

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: P402589

Luminaire Tested: **GAN-AF-03-LED-U-SL4-AMB-HSS**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/8/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-SL4-AMB-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2593 lumens  
Efficiency: N/A  
Efficacy: 42.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 61.1  
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

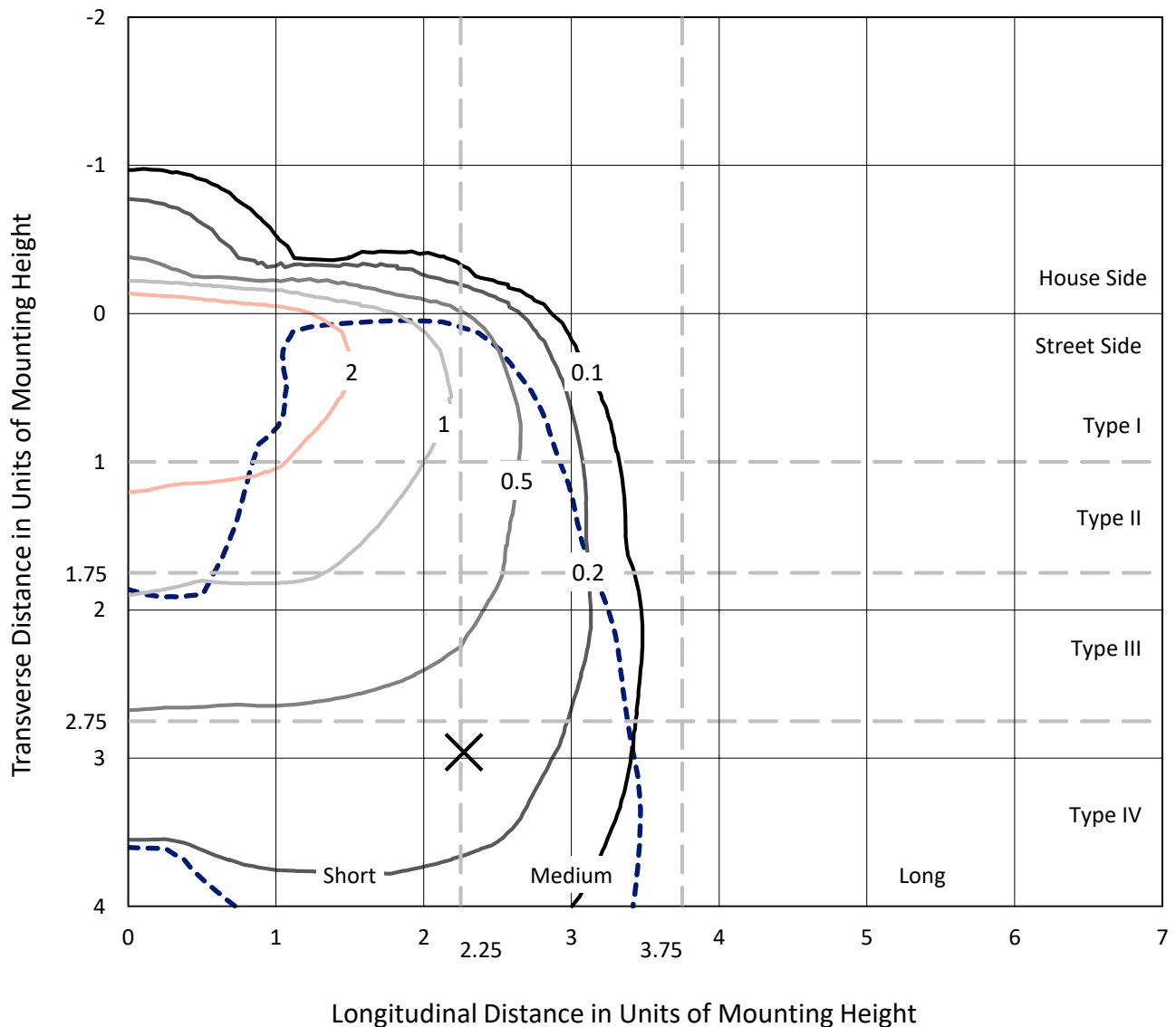


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### Iso-Footcandle Lines of Horizontal Illumination

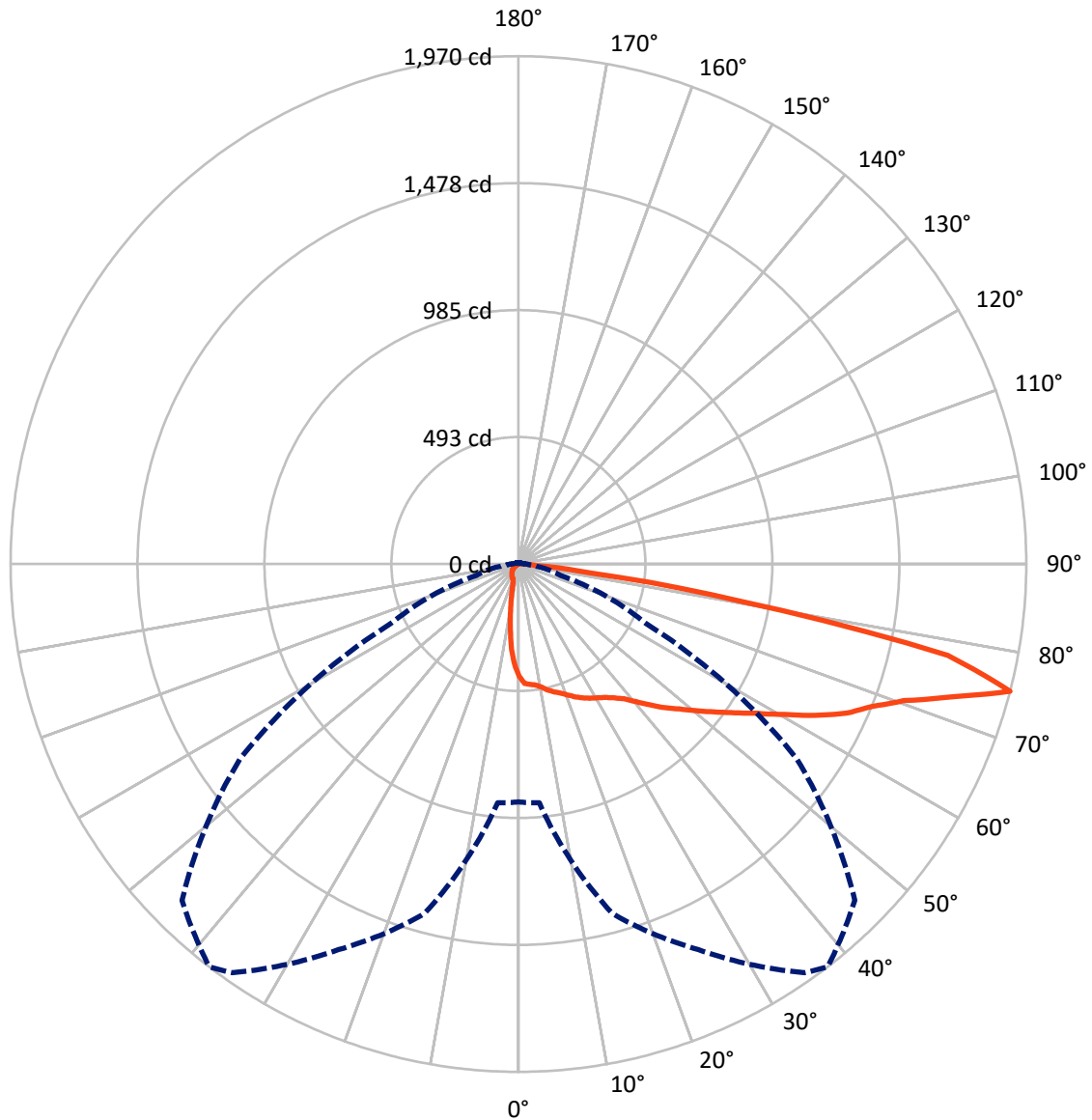
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical



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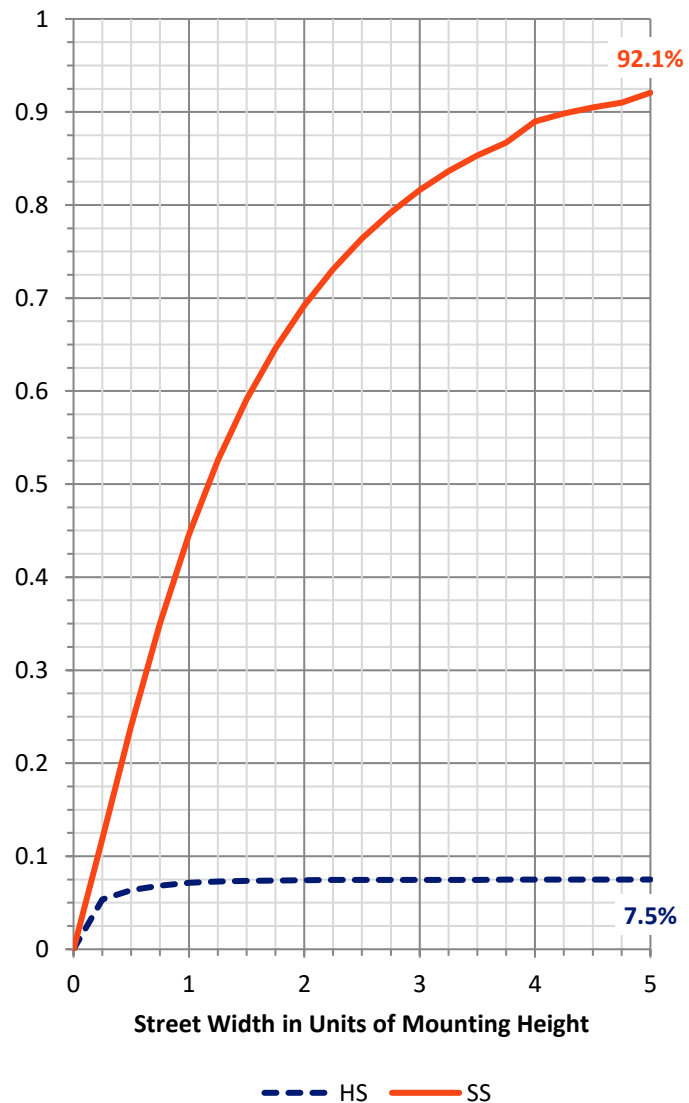
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	196.0	0.0	196.0
	% Fixture	7.6	0.0	7.6
<b>Street Side</b>	Lumens	2397.0	0.0	2397.0
	% Fixture	92.4	0.0	92.4
<b>Total</b>	Lumens	2593.0	0.0	2593.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.0	1.4
10°-20°	93.7	3.6
20°-30°	153.3	5.9
30°-40°	227.8	8.8
40°-50°	340.9	13.1
50°-60°	489.9	18.9
60°-70°	656.5	25.3
70°-80°	531.8	20.5
80°-90°	62.2	2.4
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°	2593.0	100.0
0°-180°	2593.0	100.0

**Coefficient of Utilization**



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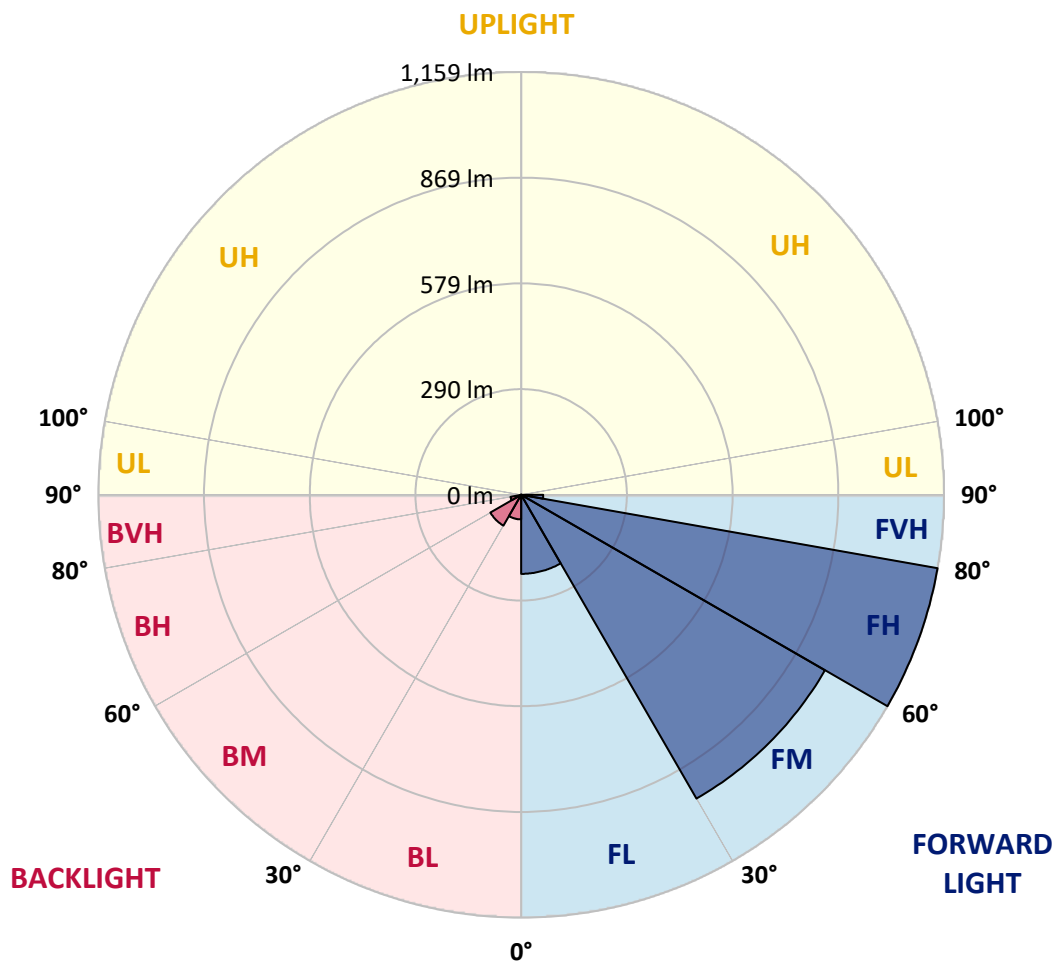
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.6	8.4			
FM (30°-60°)	961.2	37.1			
FH (60°-80°)	1158.8	44.7			G1/1800
FVH (80°-90°)	60.4	2.3			G1/100
BL (0°-30°)	67.3	2.6	B0/110		
BM (30°-60°)	97.3	3.8	B0/220		
BH (60°-80°)	29.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0
2.5°	469.4	467.9	467.9	465.0	463.6	463.6	457.8	456.3	450.5	444.7	437.5
5°	470.8	470.8	469.4	470.8	469.4	469.4	466.5	465.0	459.2	447.6	434.6
7.5°	479.5	478.0	476.6	476.6	473.7	473.7	466.5	463.6	457.8	450.5	431.7
10°	479.5	479.5	482.4	485.3	485.3	485.3	478.0	469.4	460.7	453.4	431.7
12.5°	478.0	478.0	482.4	492.5	499.8	501.2	496.9	485.3	470.8	457.8	437.5
15°	476.6	478.0	483.8	498.3	511.4	514.3	512.8	504.1	485.3	466.5	444.7
17.5°	479.5	482.4	489.6	509.9	524.4	525.9	527.3	521.5	501.2	478.0	456.3
20°	483.8	485.3	501.2	525.9	540.3	541.8	540.3	531.6	514.3	492.5	469.4
22.5°	491.1	494.0	514.3	541.8	557.7	559.2	554.8	540.3	521.5	504.1	483.8
25°	505.6	508.5	533.1	560.6	572.2	575.1	570.8	553.4	528.8	517.2	499.8
27.5°	523.0	527.3	553.4	579.5	586.7	589.6	585.2	565.0	538.9	534.5	520.1
30°	549.0	551.9	576.6	598.3	601.2	602.6	599.7	576.6	553.4	553.4	540.3
32.5°	580.9	585.2	601.2	617.1	615.7	617.1	615.7	591.0	570.8	582.4	565.0
35°	618.6	614.2	633.1	640.3	634.5	637.4	638.8	614.2	596.8	620.0	598.3
37.5°	647.5	647.5	657.7	664.9	660.6	663.5	667.8	644.6	633.1	673.6	649.0
40°	672.2	672.2	679.4	693.9	695.3	701.1	709.8	682.3	682.3	735.9	708.4
42.5°	691.0	693.9	699.7	718.5	737.4	747.5	756.2	728.7	741.7	815.6	786.6
45°	709.8	712.7	715.6	743.1	780.8	795.3	812.7	786.6	809.8	899.6	867.7
47.5°	733.0	733.0	731.6	775.0	821.4	840.2	870.6	848.9	890.9	1002.5	953.2
50°	762.0	759.1	746.0	808.3	870.6	893.8	940.2	918.4	982.2	1109.7	1016.9
52.5°	795.3	788.1	767.8	843.1	924.2	953.2	1012.6	998.1	1077.8	1195.1	1053.2
55°	837.3	825.7	798.2	885.1	989.4	1018.4	1087.9	1096.6	1169.0	1244.4	1090.8
57.5°	890.9	869.2	838.8	937.3	1064.7	1092.3	1173.4	1192.2	1229.9	1292.2	1138.6
60°	944.5	921.3	893.8	1008.2	1147.3	1185.0	1264.7	1271.9	1279.1	1358.8	1190.8
62.5°	992.3	979.3	963.3	1087.9	1260.3	1293.6	1342.9	1332.7	1341.4	1437.0	1232.8
65°	1053.2	1040.1	1037.2	1179.2	1367.5	1396.5	1402.3	1406.6	1438.5	1513.8	1254.5
67.5°	1105.3	1101.0	1127.0	1287.8	1464.6	1476.2	1497.9	1522.5	1539.9	1548.6	1109.7
70°	1179.2	1171.9	1229.9	1396.5	1561.6	1586.3	1663.0	1687.7	1567.4	1269.0	679.4
72.5°	1186.4	1199.5	1357.4	1509.5	1706.5	1760.1	1855.7	1723.9	1218.3	680.9	211.5
75°	922.8	930.0	1402.3	1650.0	1935.4	1970.1	1845.6	1318.3	544.7	168.0	47.8
77.5°	514.3	541.8	937.3	1531.2	1758.6	1703.6	1261.8	582.4	140.5	37.7	24.6
80°	376.6	389.7	452.0	876.4	995.2	875.0	525.9	221.6	76.8	26.1	17.4
82.5°	111.5	120.2	233.2	282.5	352.0	279.6	157.9	169.5	49.3	18.8	14.5
85°	30.4	31.9	79.7	111.5	101.4	65.2	57.9	146.3	20.3	13.0	11.6
87.5°	14.5	14.5	24.6	49.3	42.0	34.8	47.8	85.5	4.3	4.3	2.9
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°	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0
2.5°	433.1	430.2	418.7	412.9	407.1	396.9	391.1	386.8	385.3	382.4	383.9
5°	425.9	415.8	396.9	381.0	362.2	341.9	330.3	317.3	304.2	301.3	299.9
7.5°	420.1	405.6	376.6	346.2	314.4	279.6	247.7	227.4	207.2	204.3	202.8
10°	417.2	396.9	354.9	310.0	257.9	210.1	175.3	152.1	137.6	130.4	127.5
12.5°	417.2	392.6	337.5	273.8	207.2	155.0	120.2	97.1	86.9	82.6	81.1
15°	420.1	389.7	317.3	231.8	162.2	110.1	84.0	72.4	68.1	66.6	68.1
17.5°	427.3	389.7	298.4	195.6	123.1	81.1	66.6	65.2	63.7	63.7	63.7
20°	437.5	392.6	278.1	163.7	91.3	66.6	62.3	62.3	62.3	62.3	62.3
22.5°	449.1	394.0	255.0	133.3	73.9	60.8	59.4	59.4	59.4	59.4	59.4
25°	460.7	396.9	230.3	104.3	60.8	57.9	56.5	57.9	57.9	57.9	57.9
27.5°	475.2	399.8	205.7	82.6	56.5	55.0	55.0	55.0	55.0	55.0	55.0
30°	488.2	399.8	182.5	68.1	53.6	52.2	52.2	52.2	52.2	52.2	52.2
32.5°	504.1	398.4	157.9	56.5	50.7	49.3	47.8	49.3	49.3	49.3	47.8
35°	527.3	398.4	130.4	52.2	47.8	46.4	44.9	44.9	44.9	44.9	44.9
37.5°	557.7	404.2	102.9	47.8	43.5	42.0	42.0	42.0	40.6	40.6	40.6
40°	602.6	414.3	82.6	44.9	40.6	39.1	37.7	37.7	36.2	34.8	34.8
42.5°	656.2	425.9	68.1	42.0	37.7	36.2	34.8	33.3	31.9	30.4	30.4
45°	709.8	434.6	53.6	39.1	34.8	33.3	31.9	30.4	27.5	26.1	24.6
47.5°	766.3	434.6	43.5	36.2	33.3	30.4	29.0	26.1	23.2	20.3	20.3
50°	799.6	418.7	39.1	33.3	30.4	27.5	26.1	21.7	18.8	15.9	15.9
52.5°	818.5	396.9	36.2	30.4	29.0	26.1	21.7	18.8	14.5	11.6	11.6
55°	834.4	386.8	33.3	29.0	26.1	23.2	18.8	14.5	10.1	8.7	8.7
57.5°	854.7	370.9	30.4	26.1	23.2	20.3	15.9	11.6	7.2	5.8	5.8
60°	872.1	349.1	27.5	24.6	21.7	17.4	13.0	8.7	4.3	2.9	2.9
62.5°	880.8	315.8	24.6	21.7	18.8	14.5	10.1	5.8	2.9	1.4	1.4
65°	856.1	265.1	23.2	18.8	15.9	11.6	7.2	2.9	1.4	0.0	0.0
67.5°	699.7	170.9	18.8	15.9	13.0	8.7	5.8	2.9	1.4	0.0	0.0
70°	359.3	72.4	15.9	13.0	11.6	7.2	4.3	1.4	0.0	0.0	0.0
72.5°	94.2	26.1	13.0	11.6	10.1	7.2	2.9	1.4	0.0	0.0	0.0
75°	29.0	17.4	10.1	8.7	8.7	5.8	2.9	1.4	0.0	0.0	0.0
77.5°	20.3	13.0	8.7	7.2	7.2	5.8	2.9	1.4	0.0	0.0	0.0
80°	15.9	11.6	7.2	5.8	7.2	7.2	2.9	1.4	0.0	0.0	0.0
82.5°	13.0	10.1	5.8	5.8	7.2	7.2	4.3	1.4	0.0	0.0	0.0
85°	10.1	7.2	5.8	5.8	7.2	5.8	2.9	1.4	0.0	0.0	0.0
87.5°	2.9	2.9	1.4	1.4	1.4	2.9	2.9	1.4	0.0	0.0	0.0
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)