

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: P401379

Luminaire Tested: **ENT-SA1C-827-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-827-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS 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: 2779 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-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

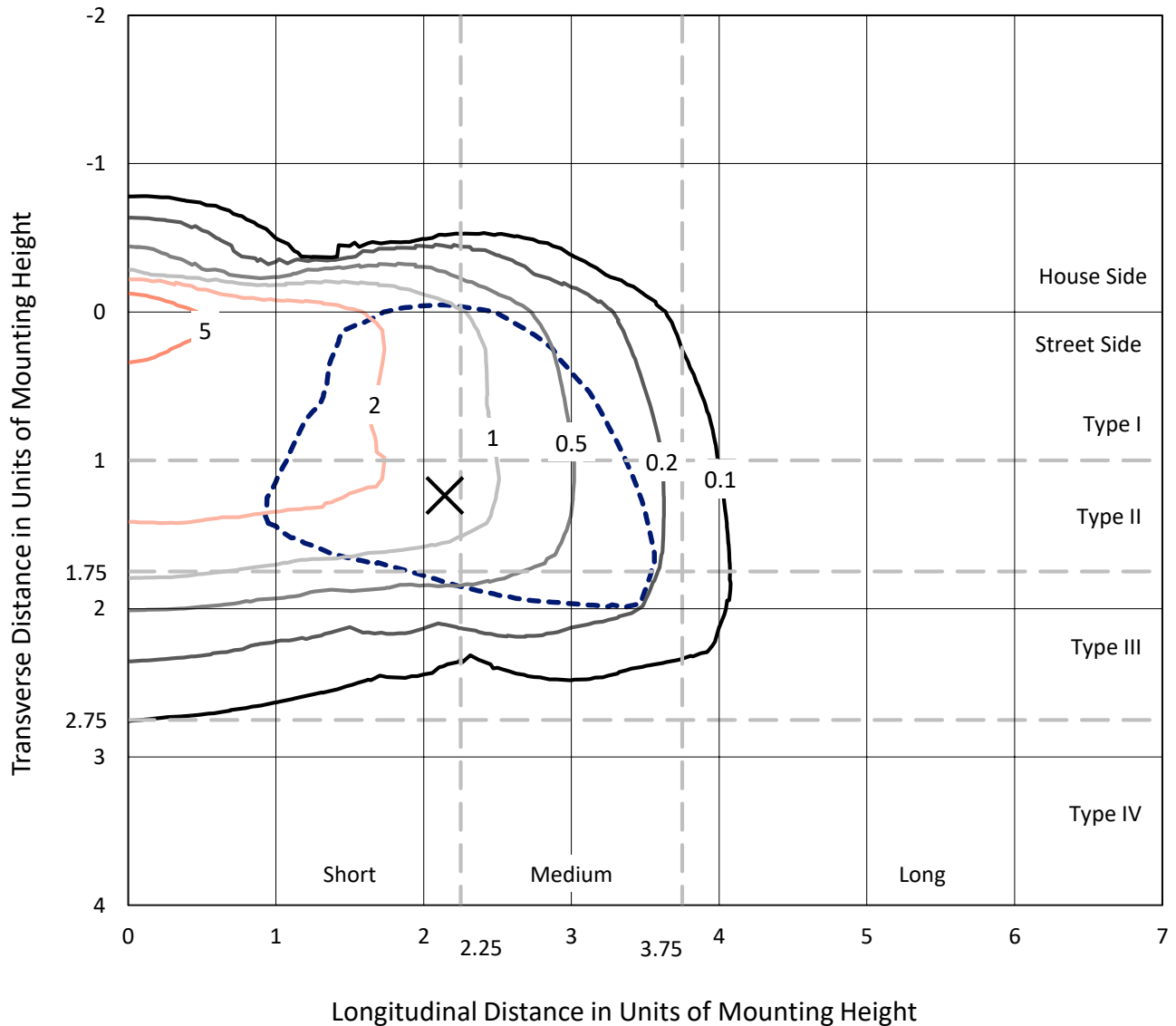


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

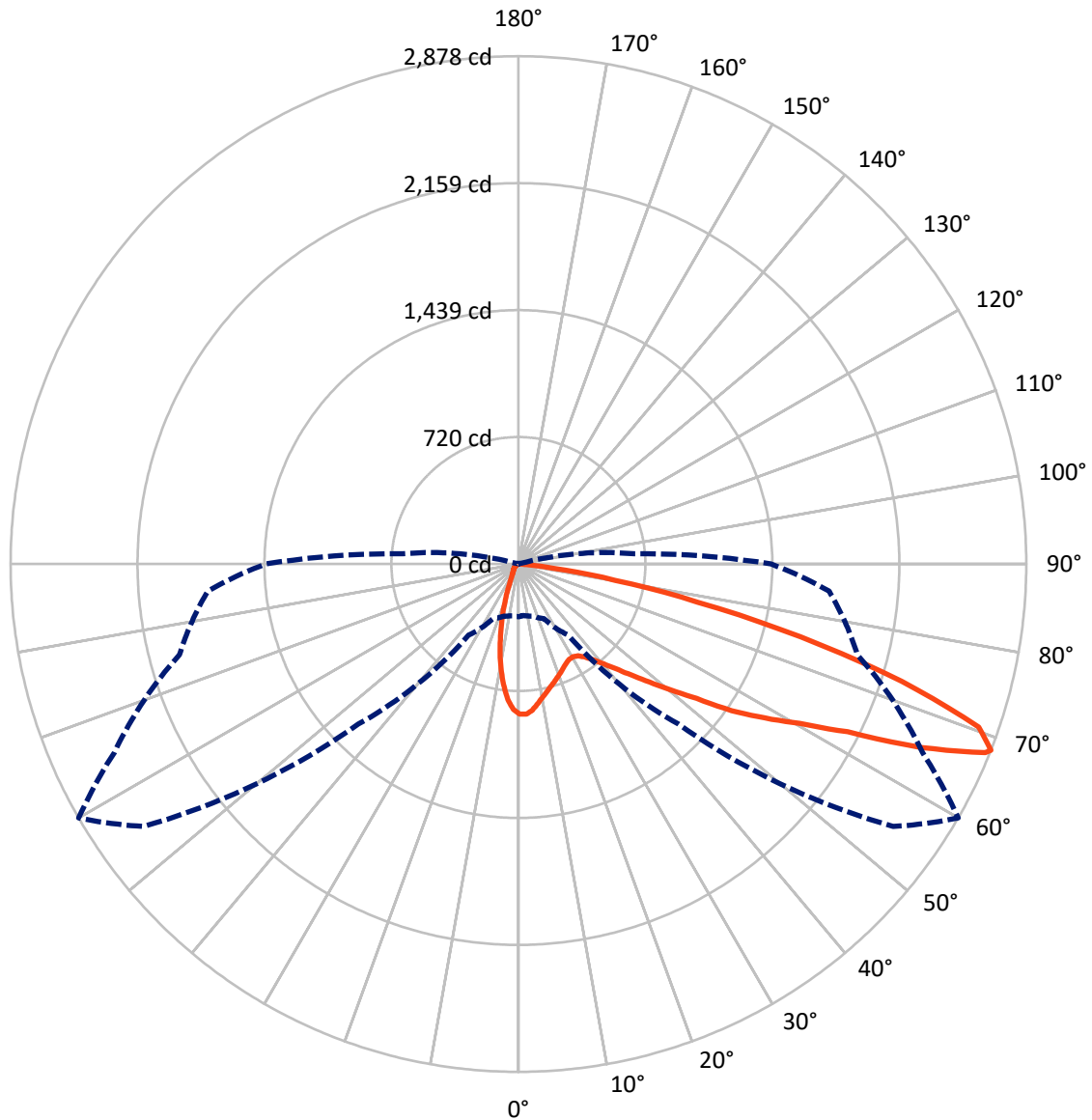


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.7	0.0	310.7
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	2468.3	0.0	2468.3
	% Fixture	88.8	0.0	88.8
Total	Lumens	2779.0	0.0	2779.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	2.5
10°-20°	140.8	5.1
20°-30°	185.4	6.7
30°-40°	255.8	9.2
40°-50°	387.8	14.0
50°-60°	625.7	22.5
60°-70°	743.3	26.7
70°-80°	350.4	12.6
80°-90°	20.9	0.8
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°	2779.0	100.0
0°-180°	2779.0	100.0



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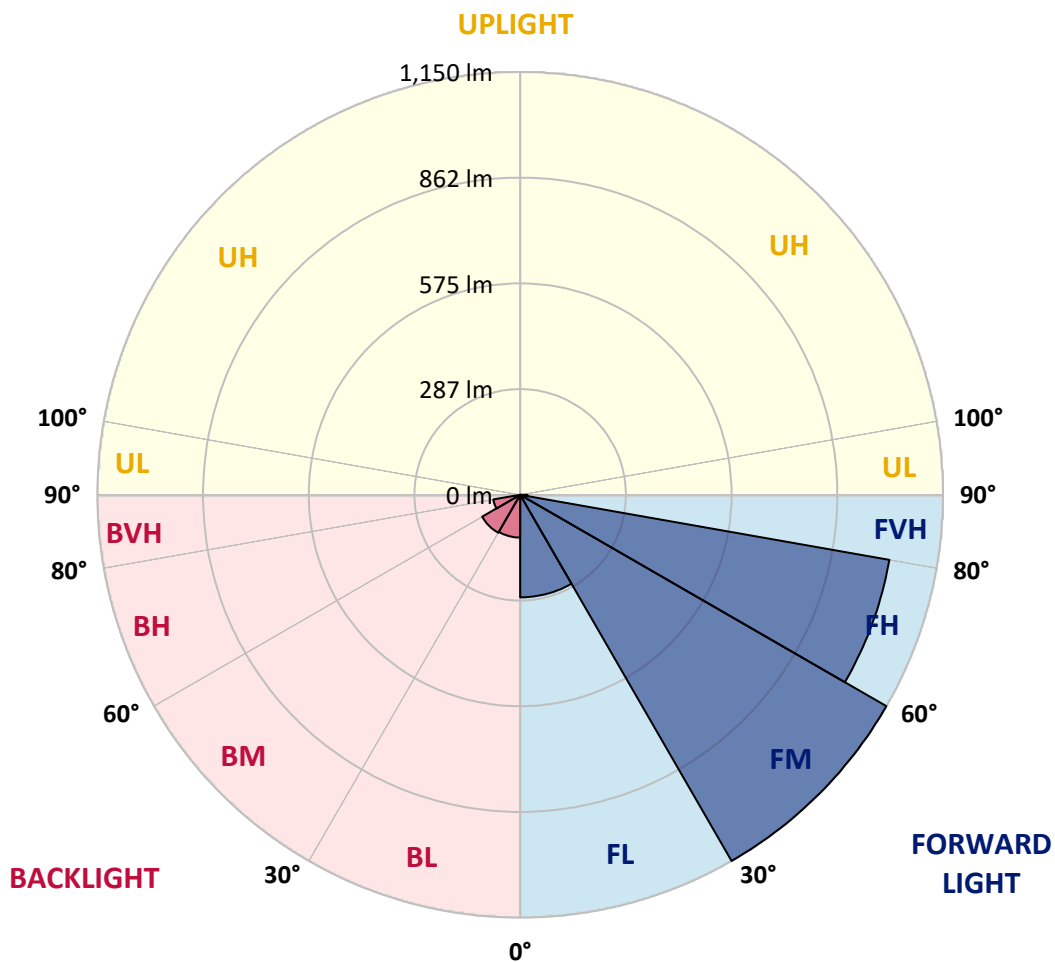
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.9	10.0			
FM (30°-60°)	1149.8	41.4			
FH (60°-80°)	1019.5	36.7			G1/1800
FVH (80°-90°)	20.0	0.7			G1/100
BL (0°-30°)	116.3	4.2	B1/500		
BM (30°-60°)	119.4	4.3	B0/220		
BH (60°-80°)	74.1	2.7	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6
2.5°	843.1	841.2	846.4	847.8	849.2	852.0	851.6	852.0	852.5	851.6	845.9
5°	785.6	788.9	793.6	799.7	805.8	820.0	825.6	831.3	835.1	837.9	832.7
7.5°	729.0	735.6	739.3	750.7	760.1	774.7	787.0	796.9	806.3	816.7	811.5
10°	683.7	686.1	689.4	699.7	713.9	736.0	752.1	764.3	775.6	793.1	788.9
12.5°	639.4	640.8	647.4	658.7	673.3	700.7	721.9	736.0	748.8	770.5	770.9
15°	606.8	607.3	611.6	621.9	638.9	668.1	695.5	711.1	729.0	755.4	756.8
17.5°	585.6	585.2	586.1	592.7	608.7	636.6	669.6	687.9	709.2	743.1	744.5
20°	579.0	578.1	576.2	574.8	584.7	608.7	646.0	666.3	691.2	734.2	734.6
22.5°	584.7	582.8	578.6	570.5	573.4	588.9	620.0	644.6	675.2	729.4	726.1
25°	598.4	598.4	592.7	580.0	573.4	576.7	601.7	625.2	659.2	727.1	720.0
27.5°	621.0	620.0	612.5	599.3	587.0	578.1	590.3	612.5	647.4	729.9	717.2
30°	648.3	645.5	637.5	628.1	613.0	593.6	592.7	609.2	641.7	738.9	719.1
32.5°	674.3	674.3	671.0	662.0	647.4	621.9	607.3	620.5	648.8	753.5	725.2
35°	706.3	705.9	706.8	703.5	690.8	663.9	640.3	646.9	670.5	778.0	739.8
37.5°	731.8	732.3	740.3	745.9	740.3	712.0	687.5	687.5	707.3	814.8	764.8
40°	756.8	757.7	772.8	789.3	790.7	768.1	744.5	744.1	755.4	860.1	803.5
42.5°	779.4	783.2	804.9	833.2	849.7	834.6	817.1	811.5	817.1	928.4	866.2
45°	803.5	811.0	841.2	882.2	909.1	909.6	903.0	896.4	899.2	1005.3	950.1
47.5°	834.6	843.1	880.8	931.3	982.2	995.4	1001.5	999.1	991.6	1102.4	1058.6
50°	885.0	893.1	928.4	985.0	1054.8	1102.4	1118.9	1121.7	1111.8	1209.9	1181.6
52.5°	970.9	975.6	1008.6	1053.4	1131.6	1220.8	1264.1	1264.6	1242.5	1335.8	1314.6
55°	1062.8	1075.1	1113.7	1165.6	1246.2	1346.2	1454.6	1466.4	1398.1	1446.1	1411.7
57.5°	1064.2	1076.0	1140.1	1239.6	1408.4	1540.9	1637.6	1646.1	1570.2	1534.8	1503.2
60°	952.0	958.1	1047.2	1192.9	1466.4	1803.6	1846.0	1833.3	1690.9	1626.3	1617.8
62.5°	671.9	674.7	780.4	972.3	1338.2	1929.0	2163.3	2095.0	1862.5	1761.1	1789.4
65°	423.0	421.5	465.4	618.6	995.4	1805.4	2555.6	2505.7	2177.9	1929.9	1923.3
67.5°	312.1	304.6	316.4	364.0	568.7	1417.4	2627.8	2853.2	2478.3	2000.2	1807.3
68°	299.4	292.8	305.1	341.9	491.8	1283.0	2592.9	2878.2	2525.9	1988.9	1767.7
70°	254.1	248.0	258.4	286.2	342.3	832.7	2287.8	2767.3	2569.3	1892.7	1557.9
72.5°	180.6	183.9	211.2	245.7	290.0	427.2	1684.7	2272.7	2210.0	1683.3	1185.4
75°	107.0	113.2	149.0	198.0	266.4	282.0	1086.9	1652.2	1621.6	1165.6	642.2
77.5°	37.7	40.1	74.0	132.0	219.7	223.5	605.4	1038.8	966.1	476.2	189.6
80°	13.7	13.7	27.3	73.6	141.9	170.7	321.6	554.5	381.5	123.5	52.3
82.5°	2.4	2.4	6.1	25.0	62.7	91.0	149.5	197.1	113.2	27.3	25.9
85°	0.0	0.0	0.0	0.0	0.9	0.9	43.9	44.3	20.7	3.8	11.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9	0.9	0.9	1.4
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°	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6	850.6
2.5°	843.5	842.6	837.4	828.0	820.0	806.8	804.4	791.7	787.0	783.2	787.0
5°	828.9	823.7	806.3	785.1	756.3	722.4	702.6	675.2	669.6	654.5	663.4
7.5°	804.9	793.1	760.6	714.8	662.0	610.1	570.5	532.3	499.8	488.5	485.2
10°	779.4	762.9	708.2	637.5	561.1	481.4	422.5	367.3	336.7	307.9	307.0
12.5°	755.4	730.4	651.2	552.6	446.1	351.3	274.9	216.9	180.6	160.8	166.0
15°	736.0	702.6	593.6	467.7	332.9	226.3	155.6	118.4	105.6	99.5	100.4
17.5°	717.2	672.9	538.0	379.1	237.2	139.6	100.9	88.2	84.4	83.0	82.0
20°	700.2	644.1	479.5	298.9	156.5	96.7	83.0	78.7	77.3	76.4	76.4
22.5°	683.2	613.9	421.1	221.6	107.0	79.2	74.5	72.6	71.7	70.3	70.3
25°	667.7	584.7	362.6	155.1	82.0	70.7	67.4	65.5	63.7	62.2	62.2
27.5°	655.9	562.5	308.4	109.9	68.8	63.7	60.4	57.1	54.7	52.8	52.8
30°	648.3	540.8	256.0	83.0	61.3	56.6	52.3	48.1	44.3	42.0	41.5
32.5°	644.1	522.9	207.5	67.9	54.7	49.5	44.3	39.6	35.4	32.5	32.5
35°	646.0	508.8	158.9	57.5	49.5	43.4	37.7	32.1	28.3	25.9	25.5
37.5°	658.2	500.8	118.4	50.9	44.3	37.7	32.1	26.4	22.6	20.7	20.3
40°	681.3	502.6	90.1	46.2	40.6	33.0	26.4	21.7	18.4	16.5	16.5
42.5°	728.0	516.3	71.2	42.4	36.3	28.3	22.2	17.9	15.1	13.7	13.2
45°	789.8	542.2	58.5	39.1	32.1	24.0	18.9	15.1	12.3	10.8	10.8
47.5°	883.2	583.7	50.5	35.8	27.8	20.3	15.6	12.3	9.4	8.5	8.0
50°	991.1	641.7	44.3	32.1	24.5	17.0	13.2	9.4	7.5	6.1	6.1
52.5°	1101.5	706.3	40.1	28.8	21.2	14.6	10.4	7.1	5.2	4.2	4.2
55°	1202.8	760.6	35.8	25.9	17.9	12.3	8.5	5.7	3.8	2.8	2.8
57.5°	1300.9	810.1	31.1	22.6	14.6	9.9	6.6	4.2	2.8	1.9	1.9
60°	1424.0	874.2	26.9	19.3	11.8	8.0	5.2	3.3	1.9	1.4	0.9
62.5°	1572.5	920.9	22.6	15.6	9.4	6.1	3.8	2.4	1.4	0.5	0.5
65°	1627.2	859.1	18.9	12.7	7.5	4.7	2.8	1.9	0.9	0.5	0.5
67.5°	1474.4	692.2	15.1	9.9	5.7	3.3	2.4	1.4	0.9	0.5	0.5
68°	1432.0	658.2	14.6	9.4	5.2	3.3	1.9	1.4	0.5	0.5	0.0
70°	1209.0	528.6	11.8	7.1	4.2	2.8	1.9	0.9	0.5	0.5	0.0
72.5°	896.4	364.5	8.5	4.7	2.8	1.9	1.4	0.9	0.5	0.5	0.0
75°	472.9	141.9	6.6	3.8	2.4	1.9	1.4	1.4	0.9	0.5	0.5
77.5°	135.8	44.8	5.2	2.8	2.4	2.4	2.4	1.9	1.9	1.4	0.9
80°	39.6	14.6	3.3	1.9	2.4	2.4	2.8	2.4	2.4	1.9	1.9
82.5°	21.2	5.7	1.9	1.4	1.4	1.9	2.4	1.9	1.4	0.9	0.5
85°	9.0	1.9	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5
87.5°	0.5	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)