

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402595

Luminaire Tested: **GAN-AF-04-LED-U-SL3-AMB-HSS**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/8/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-SL3-AMB-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3353 lumens  
Efficiency: N/A  
Efficacy: 42.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

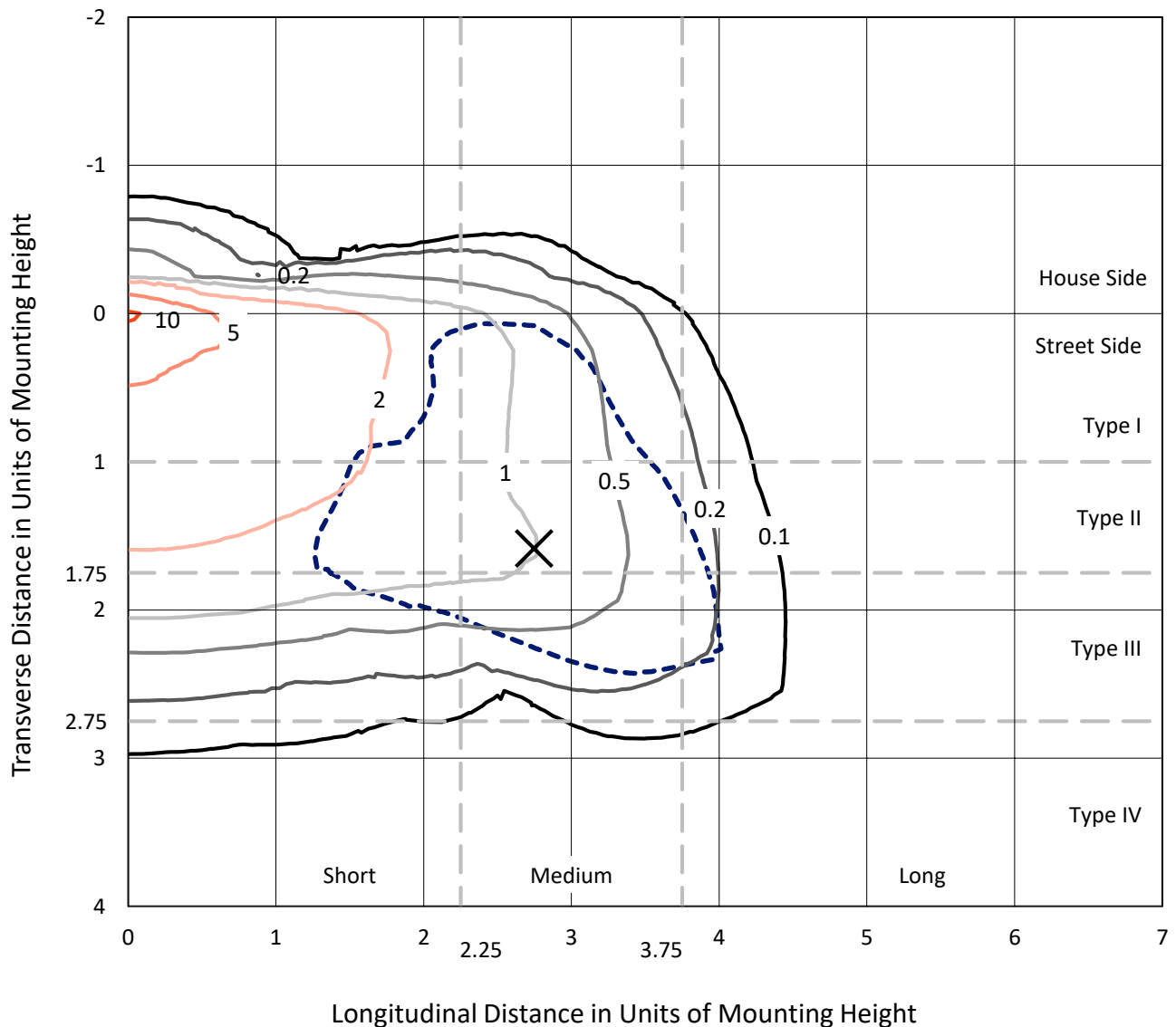
Input Watts (W): 79.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

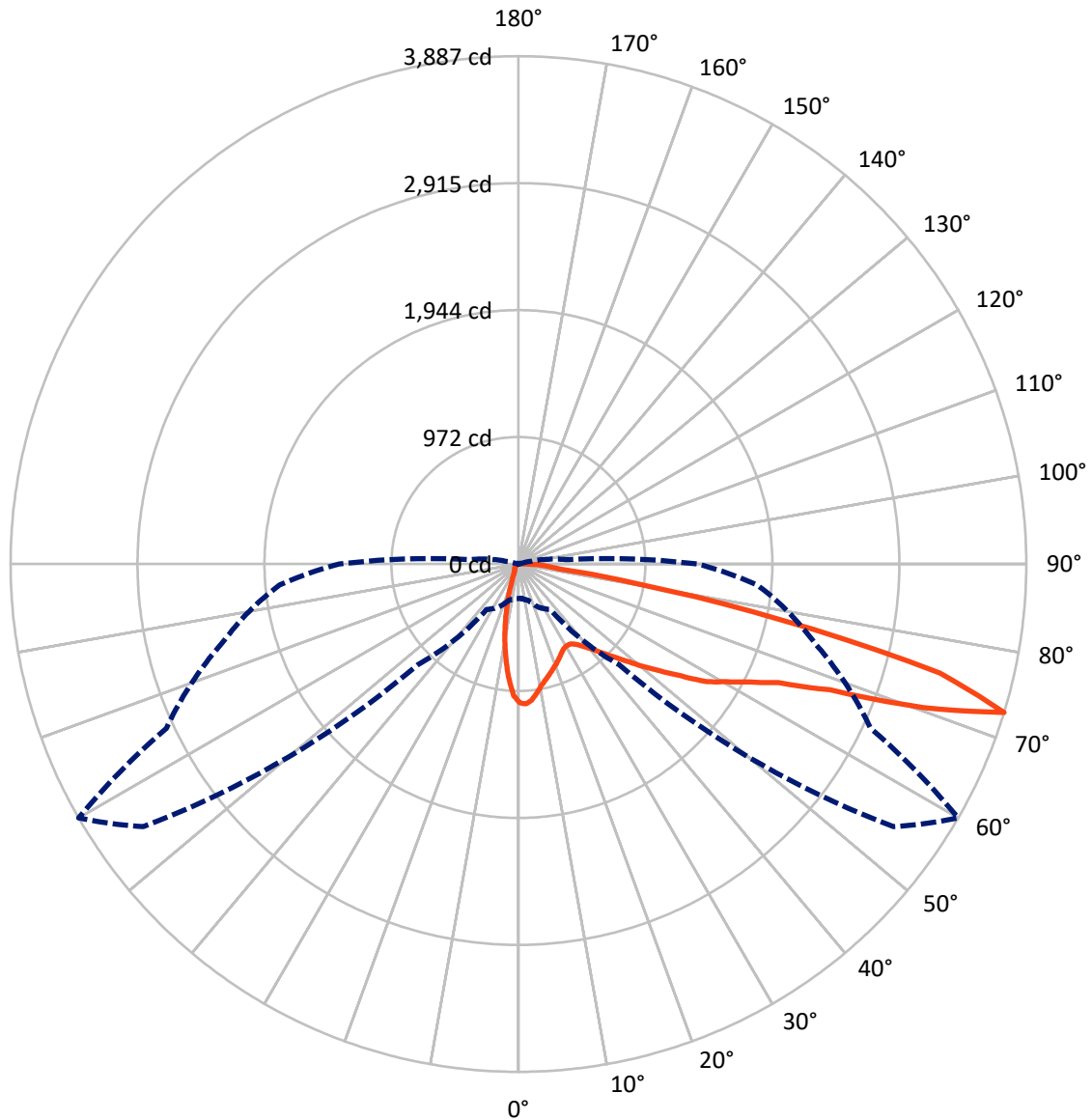
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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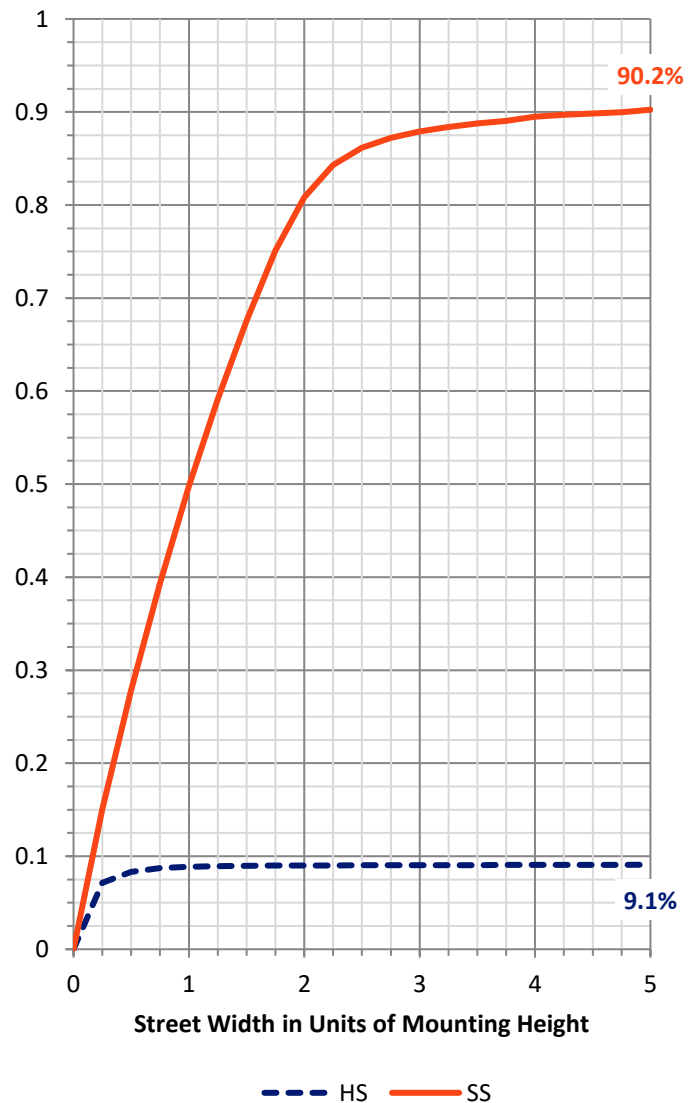
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	307.8	0.0	307.8
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	3045.2	0.0	3045.2
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	3353.0	0.0	3353.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	2.5
10°-20°	161.1	4.8
20°-30°	211.5	6.3
30°-40°	285.2	8.5
40°-50°	424.5	12.7
50°-60°	658.6	19.6
60°-70°	903.3	26.9
70°-80°	569.4	17.0
80°-90°	57.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3353.0	100.0
0°-180°	3353.0	100.0



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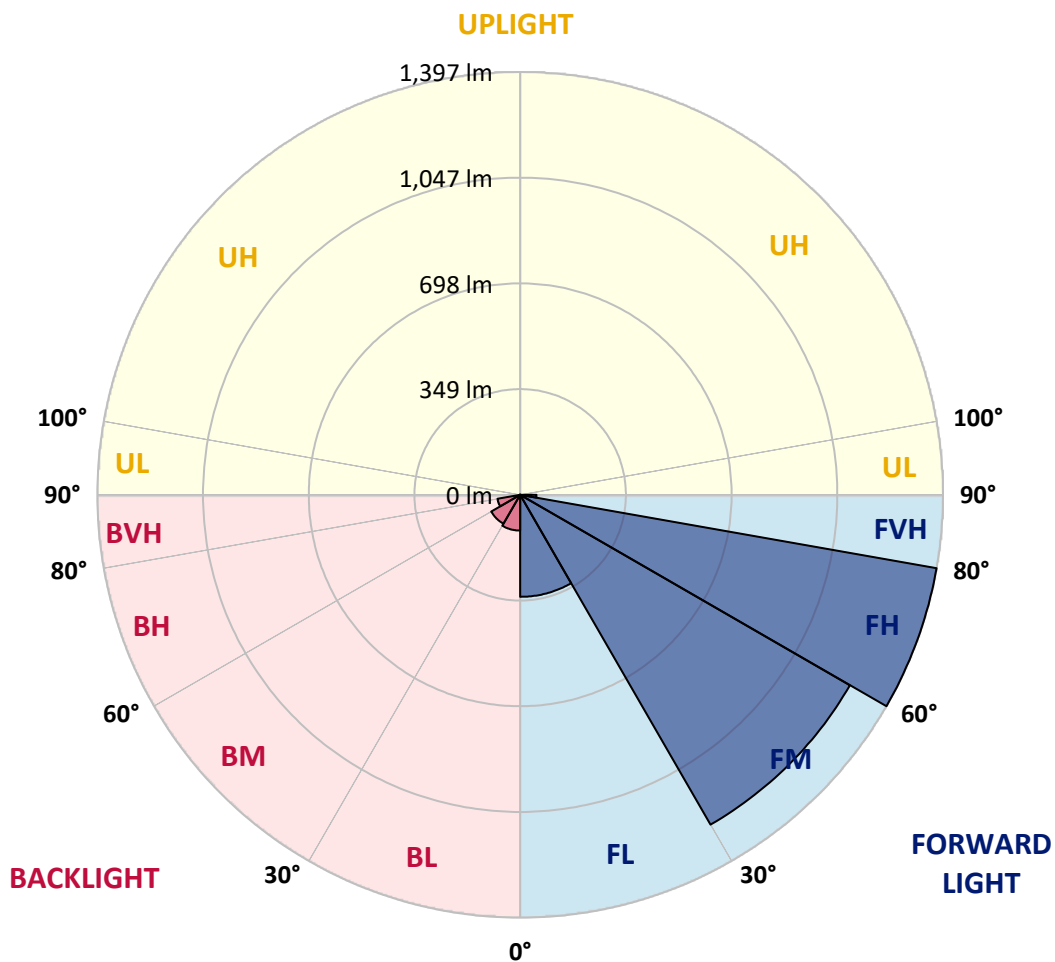
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.9	10.0			
FM	(30°-60°)	1257.7	37.5			
FH	(60°-80°)	1396.6	41.7			G1/1800
FVH	(80°-90°)	53.9	1.6			G1/100
BL	(0°-30°)	118.1	3.5	B1/500		
BM	(30°-60°)	110.5	3.3	B0/220		
BH	(60°-80°)	76.2	2.3	B0/110		G0/110
BVH	(80°-90°)	3.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1078.4	1076.6	1076.6	1078.4	1080.2	1074.8	1074.8	1073.0	1067.6	1065.8	1054.9
5°	1009.8	1015.2	1015.2	1022.4	1029.6	1033.2	1047.7	1047.7	1045.9	1045.9	1029.6
7.5°	926.7	926.7	939.3	952.0	970.0	975.4	991.7	998.9	1002.5	1011.6	997.1
10°	852.6	858.0	859.8	877.9	894.2	914.0	941.1	950.1	959.2	977.2	962.8
12.5°	796.6	800.2	805.6	821.9	841.8	863.4	896.0	912.2	921.2	946.5	935.7
15°	738.8	742.4	753.3	767.7	794.8	821.9	858.0	879.7	896.0	924.9	915.8
17.5°	700.9	702.7	704.5	717.1	744.2	780.4	825.5	847.2	868.9	905.0	901.4
20°	682.8	684.6	682.8	690.0	706.3	737.0	791.2	820.1	843.6	896.0	890.5
22.5°	677.4	679.2	675.6	673.8	681.0	708.1	756.9	789.4	821.9	894.2	886.9
25°	681.0	681.0	675.6	670.2	670.2	684.6	726.2	760.5	800.2	897.8	883.3
27.5°	695.5	693.6	688.2	677.4	668.4	673.8	706.3	737.0	780.4	903.2	883.3
30°	713.5	711.7	709.9	700.9	684.6	673.8	697.3	726.2	769.5	915.8	885.1
32.5°	733.4	735.2	735.2	728.0	709.9	686.4	702.7	729.8	771.3	933.9	890.5
35°	769.5	765.9	771.3	767.7	747.8	717.1	729.8	753.3	789.4	953.8	903.2
37.5°	803.8	803.8	811.1	812.9	794.8	756.9	773.1	796.6	818.3	986.3	926.7
40°	843.6	841.8	852.6	863.4	849.0	816.5	832.7	852.6	872.5	1035.0	966.4
42.5°	876.1	879.7	896.0	914.0	919.4	874.3	901.4	923.1	932.1	1089.2	1026.0
45°	906.8	912.2	942.9	971.8	989.9	953.8	984.5	1008.0	1017.0	1157.9	1098.3
47.5°	939.3	946.5	984.5	1029.6	1062.1	1044.1	1078.4	1107.3	1112.7	1242.8	1206.7
50°	973.6	980.9	1024.2	1085.6	1139.8	1150.7	1194.0	1228.3	1222.9	1327.7	1316.8
52.5°	1017.0	1026.0	1085.6	1154.3	1228.3	1260.8	1327.7	1358.4	1342.1	1437.9	1418.0
55°	1130.8	1134.4	1175.9	1246.4	1322.3	1387.3	1484.8	1511.9	1470.4	1519.2	1521.0
57.5°	1324.1	1324.1	1333.1	1354.8	1425.2	1521.0	1676.3	1699.8	1622.1	1602.2	1611.3
60°	1439.7	1457.7	1495.7	1537.2	1569.7	1665.5	1828.0	1828.0	1717.9	1689.0	1692.6
62.5°	1410.8	1425.2	1537.2	1631.1	1777.5	1900.3	1992.4	1988.8	1826.2	1770.2	1795.5
65°	1033.2	1058.5	1203.0	1497.5	1858.8	2225.4	2267.0	2187.5	1959.9	1893.1	1996.0
67.5°	554.6	574.4	695.5	959.2	1466.8	2447.6	2830.6	2570.5	2200.2	2144.2	2200.2
70°	364.9	361.3	370.3	471.5	802.0	2028.6	3585.6	3289.4	2599.4	2344.7	2202.0
72.5°	263.7	263.7	287.2	364.9	424.5	1089.2	3504.4	3887.3	2973.3	2350.1	1835.3
75°	177.0	180.6	218.6	294.4	395.6	357.7	2725.8	3330.9	2922.7	1764.8	957.4
77.5°	92.1	97.5	144.5	233.0	363.1	319.7	1526.4	2062.9	1717.9	811.1	213.2
80°	41.5	43.4	63.2	175.2	332.4	296.2	498.6	919.4	543.7	97.5	36.1
82.5°	19.9	19.9	27.1	86.7	274.6	254.7	307.1	327.0	128.3	30.7	25.3
85°	7.2	7.2	14.5	48.8	162.6	153.5	261.9	218.6	72.3	19.9	18.1
87.5°	3.6	3.6	5.4	14.5	43.4	124.6	180.6	144.5	30.7	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1049.5	1044.1	1029.6	1017.0	1000.7	979.1	975.4	953.8	935.7	933.9	928.5
5°	1020.6	1004.3	968.2	915.8	867.1	827.3	784.0	756.9	742.4	726.2	737.0
7.5°	980.9	953.8	881.5	800.2	720.7	652.1	585.3	536.5	516.6	487.7	493.1
10°	939.3	901.4	796.6	673.8	570.8	469.7	382.9	310.7	272.8	260.1	260.1
12.5°	910.4	856.2	709.9	556.4	420.9	290.8	211.3	153.5	115.6	103.0	103.0
15°	881.5	814.7	630.4	444.4	278.2	168.0	101.2	86.7	84.9	84.9	84.9
17.5°	856.2	765.9	547.3	339.6	182.4	93.9	83.1	81.3	79.5	79.5	79.5
20°	830.9	722.5	476.9	243.9	101.2	79.5	75.9	75.9	75.9	75.9	74.1
22.5°	807.4	684.6	401.0	168.0	77.7	72.3	70.4	70.4	70.4	68.6	68.6
25°	789.4	650.3	332.4	106.6	68.6	66.8	65.0	63.2	61.4	61.4	61.4
27.5°	771.3	617.8	260.1	74.1	63.2	59.6	57.8	56.0	52.4	52.4	50.6
30°	758.7	585.3	207.7	63.2	57.8	54.2	50.6	47.0	43.4	41.5	41.5
32.5°	751.4	560.0	155.3	57.8	52.4	47.0	43.4	39.7	36.1	32.5	32.5
35°	746.0	534.7	106.6	52.4	47.0	41.5	37.9	32.5	27.1	25.3	25.3
37.5°	755.1	516.6	72.3	48.8	43.4	37.9	30.7	27.1	23.5	21.7	21.7
40°	774.9	502.2	57.8	45.2	39.7	32.5	27.1	21.7	18.1	16.3	16.3
42.5°	809.3	496.8	50.6	43.4	36.1	28.9	21.7	18.1	16.3	14.5	14.5
45°	872.5	494.9	47.0	39.7	32.5	23.5	18.1	14.5	12.6	10.8	10.8
47.5°	942.9	498.6	45.2	37.9	28.9	21.7	16.3	12.6	10.8	9.0	9.0
50°	1029.6	513.0	41.5	34.3	27.1	18.1	12.6	10.8	7.2	7.2	7.2
52.5°	1112.7	527.5	39.7	32.5	23.5	16.3	10.8	7.2	7.2	5.4	5.4
55°	1194.0	560.0	36.1	32.5	21.7	12.6	9.0	7.2	5.4	3.6	3.6
57.5°	1275.3	583.5	34.3	28.9	18.1	10.8	7.2	5.4	3.6	3.6	3.6
60°	1358.4	605.1	30.7	25.3	14.5	9.0	5.4	3.6	3.6	3.6	3.6
62.5°	1463.2	641.3	27.1	21.7	12.6	7.2	5.4	3.6	1.8	1.8	1.8
65°	1660.1	702.7	23.5	18.1	9.0	7.2	5.4	3.6	1.8	1.8	1.8
67.5°	1786.5	693.6	19.9	14.5	9.0	5.4	3.6	3.6	1.8	1.8	1.8
70°	1761.2	626.8	16.3	12.6	7.2	5.4	3.6	3.6	1.8	1.8	1.8
72.5°	1369.2	381.1	14.5	10.8	7.2	5.4	3.6	3.6	1.8	1.8	1.8
75°	625.0	84.9	12.6	9.0	5.4	5.4	3.6	3.6	1.8	1.8	1.8
77.5°	110.2	21.7	10.8	7.2	7.2	5.4	5.4	3.6	1.8	1.8	1.8
80°	28.9	14.5	10.8	7.2	7.2	9.0	7.2	5.4	1.8	1.8	1.8
82.5°	19.9	10.8	10.8	9.0	9.0	10.8	9.0	5.4	1.8	1.8	1.8
85°	14.5	9.0	10.8	10.8	7.2	9.0	9.0	5.4	1.8	1.8	1.8
87.5°	7.2	3.6	3.6	3.6	3.6	5.4	5.4	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)