

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: INVUE

Report Number: P401107

Luminaire Tested: **ENV-SA1B-735-U-SL2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-735-U-SL2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2603 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.4  
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: 25 FT

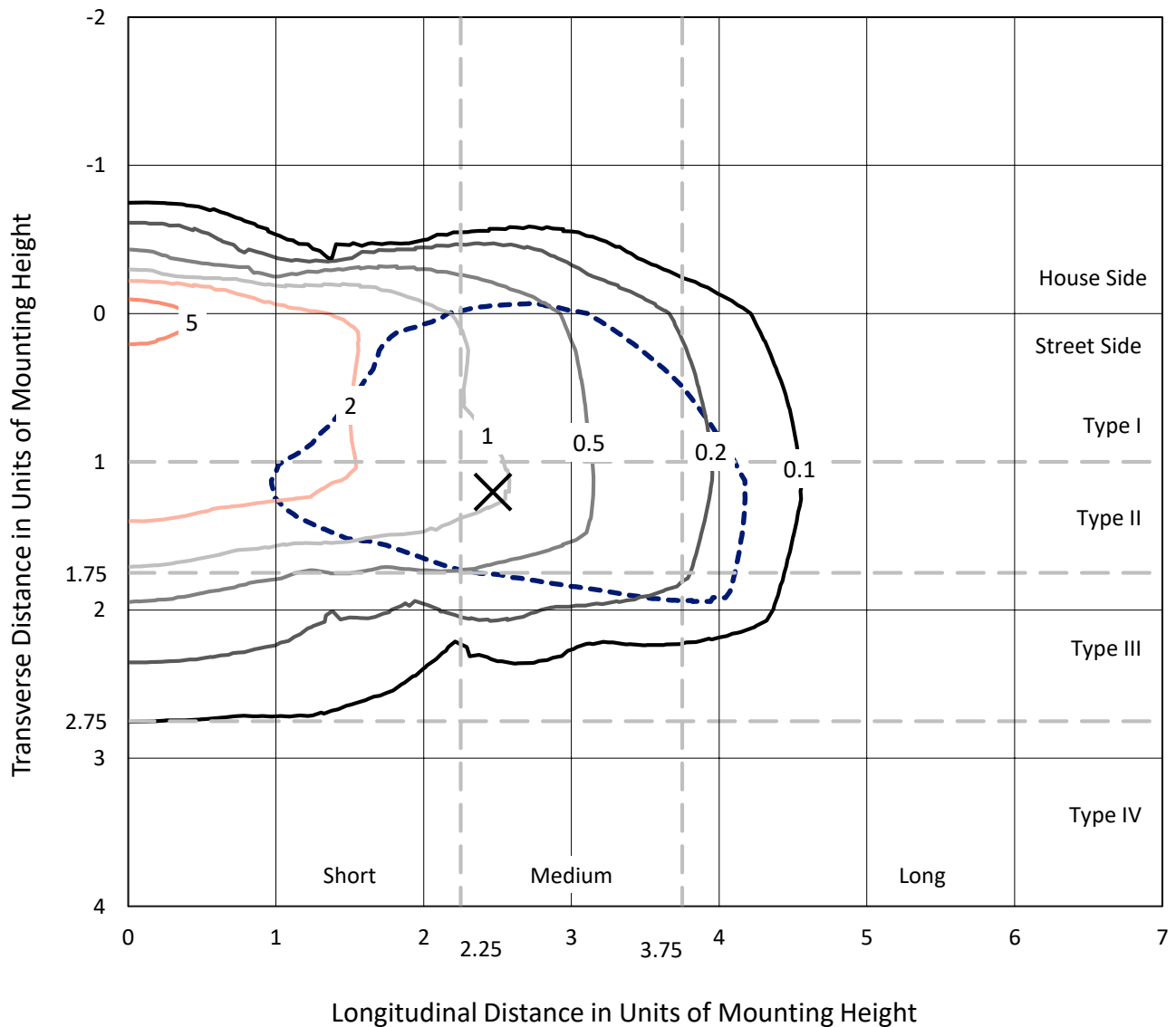


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### Iso-Footcandle Lines of Horizontal Illumination

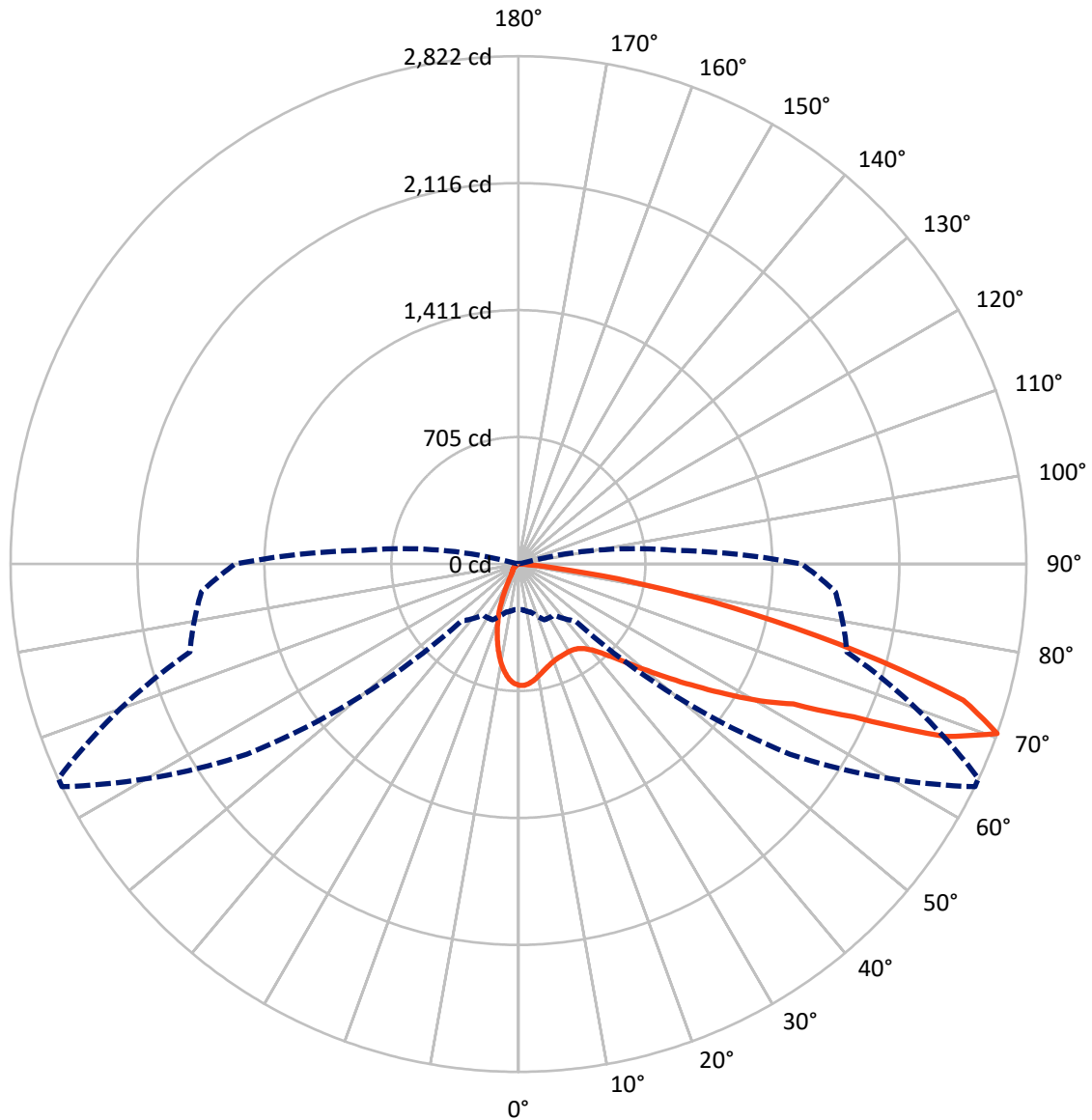
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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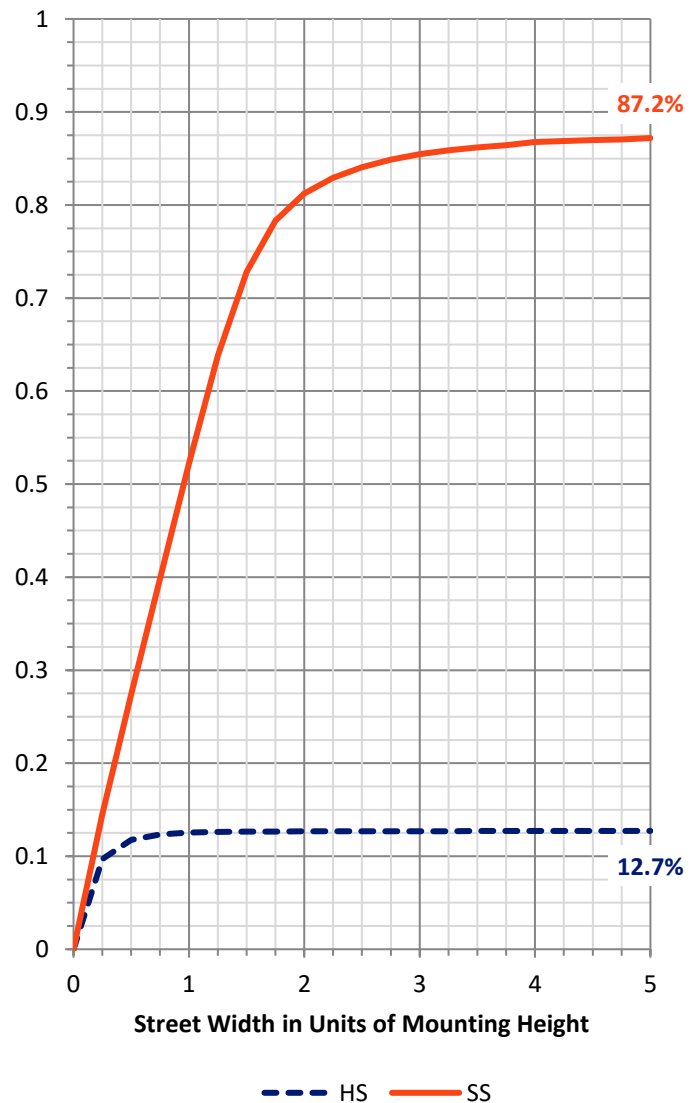
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	334.4	0.0	334.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2268.6	0.0	2268.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2603.0	0.0	2603.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	2.2
10°-20°	126.0	4.8
20°-30°	173.5	6.7
30°-40°	239.0	9.2
40°-50°	356.2	13.7
50°-60°	562.6	21.6
60°-70°	637.5	24.5
70°-80°	418.6	16.1
80°-90°	32.8	1.3
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°	2603.0	100.0
0°-180°	2603.0	100.0



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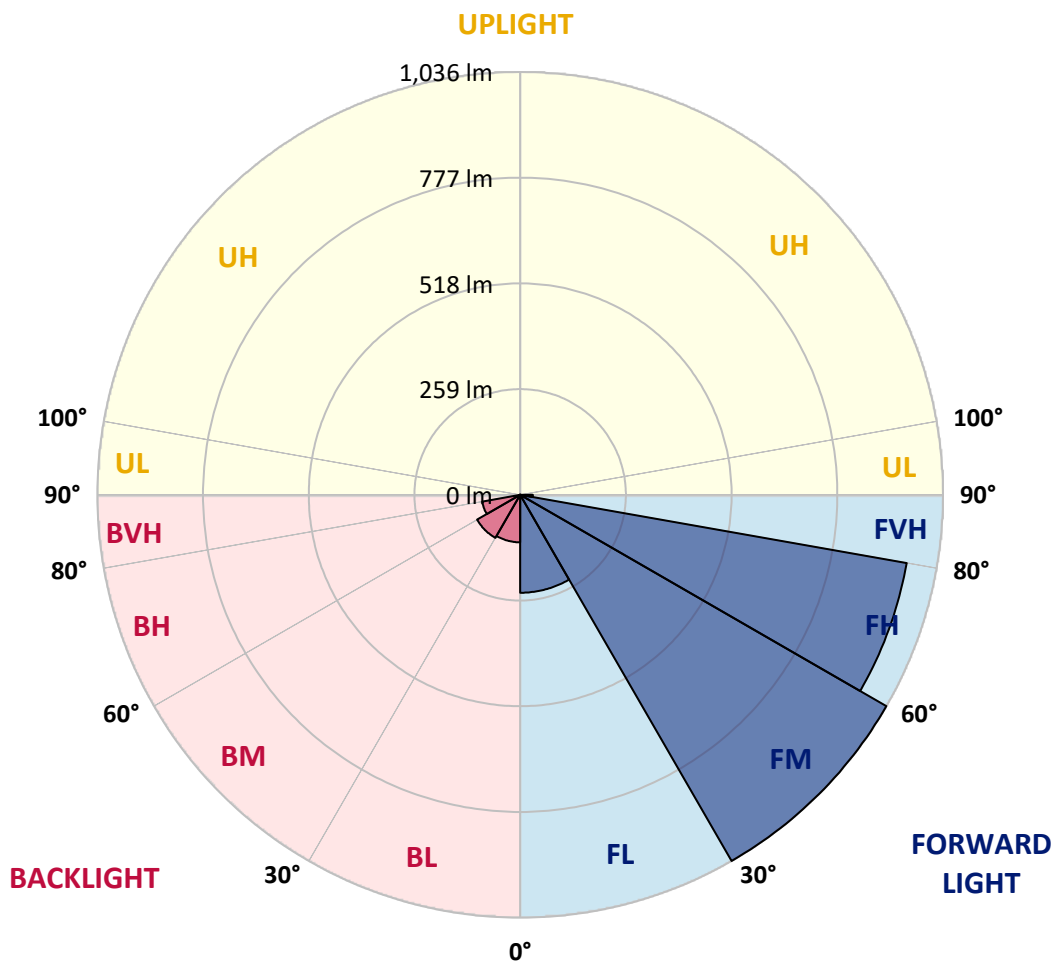
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.9	9.2			
FM	(30°-60°)	1036.0	39.8			
FH	(60°-80°)	961.7	36.9			G1/1800
FVH	(80°-90°)	31.0	1.2			G1/100
BL	(0°-30°)	116.4	4.5	B1/500		
BM	(30°-60°)	121.8	4.7	B0/220		
BH	(60°-80°)	94.4	3.6	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: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8
2.5°	655.1	655.1	658.3	661.5	663.3	668.3	672.0	674.7	674.7	676.6	673.4
5°	611.6	611.6	614.3	622.1	630.3	640.9	652.8	664.7	667.0	675.6	675.2
7.5°	571.3	574.9	579.5	587.3	596.0	611.6	628.0	648.6	650.9	672.0	676.6
10°	543.4	545.6	548.4	557.1	569.9	587.8	605.6	629.9	634.0	665.6	676.6
12.5°	520.9	521.4	525.5	535.1	547.5	564.9	585.0	611.6	616.6	654.1	674.7
15°	504.9	504.4	509.0	518.2	530.1	547.9	567.6	595.5	601.0	644.5	674.3
17.5°	495.3	495.8	499.4	506.3	517.7	534.7	554.8	582.3	587.8	636.7	676.6
20°	495.3	495.3	497.6	500.8	509.5	524.6	544.3	572.7	578.1	631.7	679.8
22.5°	504.9	504.0	505.8	503.1	507.2	517.7	537.9	566.2	572.2	629.4	684.8
25°	522.3	520.5	521.8	515.9	511.3	515.9	533.7	563.5	569.9	629.9	689.4
27.5°	546.6	546.6	543.8	535.6	524.1	519.1	533.3	561.7	568.1	629.9	692.6
30°	580.4	579.1	574.9	566.7	548.9	531.9	537.9	561.7	568.1	630.3	693.5
32.5°	614.3	615.2	617.5	609.3	585.0	553.9	548.9	565.8	571.3	629.9	692.1
35°	648.6	649.1	659.2	660.1	629.0	589.1	567.6	576.8	580.4	634.5	693.0
37.5°	678.9	681.1	700.8	710.4	684.8	634.5	597.4	597.4	599.2	646.8	698.5
40°	712.7	718.7	742.5	764.0	753.9	692.6	640.9	627.6	628.5	669.2	710.9
42.5°	752.1	759.4	790.5	821.7	821.2	764.0	695.8	675.6	676.6	708.2	736.1
45°	802.0	807.0	846.4	885.3	893.5	842.7	764.9	738.4	739.3	767.2	785.1
47.5°	862.9	868.8	906.8	953.5	974.6	937.5	854.6	825.8	823.0	842.7	855.5
50°	942.5	954.0	976.4	1021.3	1072.1	1047.3	959.9	931.1	927.4	943.0	947.1
52.5°	1018.5	1029.0	1038.2	1079.4	1177.8	1183.8	1089.0	1057.4	1053.8	1057.4	1062.5
55°	1030.0	1035.9	1042.8	1098.6	1263.4	1357.2	1235.9	1198.4	1187.9	1181.0	1198.0
57.5°	938.9	935.2	958.1	1034.1	1277.6	1549.0	1434.6	1361.8	1351.8	1313.8	1296.8
60°	743.4	738.4	759.9	863.8	1198.0	1644.3	1710.2	1542.6	1517.9	1390.7	1374.2
62.5°	522.3	516.3	544.3	605.6	929.2	1625.5	2021.0	1713.8	1664.9	1458.9	1436.4
65°	402.4	399.6	414.7	428.5	567.2	1408.1	2192.2	2048.0	1946.8	1533.0	1504.2
67.5°	315.4	319.1	337.8	377.6	366.2	877.5	2176.2	2557.9	2456.8	1669.4	1651.1
70°	253.6	254.5	277.9	341.5	345.6	446.8	1842.5	2821.6	2820.2	1889.6	1767.9
72.5°	153.3	157.5	195.5	295.3	348.8	341.9	1238.7	2585.4	2621.1	1940.9	1594.4
75°	73.7	77.8	101.2	198.2	346.5	332.8	670.2	1957.4	2003.1	1740.4	1292.7
77.5°	27.5	31.1	46.7	97.0	256.8	304.9	352.5	1319.7	1355.9	1273.9	875.7
80°	8.7	10.1	18.3	44.4	130.5	251.8	227.0	744.3	768.6	557.5	294.3
82.5°	0.9	1.4	5.0	15.1	50.4	128.2	133.2	280.1	292.5	108.9	59.5
85°	0.0	0.0	0.0	0.0	0.9	0.9	33.0	53.6	43.9	10.5	17.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	1.4	1.4	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8
2.5°	672.9	672.9	669.7	664.7	658.3	649.1	646.8	639.5	639.5	633.5	632.6
5°	673.8	671.1	660.5	645.0	623.5	600.1	585.5	569.4	555.7	547.0	547.9
7.5°	673.8	667.9	646.8	612.5	572.2	531.9	501.2	465.5	449.1	438.1	443.1
10°	672.0	661.9	625.3	573.1	509.5	453.6	403.3	362.1	333.7	321.8	311.7
12.5°	667.9	653.2	598.3	524.1	442.7	369.4	299.8	245.8	208.3	189.5	187.2
15°	664.2	644.1	566.7	470.6	367.1	271.4	193.6	141.9	109.9	102.5	103.5
17.5°	663.3	635.4	536.5	413.8	293.4	180.8	111.7	90.2	85.6	83.8	83.3
20°	663.7	627.6	503.5	357.5	207.8	112.6	84.7	79.6	77.8	76.9	76.4
22.5°	665.6	618.9	471.0	298.5	141.9	82.4	75.5	72.3	70.0	68.7	68.2
25°	665.6	609.3	434.9	235.7	92.9	72.3	67.7	63.6	60.4	58.6	58.6
27.5°	664.2	598.3	397.3	179.0	73.7	64.5	59.5	54.0	49.9	47.6	47.6
30°	660.1	585.0	361.2	125.0	64.5	57.7	51.3	44.4	39.4	37.1	36.2
32.5°	654.1	570.8	319.5	87.9	58.1	50.4	43.0	35.7	31.1	28.4	28.4
35°	647.7	556.6	274.7	67.3	52.6	44.4	36.2	28.8	24.7	22.9	22.4
37.5°	644.5	541.5	230.7	58.1	47.1	38.0	29.3	23.3	20.1	18.8	18.3
40°	646.8	530.1	187.7	52.2	42.1	32.0	24.3	19.7	16.9	15.1	15.1
42.5°	660.5	523.7	146.9	47.6	37.5	27.0	20.1	16.0	13.3	11.9	11.9
45°	688.5	528.3	111.7	43.5	32.0	22.4	16.9	12.8	10.1	8.7	8.7
47.5°	735.2	546.6	84.7	39.8	27.5	18.3	13.7	10.1	7.8	6.9	6.4
50°	803.4	582.7	66.4	36.2	22.9	15.6	11.4	7.8	6.0	5.0	5.0
52.5°	901.8	645.4	56.8	32.0	18.8	12.8	9.2	6.0	4.6	3.7	3.7
55°	1022.6	725.1	51.3	28.4	15.1	10.5	7.3	4.6	3.2	2.7	2.3
57.5°	1120.6	788.3	48.1	24.7	12.8	9.2	5.5	3.7	2.7	1.8	1.8
60°	1207.1	829.0	42.6	20.6	11.0	7.3	4.6	2.7	1.8	1.4	1.4
62.5°	1277.1	855.5	35.2	16.5	9.2	6.0	3.7	2.3	1.8	1.4	1.4
65°	1356.8	877.1	28.8	12.8	7.8	5.0	3.2	1.8	1.4	1.4	1.4
67.5°	1512.9	925.1	21.5	10.1	6.0	4.1	2.7	1.8	1.4	0.9	0.9
70°	1573.8	868.8	16.9	8.2	4.6	3.7	2.7	1.8	0.9	0.9	0.9
72.5°	1339.4	650.5	13.3	6.9	4.1	3.2	2.7	1.8	1.4	1.4	0.9
75°	1062.5	439.4	10.5	5.5	4.1	3.7	2.7	2.7	2.3	1.8	1.8
77.5°	678.4	194.5	8.2	4.6	4.1	4.6	4.1	2.7	2.7	2.3	2.3
80°	202.3	46.7	6.0	3.7	3.2	3.7	4.1	2.7	1.8	1.4	1.4
82.5°	43.9	11.0	3.7	1.8	2.3	1.8	2.7	2.7	1.8	1.4	1.4
85°	14.6	4.1	2.3	1.8	1.4	1.4	1.4	1.4	1.4	1.4	0.9
87.5°	0.9	1.4	1.4	0.9	0.9	0.9	0.9	0.5	0.5	0.9	0.9
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)