

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: P401091

Luminaire Tested: **ENC-SA1B-730-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401091
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: ENC-SA1B-730-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 2616 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

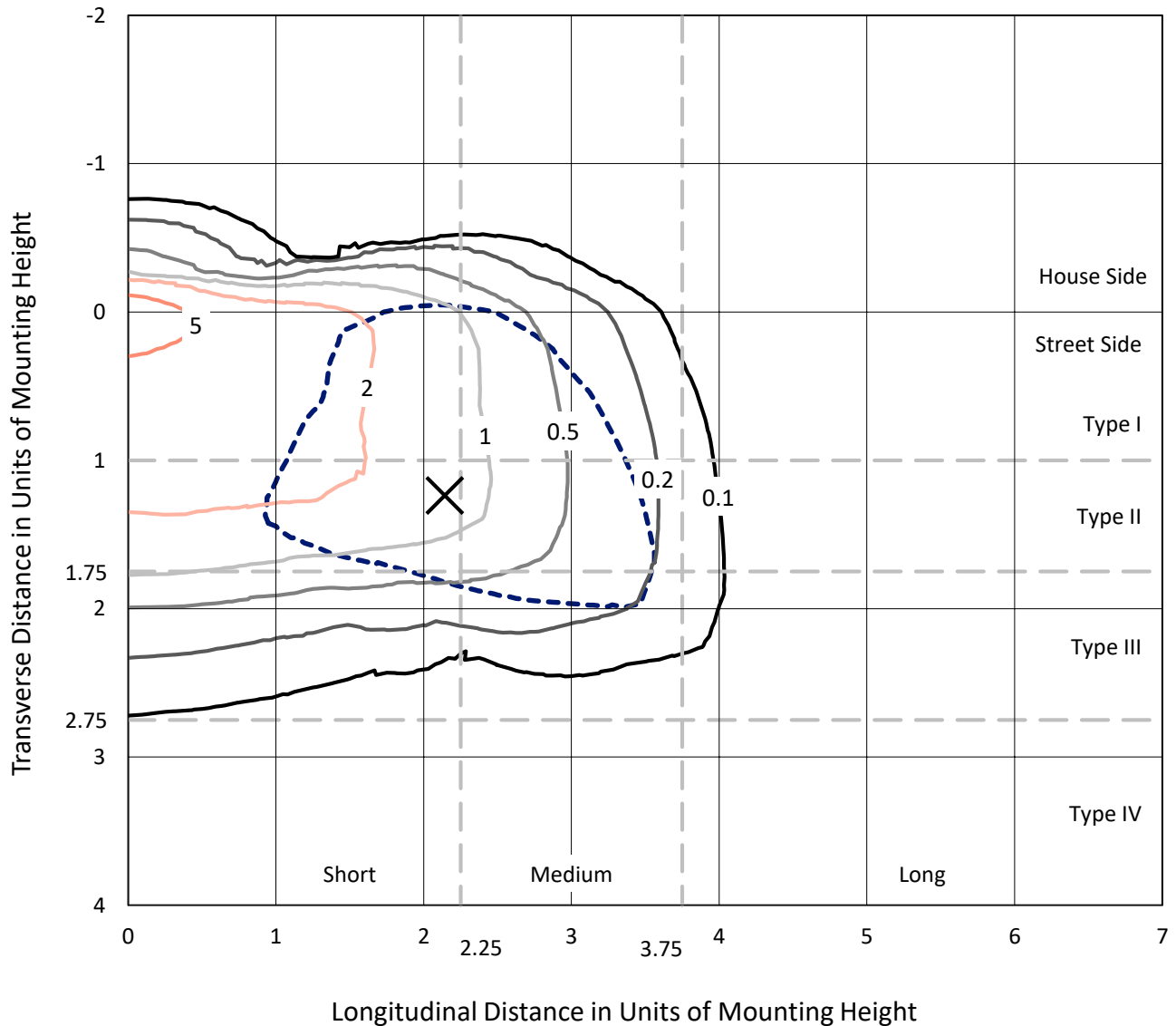
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

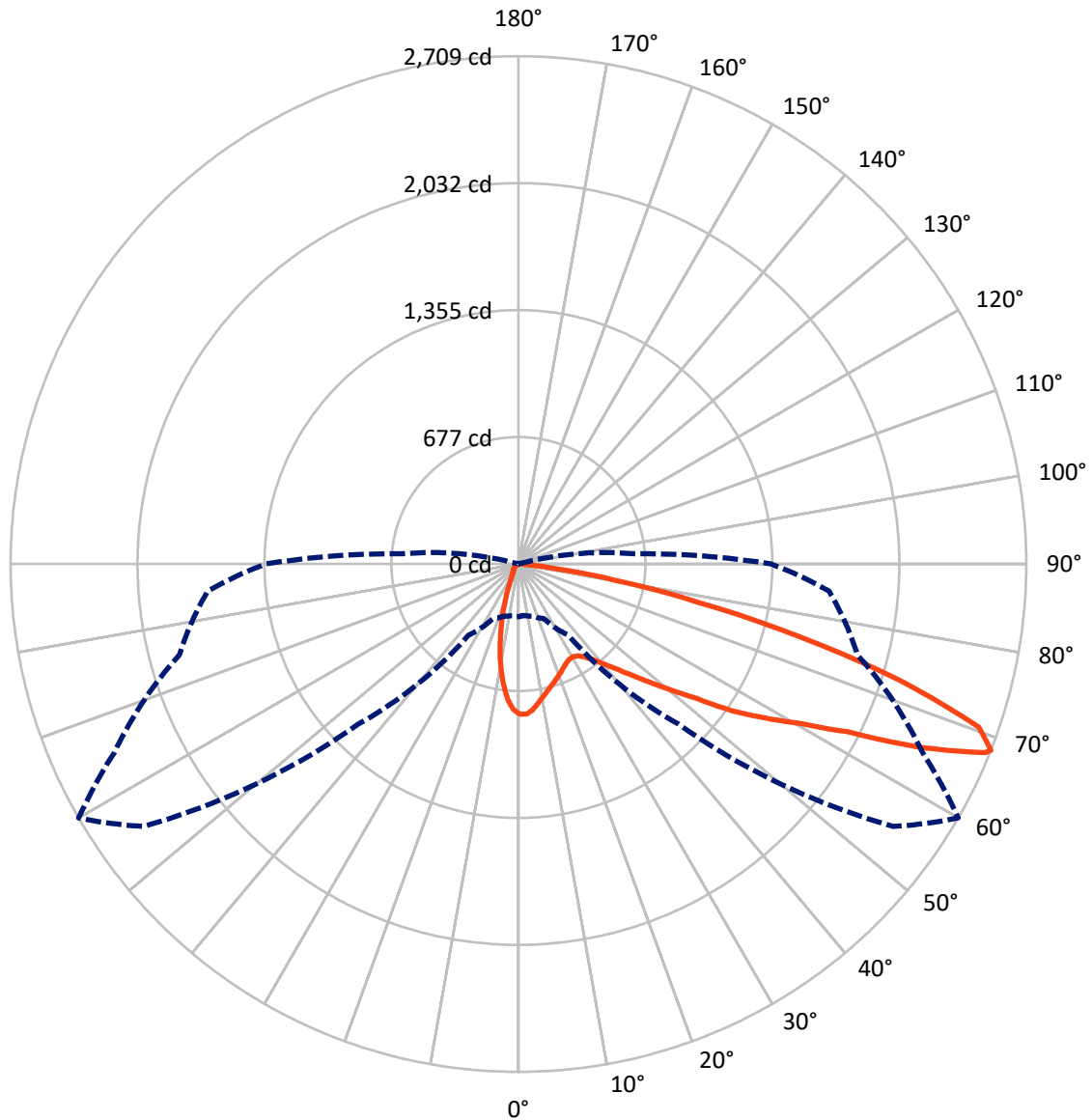
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 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	292.5	0.0	292.5
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	2323.5	0.0	2323.5
	% Fixture	88.8	0.0	88.8
Total	Lumens	2616.0	0.0	2616.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	2.5
10°-20°	132.5	5.1
20°-30°	174.5	6.7
30°-40°	240.8	9.2
40°-50°	365.0	14.0
50°-60°	589.0	22.5
60°-70°	699.7	26.7
70°-80°	329.8	12.6
80°-90°	19.7	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°	2616.0	100.0
0°-180°	2616.0	100.0



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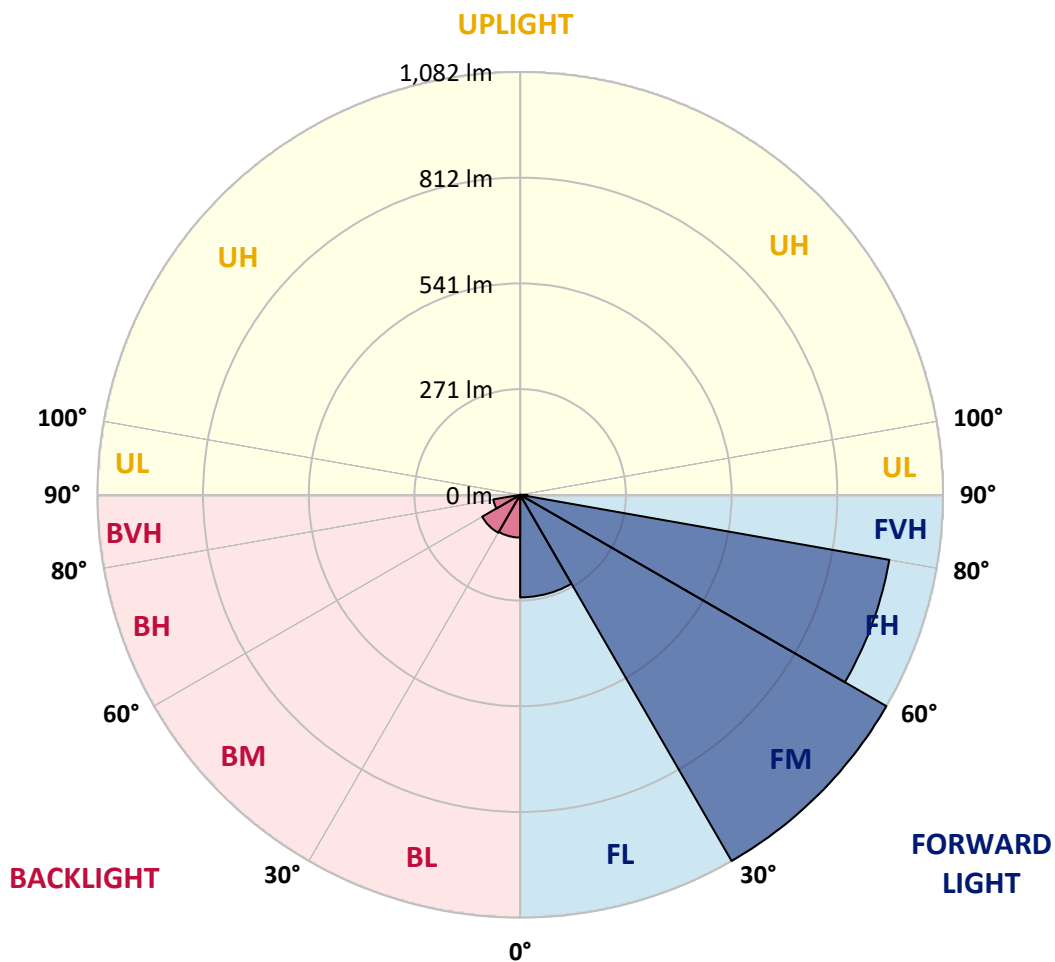
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.6	10.0			
FM	(30°-60°)	1082.4	41.4			
FH	(60°-80°)	959.7	36.7			G1/1800
FVH	(80°-90°)	18.9	0.7			G1/100
BL	(0°-30°)	109.4	4.2	B0/110		
BM	(30°-60°)	112.4	4.3	B0/220		
BH	(60°-80°)	69.8	2.7	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7
2.5°	793.6	791.9	796.7	798.1	799.4	802.1	801.6	802.1	802.5	801.6	796.3
5°	739.5	742.6	747.0	752.8	758.6	771.9	777.2	782.5	786.1	788.7	783.9
7.5°	686.2	692.4	696.0	706.6	715.5	729.3	740.8	750.1	759.0	768.8	763.9
10°	643.6	645.8	648.9	658.7	672.0	692.9	708.0	719.5	730.2	746.6	742.6
12.5°	601.9	603.2	609.4	620.1	633.8	659.6	679.6	692.9	704.9	725.3	725.7
15°	571.3	571.7	575.7	585.5	601.4	629.0	654.7	669.3	686.2	711.1	712.4
17.5°	551.3	550.8	551.7	557.9	573.0	599.2	630.3	647.6	667.6	699.5	700.9
20°	545.1	544.2	542.4	541.1	550.4	573.0	608.1	627.2	650.7	691.1	691.5
22.5°	550.4	548.6	544.6	537.1	539.7	554.4	583.7	606.8	635.6	686.7	683.5
25°	563.3	563.3	557.9	546.0	539.7	542.8	566.4	588.6	620.5	684.4	677.8
27.5°	584.6	583.7	576.6	564.1	552.6	544.2	555.7	576.6	609.4	687.1	675.1
30°	610.3	607.6	600.1	591.2	577.0	558.8	557.9	573.5	604.1	695.5	676.9
32.5°	634.7	634.7	631.6	623.2	609.4	585.5	571.7	584.1	610.8	709.3	682.7
35°	664.9	664.5	665.4	662.2	650.3	625.0	602.8	609.0	631.2	732.4	696.4
37.5°	688.9	689.3	696.9	702.2	696.9	670.2	647.2	647.2	665.8	767.0	719.9
40°	712.4	713.3	727.5	743.0	744.4	723.1	700.9	700.4	711.1	809.6	756.3
42.5°	733.7	737.3	757.7	784.3	799.8	785.6	769.2	763.9	769.2	874.0	815.4
45°	756.3	763.4	791.9	830.5	855.8	856.2	850.0	843.8	846.4	946.3	894.4
47.5°	785.6	793.6	829.1	876.6	924.6	937.0	942.8	940.5	933.4	1037.8	996.5
50°	833.1	840.7	874.0	927.2	992.9	1037.8	1053.3	1055.9	1046.6	1139.0	1112.3
52.5°	913.9	918.4	949.4	991.6	1065.3	1149.2	1190.0	1190.4	1169.6	1257.5	1237.5
55°	1000.5	1012.0	1048.4	1097.2	1173.1	1267.2	1369.3	1380.4	1316.1	1361.3	1328.9
57.5°	1001.8	1012.9	1073.3	1166.9	1325.8	1450.5	1541.5	1549.5	1478.1	1444.8	1415.0
60°	896.2	901.9	985.8	1123.0	1380.4	1697.8	1737.7	1725.7	1591.7	1530.9	1522.9
62.5°	632.5	635.2	734.6	915.2	1259.7	1815.8	2036.4	1972.1	1753.3	1657.8	1684.5
65°	398.1	396.8	438.1	582.3	937.0	1699.6	2405.7	2358.7	2050.2	1816.7	1810.5
67.5°	293.8	286.7	297.8	342.7	535.3	1334.3	2473.6	2685.8	2332.9	1882.9	1701.3
68°	281.9	275.6	287.2	321.8	462.9	1207.8	2440.8	2709.3	2377.8	1872.2	1664.0
70°	239.2	233.5	243.2	269.4	322.2	783.9	2153.6	2605.0	2418.6	1781.7	1466.5
72.5°	170.0	173.1	198.9	231.3	273.0	402.1	1585.9	2139.4	2080.4	1584.6	1115.9
75°	100.8	106.5	140.3	186.4	250.8	265.4	1023.1	1555.3	1526.4	1097.2	604.5
77.5°	35.5	37.7	69.7	124.3	206.8	210.4	569.9	977.8	909.5	448.3	178.4
80°	12.9	12.9	25.7	69.2	133.6	160.7	302.7	522.0	359.1	116.3	49.3
82.5°	2.2	2.2	5.8	23.5	59.0	85.7	140.7	185.5	106.5	25.7	24.4
85°	0.0	0.0	0.0	0.0	0.9	0.9	41.3	41.7	19.5	3.6	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.9	0.9	0.9	1.3
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°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7
2.5°	794.1	793.2	788.3	779.4	771.9	759.4	757.2	745.2	740.8	737.3	740.8
5°	780.3	775.4	759.0	739.0	712.0	680.0	661.4	635.6	630.3	616.1	624.5
7.5°	757.7	746.6	716.0	672.9	623.2	574.4	537.1	501.1	470.5	459.8	456.7
10°	733.7	718.2	666.7	600.1	528.2	453.2	397.7	345.8	316.9	289.8	289.0
12.5°	711.1	687.5	613.0	520.2	419.9	330.7	258.8	204.2	170.0	151.4	156.2
15°	692.9	661.4	558.8	440.3	313.4	213.1	146.5	111.4	99.4	93.7	94.5
17.5°	675.1	633.4	506.4	356.9	223.3	131.4	95.0	83.0	79.5	78.1	77.2
20°	659.1	606.3	451.4	281.4	147.4	91.0	78.1	74.1	72.8	71.9	71.9
22.5°	643.2	577.9	396.4	208.6	100.8	74.6	70.1	68.4	67.5	66.1	66.1
25°	628.5	550.4	341.3	146.0	77.2	66.6	63.5	61.7	59.9	58.6	58.6
27.5°	617.4	529.5	290.3	103.4	64.8	59.9	56.8	53.7	51.5	49.7	49.7
30°	610.3	509.1	241.0	78.1	57.7	53.3	49.3	45.3	41.7	39.5	39.1
32.5°	606.3	492.2	195.3	63.9	51.5	46.6	41.7	37.3	33.3	30.6	30.6
35°	608.1	478.9	149.6	54.2	46.6	40.8	35.5	30.2	26.6	24.4	24.0
37.5°	619.6	471.4	111.4	47.9	41.7	35.5	30.2	24.9	21.3	19.5	19.1
40°	641.4	473.2	84.8	43.5	38.2	31.1	24.9	20.4	17.3	15.5	15.5
42.5°	685.3	486.0	67.0	39.9	34.2	26.6	20.9	16.9	14.2	12.9	12.4
45°	743.5	510.4	55.0	36.8	30.2	22.6	17.8	14.2	11.5	10.2	10.2
47.5°	831.4	549.5	47.5	33.7	26.2	19.1	14.6	11.5	8.9	8.0	7.5
50°	933.0	604.1	41.7	30.2	23.1	16.0	12.4	8.9	7.1	5.8	5.8
52.5°	1036.9	664.9	37.7	27.1	20.0	13.8	9.8	6.7	4.9	4.0	4.0
55°	1132.3	716.0	33.7	24.4	16.9	11.5	8.0	5.3	3.6	2.7	2.7
57.5°	1224.6	762.6	29.3	21.3	13.8	9.3	6.2	4.0	2.7	1.8	1.8
60°	1340.5	822.9	25.3	18.2	11.1	7.5	4.9	3.1	1.8	1.3	0.9
62.5°	1480.3	866.9	21.3	14.6	8.9	5.8	3.6	2.2	1.3	0.4	0.4
65°	1531.8	808.7	17.8	12.0	7.1	4.4	2.7	1.8	0.9	0.4	0.4
67.5°	1388.0	651.6	14.2	9.3	5.3	3.1	2.2	1.3	0.9	0.4	0.4
68°	1348.0	619.6	13.8	8.9	4.9	3.1	1.8	1.3	0.4	0.4	0.0
70°	1138.1	497.6	11.1	6.7	4.0	2.7	1.8	0.9	0.4	0.4	0.0
72.5°	843.8	343.1	8.0	4.4	2.7	1.8	1.3	0.9	0.4	0.4	0.0
75°	445.2	133.6	6.2	3.6	2.2	1.8	1.3	1.3	0.9	0.4	0.4
77.5°	127.8	42.2	4.9	2.7	2.2	2.2	2.2	1.8	1.8	1.3	0.9
80°	37.3	13.8	3.1	1.8	2.2	2.2	2.7	2.2	2.2	1.8	1.8
82.5°	20.0	5.3	1.8	1.3	1.3	1.8	2.2	1.8	1.3	0.9	0.4
85°	8.4	1.8	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4
87.5°	0.4	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)