

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: P401109

Luminaire Tested: **ENT-SA1B-735-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401109
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-SA1B-735-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 2698 lumens
Efficiency: N/A
Efficacy: 106.2 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): 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

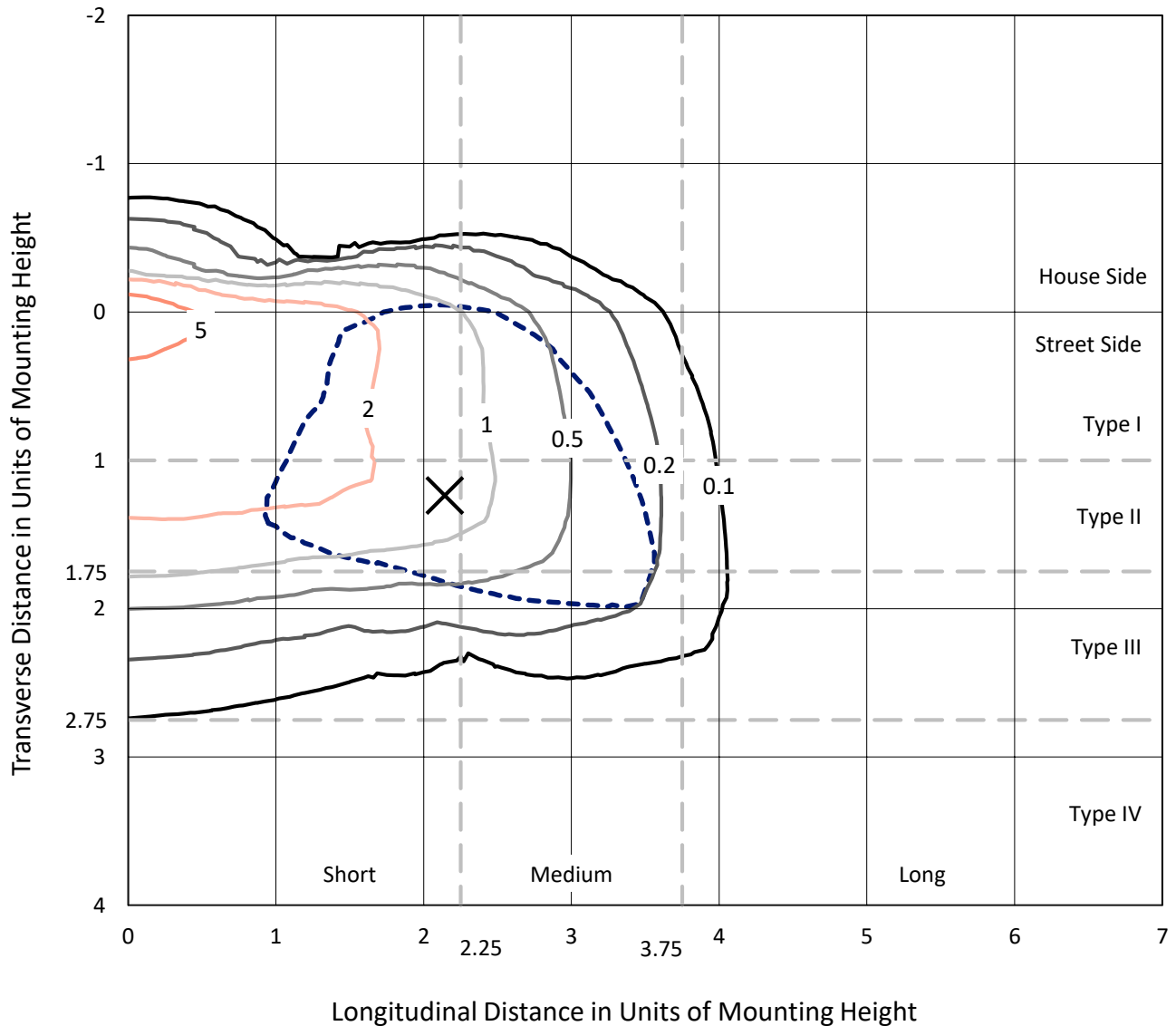


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

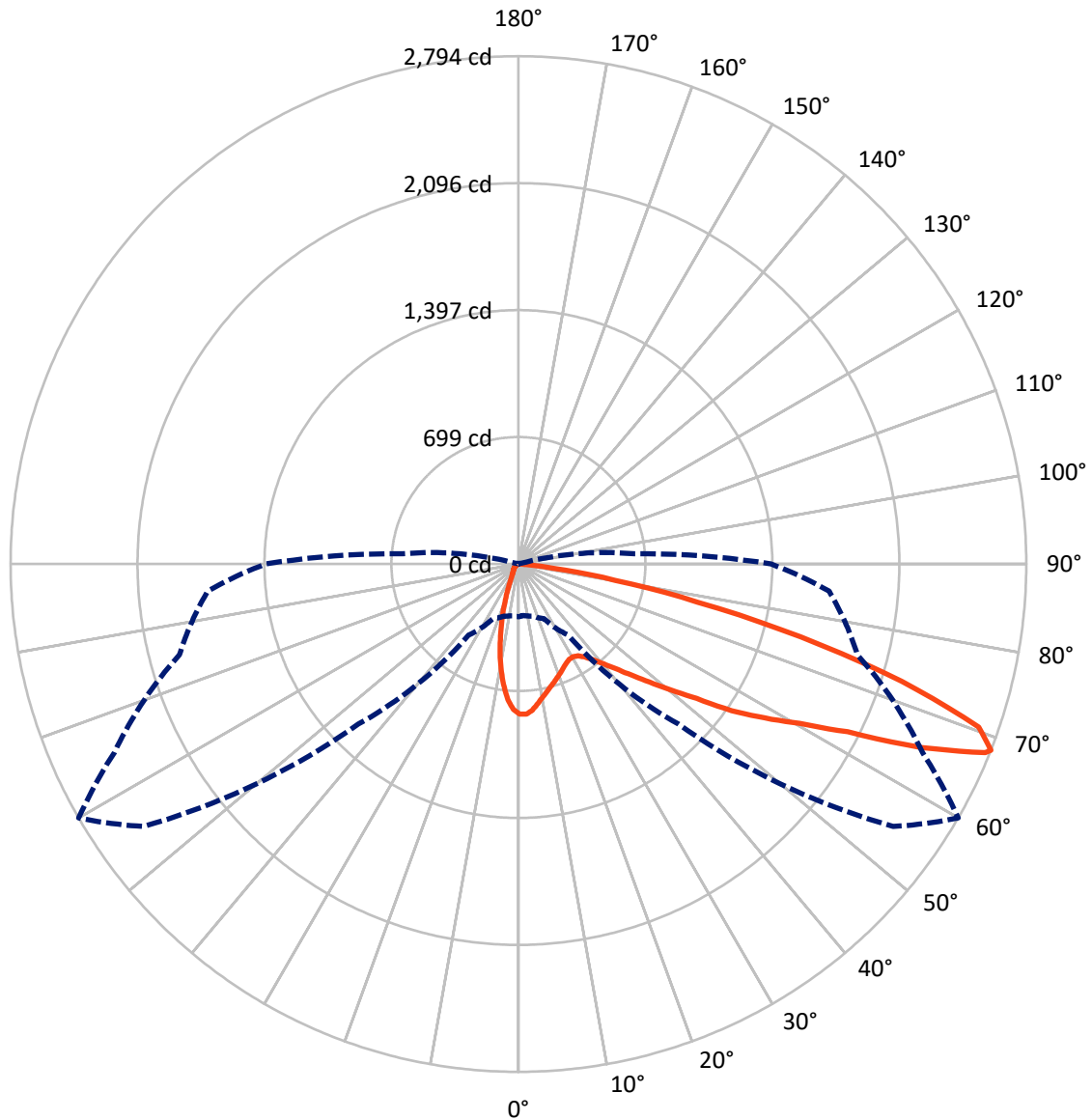


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Semi-Cutoff

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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	301.7	0.0	301.7
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	2396.4	0.0	2396.4
	% Fixture	88.8	0.0	88.8
Total	Lumens	2698.0	0.0	2698.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	2.5
10°-20°	136.7	5.1
20°-30°	180.0	6.7
30°-40°	248.3	9.2
40°-50°	376.4	14.0
50°-60°	607.5	22.5
60°-70°	721.6	26.7
70°-80°	340.2	12.6
80°-90°	20.3	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°	2698.0	100.0
0°-180°	2698.0	100.0



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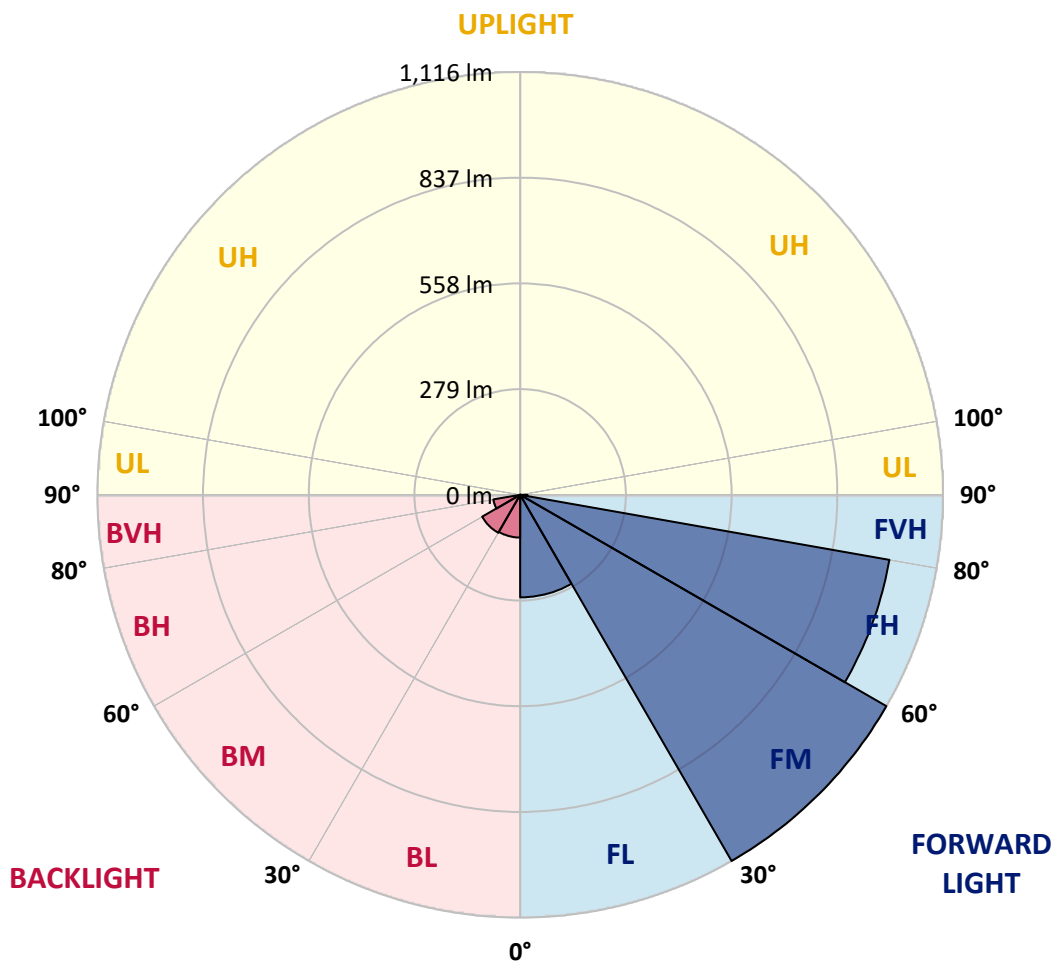
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.8	10.0			
FM (30°-60°)	1116.3	41.4			
FH (60°-80°)	989.8	36.7			G1/1800
FVH (80°-90°)	19.5	0.7			G1/100
BL (0°-30°)	112.9	4.2	B1/500		
BM (30°-60°)	115.9	4.3	B0/220		
BH (60°-80°)	72.0	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°	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8
2.5°	818.5	816.7	821.7	823.1	824.5	827.2	826.7	827.2	827.7	826.7	821.2
5°	762.7	765.9	770.4	776.4	782.3	796.1	801.6	807.1	810.7	813.5	808.4
7.5°	707.7	714.1	717.8	728.8	737.9	752.1	764.0	773.6	782.8	792.9	787.8
10°	663.8	666.1	669.3	679.3	693.1	714.6	730.2	742.1	753.0	770.0	765.9
12.5°	620.7	622.1	628.5	639.5	653.7	680.3	700.9	714.6	726.9	748.0	748.5
15°	589.2	589.6	593.7	603.8	620.3	648.7	675.2	690.3	707.7	733.4	734.7
17.5°	568.6	568.1	569.0	575.4	591.0	618.0	650.0	667.9	688.5	721.5	722.8
20°	562.1	561.2	559.4	558.0	567.6	591.0	627.2	646.8	671.1	712.8	713.2
22.5°	567.6	565.8	561.7	553.9	556.7	571.8	602.0	625.8	655.5	708.2	705.0
25°	580.9	580.9	575.4	563.1	556.7	559.9	584.1	607.0	640.0	705.9	699.0
27.5°	602.9	602.0	594.7	581.8	569.9	561.2	573.1	594.7	628.5	708.6	696.3
30°	629.4	626.7	618.9	609.8	595.1	576.3	575.4	591.4	623.0	717.3	698.1
32.5°	654.6	654.6	651.4	642.7	628.5	603.8	589.6	602.4	629.9	731.5	704.1
35°	685.7	685.3	686.2	683.0	670.6	644.5	621.7	628.1	651.0	755.3	718.3
37.5°	710.5	710.9	718.7	724.2	718.7	691.2	667.4	667.4	686.7	791.0	742.5
40°	734.7	735.6	750.3	766.3	767.7	745.7	722.8	722.4	733.4	835.0	780.1
42.5°	756.7	760.4	781.4	808.9	824.9	810.3	793.3	787.8	793.3	901.4	840.9
45°	780.1	787.4	816.7	856.5	882.6	883.0	876.6	870.2	873.0	976.0	922.4
47.5°	810.3	818.5	855.1	904.1	953.5	966.4	972.3	970.0	962.7	1070.3	1027.7
50°	859.2	867.0	901.4	956.3	1024.0	1070.3	1086.3	1089.0	1079.4	1174.7	1147.2
52.5°	942.6	947.1	979.2	1022.7	1098.7	1185.2	1227.3	1227.8	1206.2	1296.9	1276.3
55°	1031.8	1043.7	1081.3	1131.6	1209.9	1307.0	1412.2	1423.7	1357.3	1404.0	1370.6
57.5°	1033.2	1044.6	1106.9	1203.5	1367.4	1496.0	1589.9	1598.1	1524.4	1490.1	1459.4
60°	924.2	930.2	1016.7	1158.2	1423.7	1751.0	1792.2	1779.8	1641.6	1578.9	1570.6
62.5°	652.3	655.1	757.6	943.9	1299.2	1872.8	2100.3	2033.9	1808.2	1709.8	1737.3
65°	410.6	409.3	451.8	600.6	966.4	1752.8	2481.1	2432.6	2114.5	1873.7	1867.3
67.5°	303.0	295.7	307.2	353.4	552.1	1376.1	2551.2	2770.0	2406.1	1941.9	1754.7
68°	290.7	284.3	296.2	331.9	477.5	1245.6	2517.3	2794.3	2452.3	1930.9	1716.2
70°	246.7	240.8	250.9	277.9	332.3	808.4	2221.1	2686.7	2494.4	1837.5	1512.5
72.5°	175.3	178.5	205.1	238.5	281.5	414.7	1635.6	2206.5	2145.6	1634.3	1150.8
75°	103.9	109.9	144.7	192.3	258.6	273.7	1055.2	1604.0	1574.3	1131.6	623.5
77.5°	36.6	38.9	71.9	128.2	213.3	217.0	587.8	1008.5	938.0	462.4	184.0
80°	13.3	13.3	26.6	71.4	137.8	165.7	312.2	538.3	370.3	119.9	50.8
82.5°	2.3	2.3	6.0	24.3	60.9	88.4	145.1	191.4	109.9	26.6	25.2
85°	0.0	0.0	0.0	0.0	0.9	0.9	42.6	43.0	20.1	3.7	11.0
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°	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8
2.5°	819.0	818.0	813.0	803.9	796.1	783.3	781.0	768.6	764.0	760.4	764.0
5°	804.8	799.7	782.8	762.2	734.3	701.3	682.1	655.5	650.0	635.4	644.1
7.5°	781.4	770.0	738.4	694.0	642.7	592.4	553.9	516.8	485.2	474.3	471.1
10°	756.7	740.7	687.6	618.9	544.8	467.4	410.2	356.6	326.9	298.9	298.0
12.5°	733.4	709.1	632.2	536.5	433.1	341.0	266.9	210.6	175.3	156.1	161.1
15°	714.6	682.1	576.3	454.1	323.2	219.7	151.1	114.9	102.5	96.6	97.5
17.5°	696.3	653.2	522.3	368.1	230.3	135.5	98.0	85.6	81.9	80.6	79.7
20°	679.8	625.3	465.6	290.2	152.0	93.8	80.6	76.4	75.1	74.2	74.2
22.5°	663.3	596.0	408.8	215.2	103.9	76.9	72.3	70.5	69.6	68.2	68.2
25°	648.2	567.6	352.0	150.6	79.7	68.7	65.5	63.6	61.8	60.4	60.4
27.5°	636.8	546.1	299.4	106.7	66.8	61.8	58.6	55.4	53.1	51.3	51.3
30°	629.4	525.1	248.6	80.6	59.5	54.9	50.8	46.7	43.0	40.7	40.3
32.5°	625.3	507.7	201.4	65.9	53.1	48.1	43.0	38.5	34.3	31.6	31.6
35°	627.2	493.9	154.3	55.8	48.1	42.1	36.6	31.1	27.5	25.2	24.7
37.5°	639.1	486.2	114.9	49.4	43.0	36.6	31.1	25.6	22.0	20.1	19.7
40°	661.5	488.0	87.4	44.9	39.4	32.0	25.6	21.1	17.9	16.0	16.0
42.5°	706.8	501.3	69.1	41.2	35.2	27.5	21.5	17.4	14.6	13.3	12.8
45°	766.8	526.4	56.8	38.0	31.1	23.3	18.3	14.6	11.9	10.5	10.5
47.5°	857.4	566.7	49.0	34.8	27.0	19.7	15.1	11.9	9.2	8.2	7.8
50°	962.2	623.0	43.0	31.1	23.8	16.5	12.8	9.2	7.3	6.0	6.0
52.5°	1069.4	685.7	38.9	27.9	20.6	14.2	10.1	6.9	5.0	4.1	4.1
55°	1167.8	738.4	34.8	25.2	17.4	11.9	8.2	5.5	3.7	2.7	2.7
57.5°	1263.0	786.5	30.2	22.0	14.2	9.6	6.4	4.1	2.7	1.8	1.8
60°	1382.5	848.7	26.1	18.8	11.4	7.8	5.0	3.2	1.8	1.4	0.9
62.5°	1526.7	894.0	22.0	15.1	9.2	6.0	3.7	2.3	1.4	0.5	0.5
65°	1579.8	834.1	18.3	12.4	7.3	4.6	2.7	1.8	0.9	0.5	0.5
67.5°	1431.5	672.0	14.6	9.6	5.5	3.2	2.3	1.4	0.9	0.5	0.5
68°	1390.3	639.1	14.2	9.2	5.0	3.2	1.8	1.4	0.5	0.5	0.0
70°	1173.7	513.2	11.4	6.9	4.1	2.7	1.8	0.9	0.5	0.5	0.0
72.5°	870.2	353.9	8.2	4.6	2.7	1.8	1.4	0.9	0.5	0.5	0.0
75°	459.1	137.8	6.4	3.7	2.3	1.8	1.4	1.4	0.9	0.5	0.5
77.5°	131.8	43.5	5.0	2.7	2.3	2.3	2.3	1.8	1.8	1.4	0.9
80°	38.5	14.2	3.2	1.8	2.3	2.3	2.7	2.3	2.3	1.8	1.8
82.5°	20.6	5.5	1.8	1.4	1.4	1.8	2.3	1.8	1.4	0.9	0.5
85°	8.7	1.8	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)