

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: P401377

Luminaire Tested: **ENV-SA1C-827-U-SL2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401377  
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-SA1C-827-U-SL2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA 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: 2680 lumens  
Efficiency: N/A  
Efficacy: 80.5 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): 33.3  
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

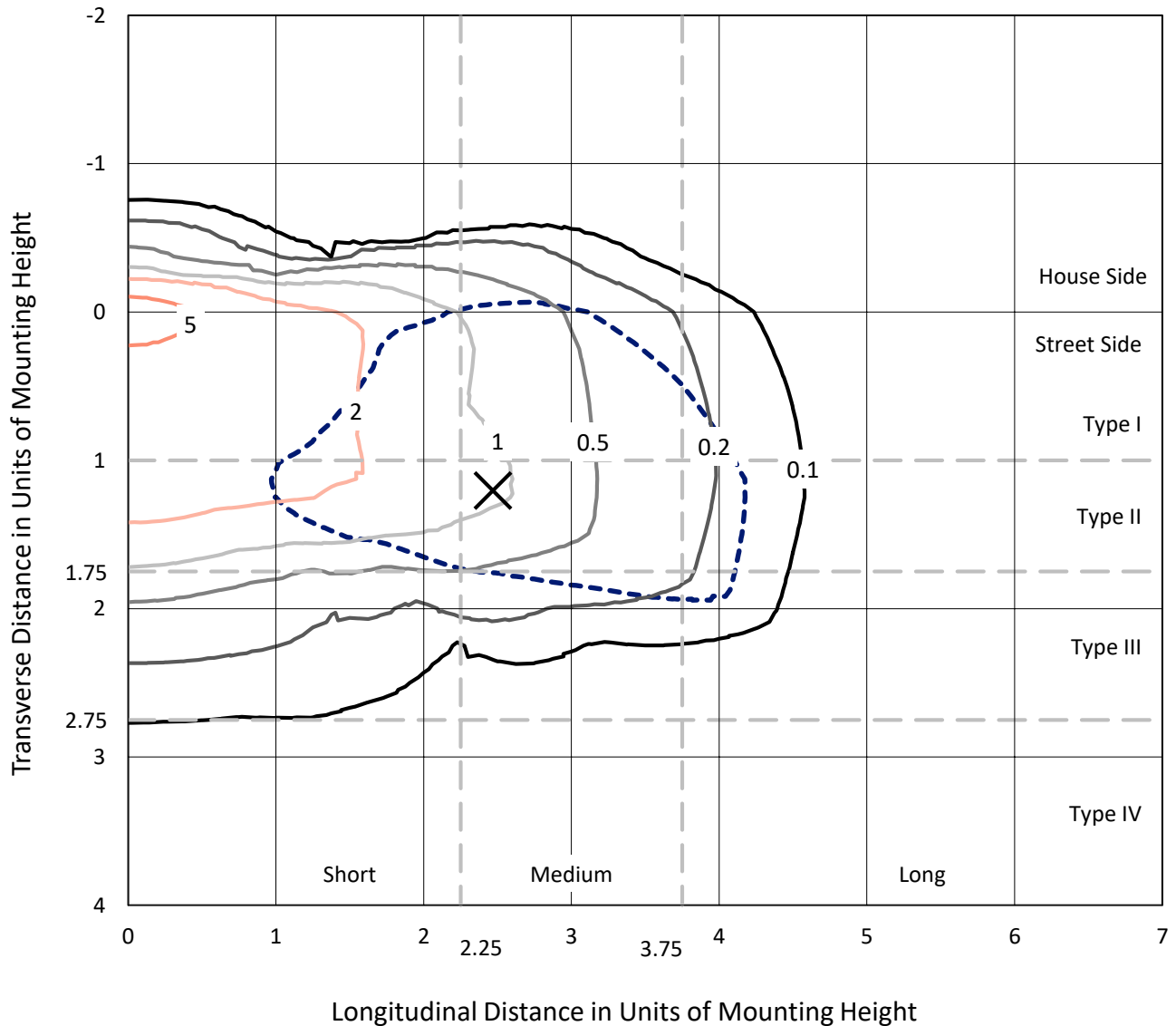


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

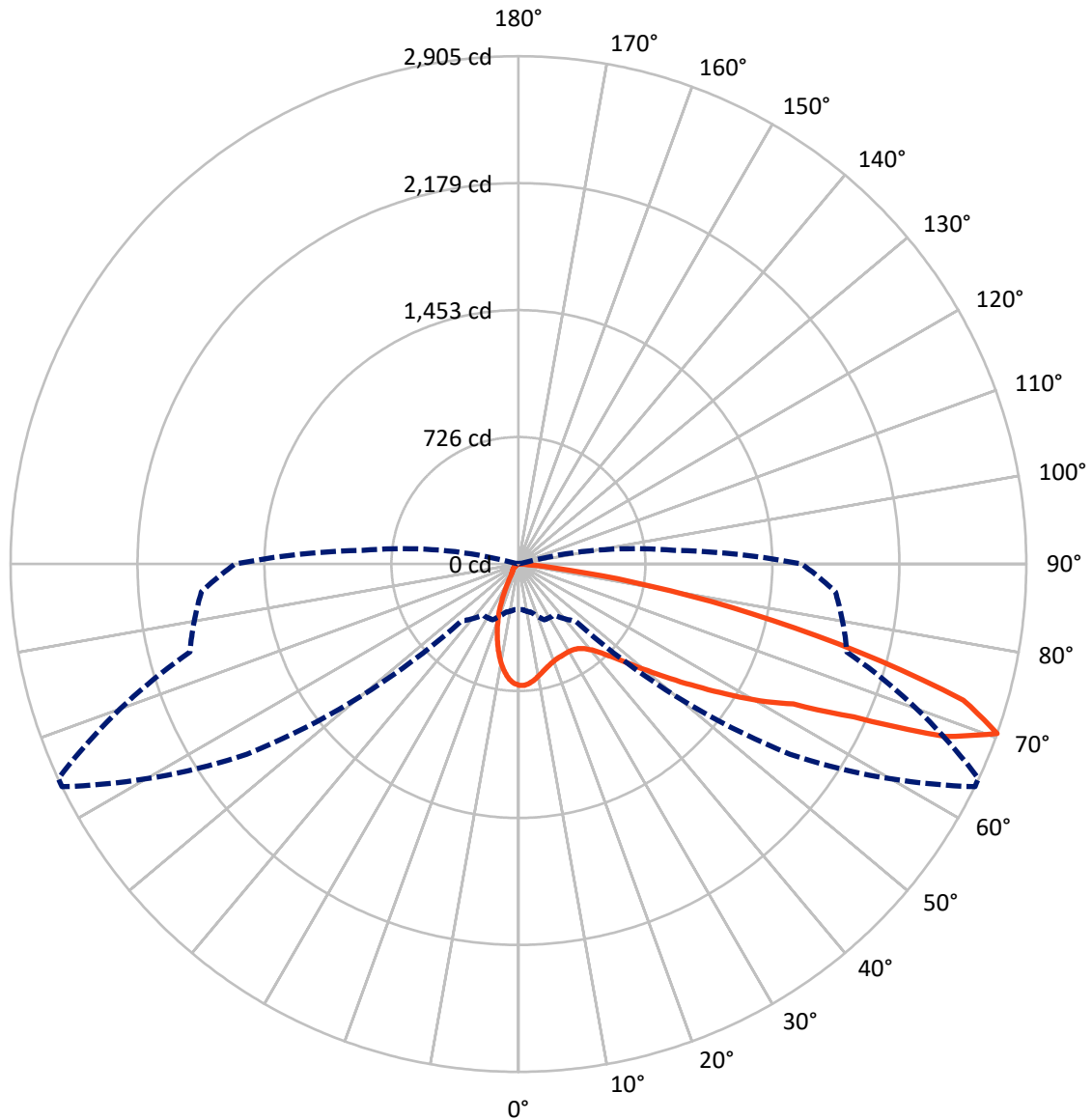


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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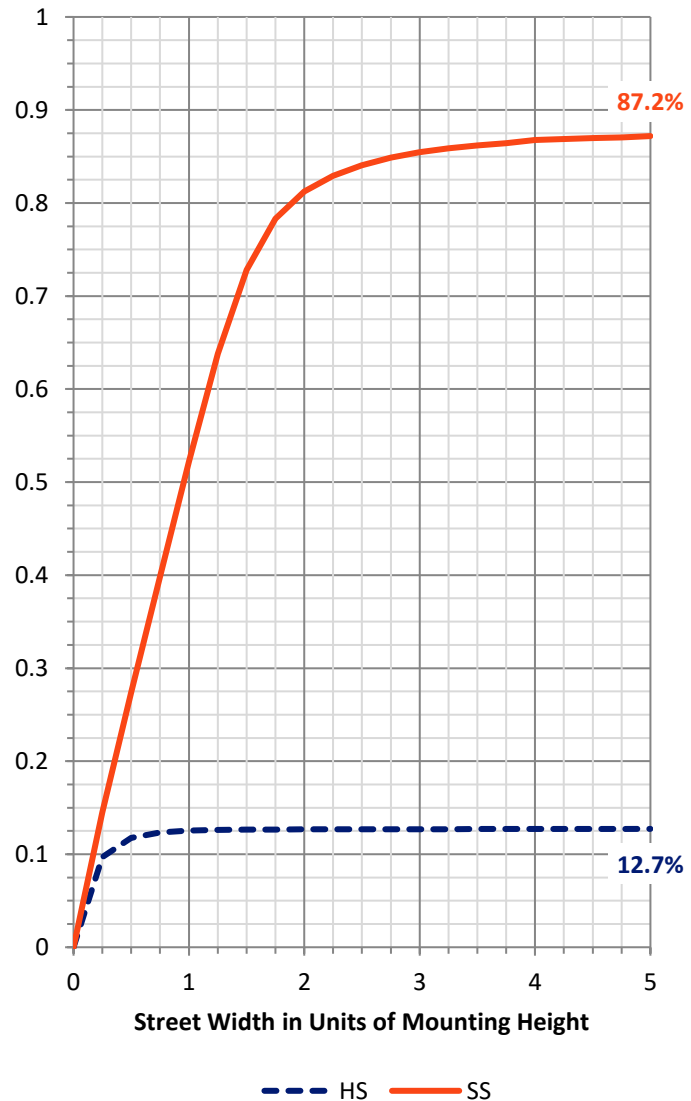
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	344.3	0.0	344.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2335.7	0.0	2335.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2680.0	0.0	2680.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	2.2
10°-20°	129.7	4.8
20°-30°	178.7	6.7
30°-40°	246.0	9.2
40°-50°	366.7	13.7
50°-60°	579.3	21.6
60°-70°	656.4	24.5
70°-80°	431.0	16.1
80°-90°	33.8	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°	2680.0	100.0
0°-180°	2680.0	100.0



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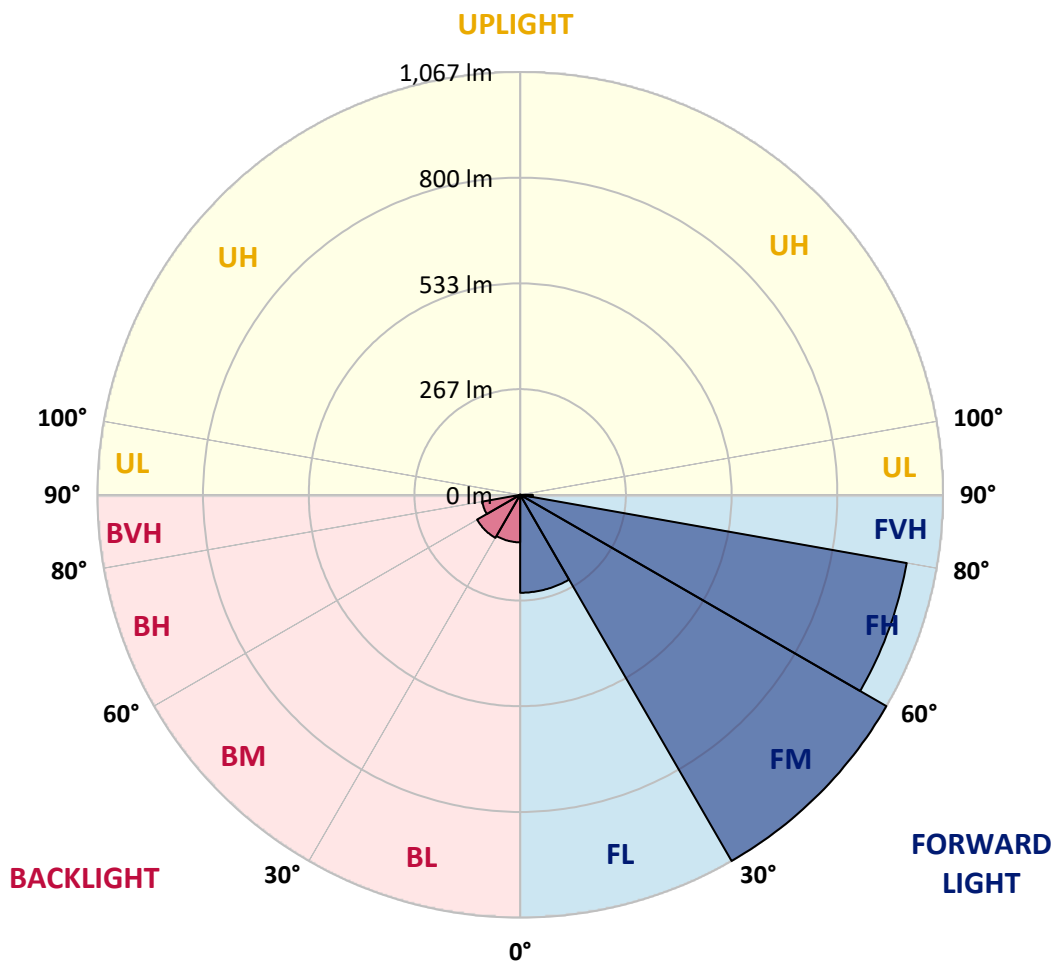
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.0	9.2			
FM (30°-60°)	1066.6	39.8			
FH (60°-80°)	990.2	36.9			G1/1800
FVH (80°-90°)	31.9	1.2			G1/100
BL (0°-30°)	119.8	4.5	B1/500		
BM (30°-60°)	125.4	4.7	B0/220		
BH (60°-80°)	97.2	3.6	B0/110		G0/110
BVH (80°-90°)	1.9	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°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	674.4	674.4	677.7	681.0	682.9	688.1	691.9	694.7	694.7	696.6	693.3
5°	629.7	629.7	632.5	640.5	649.0	659.8	672.1	684.3	686.7	695.6	695.2
7.5°	588.2	592.0	596.7	604.7	613.6	629.7	646.6	667.8	670.2	691.9	696.6
10°	559.4	561.8	564.6	573.6	586.8	605.1	623.5	648.5	652.7	685.3	696.6
12.5°	536.3	536.8	541.1	550.9	563.7	581.6	602.3	629.7	634.8	673.5	694.7
15°	519.8	519.4	524.1	533.5	545.8	564.1	584.4	613.2	618.8	663.6	694.2
17.5°	509.9	510.4	514.2	521.3	533.0	550.5	571.2	599.5	605.1	655.6	696.6
20°	509.9	509.9	512.3	515.6	524.6	540.1	560.4	589.6	595.2	650.4	699.9
22.5°	519.8	518.9	520.8	518.0	522.2	533.0	553.8	583.0	589.1	648.0	705.1
25°	537.8	535.9	537.3	531.2	526.4	531.2	549.5	580.2	586.8	648.5	709.8
27.5°	562.7	562.7	559.9	551.4	539.6	534.5	549.1	578.3	584.9	648.5	713.1
30°	597.6	596.2	592.0	583.5	565.1	547.6	553.8	578.3	584.9	649.0	714.0
32.5°	632.5	633.4	635.8	627.3	602.3	570.3	565.1	582.5	588.2	648.5	712.6
35°	667.8	668.3	678.7	679.6	647.6	606.6	584.4	593.8	597.6	653.2	713.5
37.5°	698.9	701.3	721.6	731.5	705.1	653.2	615.0	615.0	616.9	665.9	719.2
40°	733.8	739.9	764.4	786.6	776.2	713.1	659.8	646.1	647.1	689.0	731.9
42.5°	774.3	781.9	813.9	846.0	845.5	786.6	716.4	695.6	696.6	729.1	757.8
45°	825.7	830.9	871.4	911.5	920.0	867.7	787.5	760.2	761.1	789.9	808.3
47.5°	888.4	894.5	933.6	981.7	1003.4	965.2	879.9	850.2	847.4	867.7	880.9
50°	970.4	982.2	1005.3	1051.5	1103.8	1078.3	988.3	958.6	954.8	970.9	975.1
52.5°	1048.6	1059.5	1068.9	1111.3	1212.6	1218.8	1121.2	1088.7	1084.9	1088.7	1093.9
55°	1060.4	1066.5	1073.6	1131.1	1300.8	1397.4	1272.5	1233.9	1223.0	1215.9	1233.4
57.5°	966.6	962.9	986.4	1064.7	1315.4	1594.9	1477.0	1402.1	1391.7	1352.6	1335.2
60°	765.4	760.2	782.4	889.3	1233.4	1692.9	1760.8	1588.3	1562.8	1431.8	1414.8
62.5°	537.8	531.6	560.4	623.5	956.7	1673.6	2080.8	1764.5	1714.1	1502.0	1478.9
65°	414.3	411.4	427.0	441.1	583.9	1449.7	2257.0	2108.6	2004.4	1578.4	1548.7
67.5°	324.7	328.5	347.8	388.8	377.0	903.5	2240.6	2633.6	2529.5	1718.8	1700.0
70°	261.1	262.0	286.1	351.6	355.8	460.0	1897.0	2905.1	2903.7	1945.5	1820.2
72.5°	157.9	162.1	201.2	304.0	359.1	352.1	1275.3	2661.9	2698.7	1998.3	1641.5
75°	75.9	80.1	104.2	204.1	356.8	342.6	690.0	2015.3	2062.4	1791.9	1330.9
77.5°	28.3	32.0	48.1	99.9	264.4	313.9	362.9	1358.8	1396.0	1311.6	901.6
80°	9.0	10.4	18.9	45.7	134.3	259.2	233.8	766.3	791.3	574.0	303.0
82.5°	0.9	1.4	5.2	15.6	51.8	132.0	137.1	288.4	301.2	112.2	61.3
85°	0.0	0.0	0.0	0.0	0.9	0.9	33.9	55.1	45.2	10.8	17.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	1.4	1.4	1.9
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°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	692.8	692.8	689.5	684.3	677.7	668.3	665.9	658.4	658.4	652.3	651.3
5°	693.8	690.9	680.1	664.1	641.9	617.9	602.8	586.3	572.2	563.2	564.1
7.5°	693.8	687.6	665.9	630.6	589.1	547.6	516.1	479.3	462.3	451.0	456.2
10°	691.9	681.5	643.8	590.1	524.6	467.1	415.2	372.8	343.6	331.3	321.0
12.5°	687.6	672.5	616.0	539.6	455.7	380.3	308.7	253.1	214.4	195.1	192.8
15°	683.9	663.1	583.5	484.5	378.0	279.5	199.4	146.1	113.1	105.6	106.5
17.5°	682.9	654.2	552.4	426.1	302.1	186.2	115.0	92.8	88.1	86.2	85.8
20°	683.4	646.1	518.4	368.1	214.0	115.9	87.2	82.0	80.1	79.2	78.7
22.5°	685.3	637.2	485.0	307.3	146.1	84.8	77.8	74.5	72.1	70.7	70.2
25°	685.3	627.3	447.7	242.7	95.7	74.5	69.8	65.5	62.2	60.3	60.3
27.5°	683.9	616.0	409.1	184.3	75.9	66.5	61.3	55.6	51.4	49.0	49.0
30°	679.6	602.3	371.9	128.7	66.5	59.4	52.8	45.7	40.5	38.2	37.2
32.5°	673.5	587.7	329.0	90.5	59.9	51.8	44.3	36.8	32.0	29.2	29.2
35°	666.9	573.1	282.8	69.3	54.2	45.7	37.2	29.7	25.5	23.6	23.1
37.5°	663.6	557.5	237.5	59.9	48.5	39.1	30.2	24.0	20.7	19.3	18.9
40°	665.9	545.8	193.2	53.7	43.4	33.0	25.0	20.3	17.4	15.6	15.6
42.5°	680.1	539.2	151.3	49.0	38.6	27.8	20.7	16.5	13.7	12.3	12.3
45°	708.8	543.9	115.0	44.8	33.0	23.1	17.4	13.2	10.4	9.0	9.0
47.5°	756.9	562.7	87.2	41.0	28.3	18.9	14.1	10.4	8.0	7.1	6.6
50°	827.1	600.0	68.3	37.2	23.6	16.0	11.8	8.0	6.1	5.2	5.2
52.5°	928.5	664.5	58.4	33.0	19.3	13.2	9.4	6.1	4.7	3.8	3.8
55°	1052.9	746.5	52.8	29.2	15.6	10.8	7.5	4.7	3.3	2.8	2.4
57.5°	1153.7	811.6	49.5	25.5	13.2	9.4	5.7	3.8	2.8	1.9	1.9
60°	1242.8	853.5	43.8	21.2	11.3	7.5	4.7	2.8	1.9	1.4	1.4
62.5°	1314.9	880.9	36.3	17.0	9.4	6.1	3.8	2.4	1.9	1.4	1.4
65°	1396.9	903.0	29.7	13.2	8.0	5.2	3.3	1.9	1.4	1.4	1.4
67.5°	1557.6	952.5	22.2	10.4	6.1	4.2	2.8	1.9	1.4	0.9	0.9
70°	1620.3	894.5	17.4	8.5	4.7	3.8	2.8	1.9	0.9	0.9	0.9
72.5°	1379.0	669.7	13.7	7.1	4.2	3.3	2.8	1.9	1.4	1.4	0.9
75°	1093.9	452.4	10.8	5.7	4.2	3.8	2.8	2.8	2.4	1.9	1.9
77.5°	698.5	200.3	8.5	4.7	4.2	4.7	4.2	2.8	2.8	2.4	2.4
80°	208.3	48.1	6.1	3.8	3.3	3.8	4.2	2.8	1.9	1.4	1.4
82.5°	45.2	11.3	3.8	1.9	2.4	1.9	2.8	2.8	1.9	1.4	1.4
85°	15.1	4.2	2.4	1.9	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)