

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: P401251

Luminaire Tested: **ENT-SA1C-727-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401251
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: ENT-SA1C-727-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 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: 3049 lumens
Efficiency: N/A
Efficacy: 91.6 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

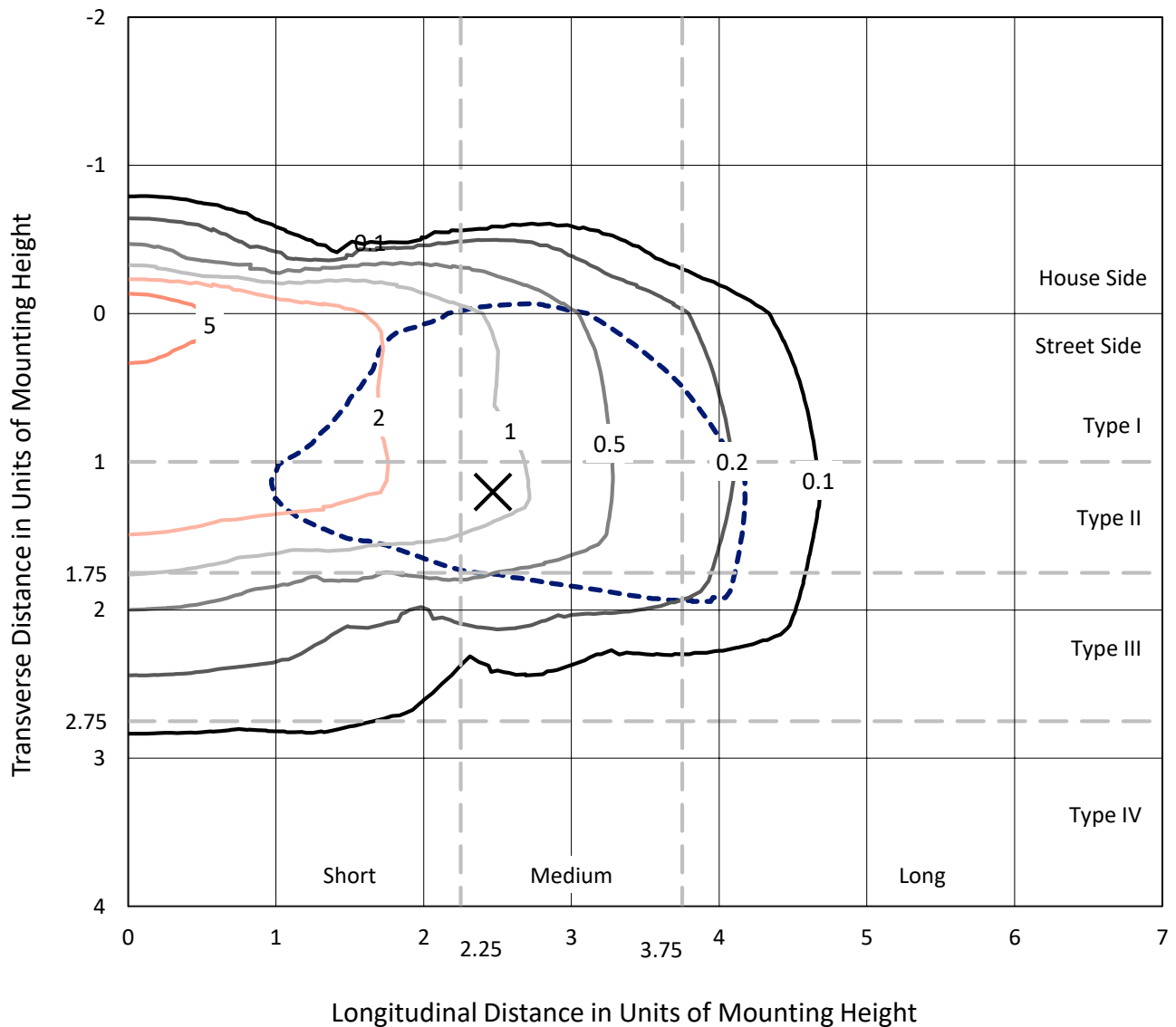
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

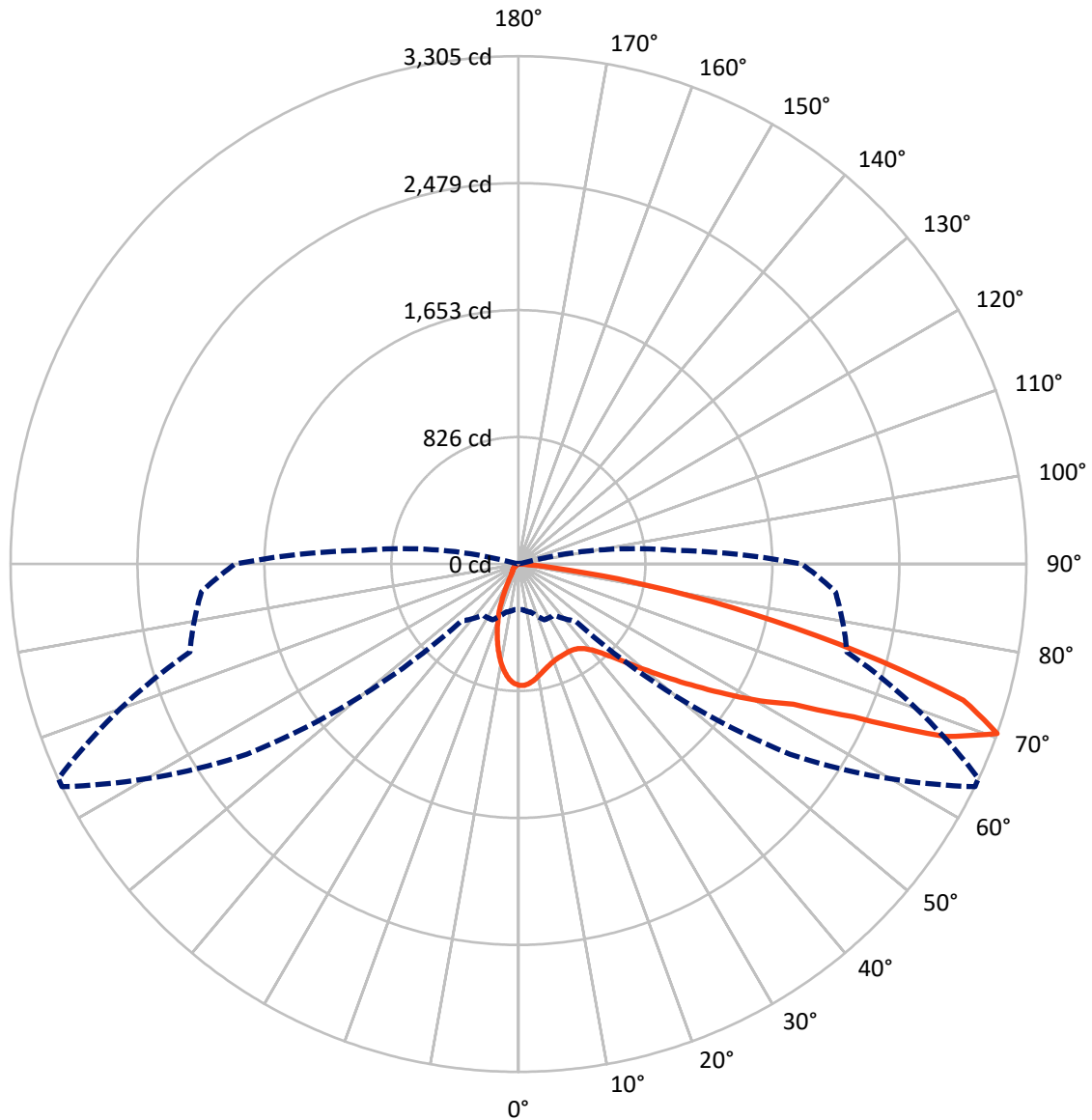
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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
House Side	Lumens	391.7	0.0	391.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2657.3	0.0	2657.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	3049.0	0.0	3049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	2.2
10°-20°	147.6	4.8
20°-30°	203.3	6.7
30°-40°	279.9	9.2
40°-50°	417.2	13.7
50°-60°	659.0	21.6
60°-70°	746.7	24.5
70°-80°	490.3	16.1
80°-90°	38.4	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°	3049.0	100.0
0°-180°	3049.0	100.0



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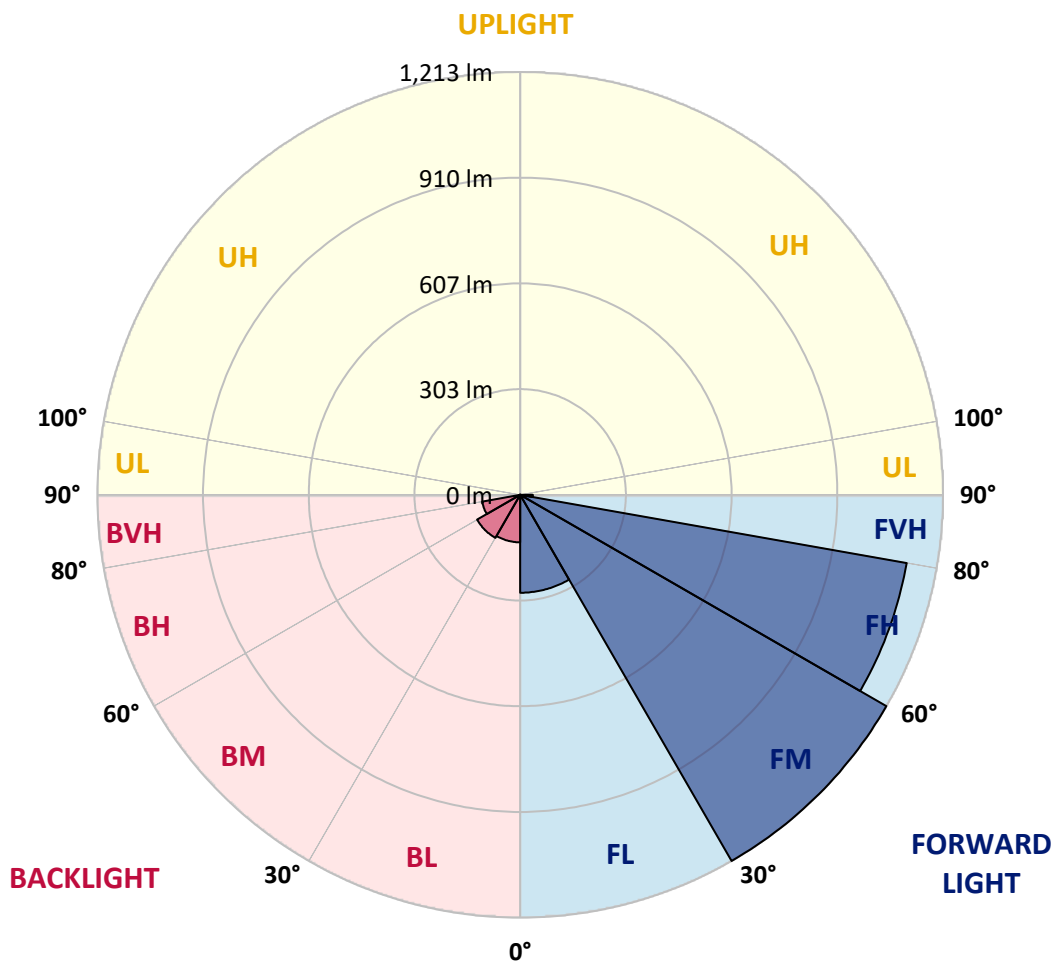
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.1	9.2			
FM	(30°-60°)	1213.5	39.8			
FH	(60°-80°)	1126.5	36.9			G1/1800
FVH	(80°-90°)	36.3	1.2			G1/100
BL	(0°-30°)	136.3	4.5	B1/500		
BM	(30°-60°)	142.6	4.7	B0/220		
BH	(60°-80°)	110.6	3.6	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
2.5°	767.3	767.3	771.0	774.8	776.9	782.8	787.1	790.3	790.3	792.5	788.7
5°	716.3	716.3	719.6	728.7	738.3	750.7	764.6	778.5	781.2	791.4	790.9
7.5°	669.2	673.5	678.8	687.9	698.1	716.3	735.7	759.8	762.5	787.1	792.5
10°	636.5	639.1	642.4	652.5	667.6	688.5	709.4	737.8	742.6	779.6	792.5
12.5°	610.2	610.7	615.5	626.8	641.3	661.7	685.3	716.3	722.2	766.2	790.3
15°	591.4	590.9	596.2	607.0	620.9	641.8	664.9	697.6	704.0	755.0	789.8
17.5°	580.2	580.7	585.0	593.0	606.4	626.3	649.9	682.0	688.5	745.8	792.5
20°	580.2	580.2	582.8	586.6	596.8	614.5	637.5	670.8	677.2	739.9	796.2
22.5°	591.4	590.3	592.5	589.3	594.1	606.4	630.0	663.3	670.2	737.3	802.1
25°	611.8	609.6	611.3	604.3	598.9	604.3	625.2	660.0	667.6	737.8	807.5
27.5°	640.2	640.2	637.0	627.3	613.9	608.0	624.7	657.9	665.4	737.8	811.3
30°	679.9	678.3	673.5	663.8	642.9	623.1	630.0	657.9	665.4	738.3	812.3
32.5°	719.6	720.6	723.3	713.7	685.3	648.8	642.9	662.7	669.2	737.8	810.7
35°	759.8	760.3	772.1	773.2	736.7	690.1	664.9	675.6	679.9	743.2	811.8
37.5°	795.2	797.8	820.9	832.2	802.1	743.2	699.7	699.7	701.9	757.6	818.2
40°	834.8	841.8	869.7	894.9	883.1	811.3	750.7	735.1	736.2	783.9	832.7
42.5°	881.0	889.5	926.0	962.5	961.9	894.9	815.0	791.4	792.5	829.5	862.2
45°	939.4	945.3	991.4	1037.0	1046.6	987.1	896.0	864.9	865.9	898.7	919.6
47.5°	1010.7	1017.7	1062.2	1116.9	1141.5	1098.1	1001.1	967.3	964.1	987.1	1002.1
50°	1104.0	1117.4	1143.7	1196.2	1255.8	1226.8	1124.4	1090.6	1086.3	1104.6	1109.4
52.5°	1193.0	1205.4	1216.1	1264.3	1379.6	1386.6	1275.6	1238.6	1234.3	1238.6	1244.5
55°	1206.4	1213.4	1221.4	1286.9	1479.9	1589.8	1447.7	1403.7	1391.4	1383.4	1403.2
57.5°	1099.7	1095.4	1122.2	1211.3	1496.5	1814.5	1680.4	1595.2	1583.4	1538.9	1519.0
60°	870.8	864.9	890.1	1011.8	1403.2	1926.0	2003.2	1807.0	1778.0	1628.9	1609.6
62.5°	611.8	604.8	637.5	709.4	1088.5	1904.0	2367.3	2007.5	1950.1	1708.8	1682.6
65°	471.3	468.1	485.8	501.9	664.3	1649.3	2567.8	2398.9	2280.4	1795.7	1761.9
67.5°	369.4	373.7	395.7	442.4	429.0	1027.9	2549.0	2996.2	2877.7	1955.5	1934.0
70°	297.0	298.1	325.5	400.0	404.8	523.3	2158.2	3305.1	3303.5	2213.4	2070.8
72.5°	179.6	184.4	229.0	345.8	408.6	400.5	1450.9	3028.4	3070.2	2273.4	1867.5
75°	86.3	91.2	118.5	232.2	405.9	389.8	785.0	2292.7	2346.4	2038.6	1514.2
77.5°	32.2	36.5	54.7	113.7	300.8	357.1	412.9	1545.8	1588.2	1492.2	1025.7
80°	10.2	11.8	21.4	52.0	152.8	294.9	265.9	871.8	900.3	653.1	344.8
82.5°	1.1	1.6	5.9	17.7	59.0	150.1	156.0	328.1	342.6	127.6	69.7
85°	0.0	0.0	0.0	0.0	1.1	1.1	38.6	62.7	51.5	12.3	20.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	1.6	1.6	2.1
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°	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3	789.3
2.5°	788.2	788.2	784.4	778.5	771.0	760.3	757.6	749.1	749.1	742.1	741.0
5°	789.3	786.1	773.7	755.5	730.3	702.9	685.8	667.0	650.9	640.7	641.8
7.5°	789.3	782.3	757.6	717.4	670.2	623.1	587.1	545.3	526.0	513.1	519.0
10°	787.1	775.3	732.4	671.3	596.8	531.4	472.4	424.1	390.9	376.9	365.1
12.5°	782.3	765.1	700.8	613.9	518.5	432.7	351.2	287.9	244.0	222.0	219.3
15°	778.0	754.4	663.8	551.2	430.0	318.0	226.8	166.2	128.7	120.1	121.2
17.5°	776.9	744.2	628.4	484.7	343.7	211.8	130.8	105.6	100.3	98.1	97.6
20°	777.5	735.1	589.8	418.8	243.4	131.9	99.2	93.3	91.2	90.1	89.5
22.5°	779.6	724.9	551.7	349.6	166.2	96.5	88.5	84.7	82.0	80.4	79.9
25°	779.6	713.7	509.4	276.1	108.8	84.7	79.4	74.5	70.8	68.6	68.6
27.5°	778.0	700.8	465.4	209.7	86.3	75.6	69.7	63.3	58.4	55.8	55.8
30°	773.2	685.3	423.1	146.4	75.6	67.6	60.1	52.0	46.1	43.4	42.4
32.5°	766.2	668.6	374.3	102.9	68.1	59.0	50.4	41.8	36.5	33.2	33.2
35°	758.7	652.0	321.7	78.8	61.7	52.0	42.4	33.8	29.0	26.8	26.3
37.5°	755.0	634.3	270.2	68.1	55.2	44.5	34.3	27.3	23.6	22.0	21.4
40°	757.6	620.9	219.8	61.1	49.3	37.5	28.4	23.1	19.8	17.7	17.7
42.5°	773.7	613.4	172.1	55.8	44.0	31.6	23.6	18.8	15.5	13.9	13.9
45°	806.4	618.8	130.8	50.9	37.5	26.3	19.8	15.0	11.8	10.2	10.2
47.5°	861.1	640.2	99.2	46.6	32.2	21.4	16.1	11.8	9.1	8.0	7.5
50°	941.0	682.6	77.7	42.4	26.8	18.2	13.4	9.1	7.0	5.9	5.9
52.5°	1056.3	756.0	66.5	37.5	22.0	15.0	10.7	7.0	5.4	4.3	4.3
55°	1197.8	849.3	60.1	33.2	17.7	12.3	8.6	5.4	3.8	3.2	2.7
57.5°	1312.6	923.3	56.3	29.0	15.0	10.7	6.4	4.3	3.2	2.1	2.1
60°	1413.9	971.0	49.9	24.1	12.9	8.6	5.4	3.2	2.1	1.6	1.6
62.5°	1496.0	1002.1	41.3	19.3	10.7	7.0	4.3	2.7	2.1	1.6	1.6
65°	1589.3	1027.3	33.8	15.0	9.1	5.9	3.8	2.1	1.6	1.6	1.6
67.5°	1772.1	1083.6	25.2	11.8	7.0	4.8	3.2	2.1	1.6	1.1	1.1
70°	1843.4	1017.7	19.8	9.7	5.4	4.3	3.2	2.1	1.1	1.1	1.1
72.5°	1568.9	761.9	15.5	8.0	4.8	3.8	3.2	2.1	1.6	1.6	1.1
75°	1244.5	514.7	12.3	6.4	4.8	4.3	3.2	3.2	2.7	2.1	2.1
77.5°	794.6	227.9	9.7	5.4	4.8	5.4	4.8	3.2	3.2	2.7	2.7
80°	237.0	54.7	7.0	4.3	3.8	4.3	4.8	3.2	2.1	1.6	1.6
82.5°	51.5	12.9	4.3	2.1	2.7	2.1	3.2	3.2	2.1	1.6	1.6
85°	17.2	4.8	2.7	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.1
87.5°	1.1	1.6	1.6	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.1
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)