

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: P401292

Luminaire Tested: **ENT-SA1C-735-U-SL4**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-735-U-SL4
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4018 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - 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

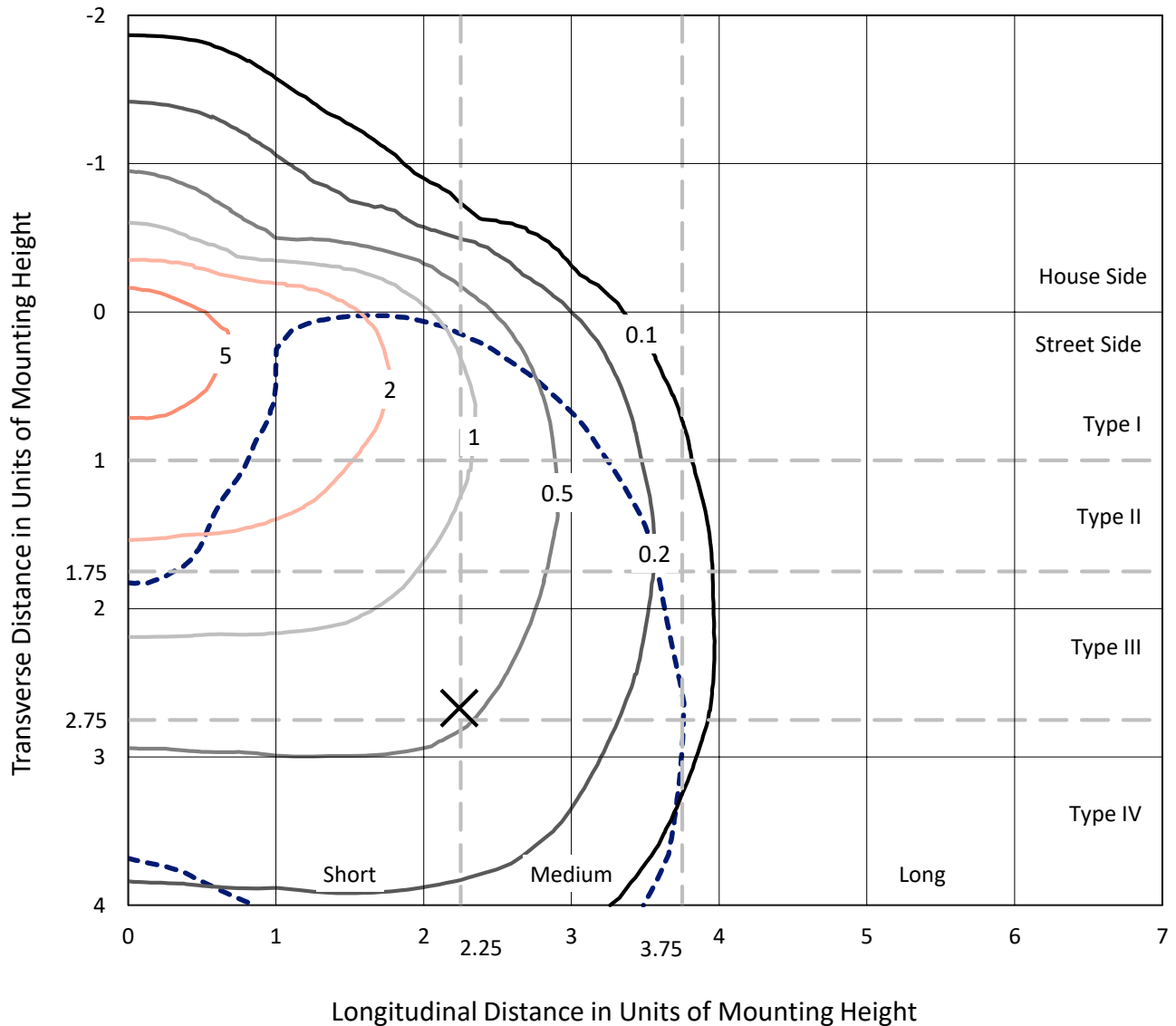


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Iso-Footcandle Lines of Horizontal Illumination

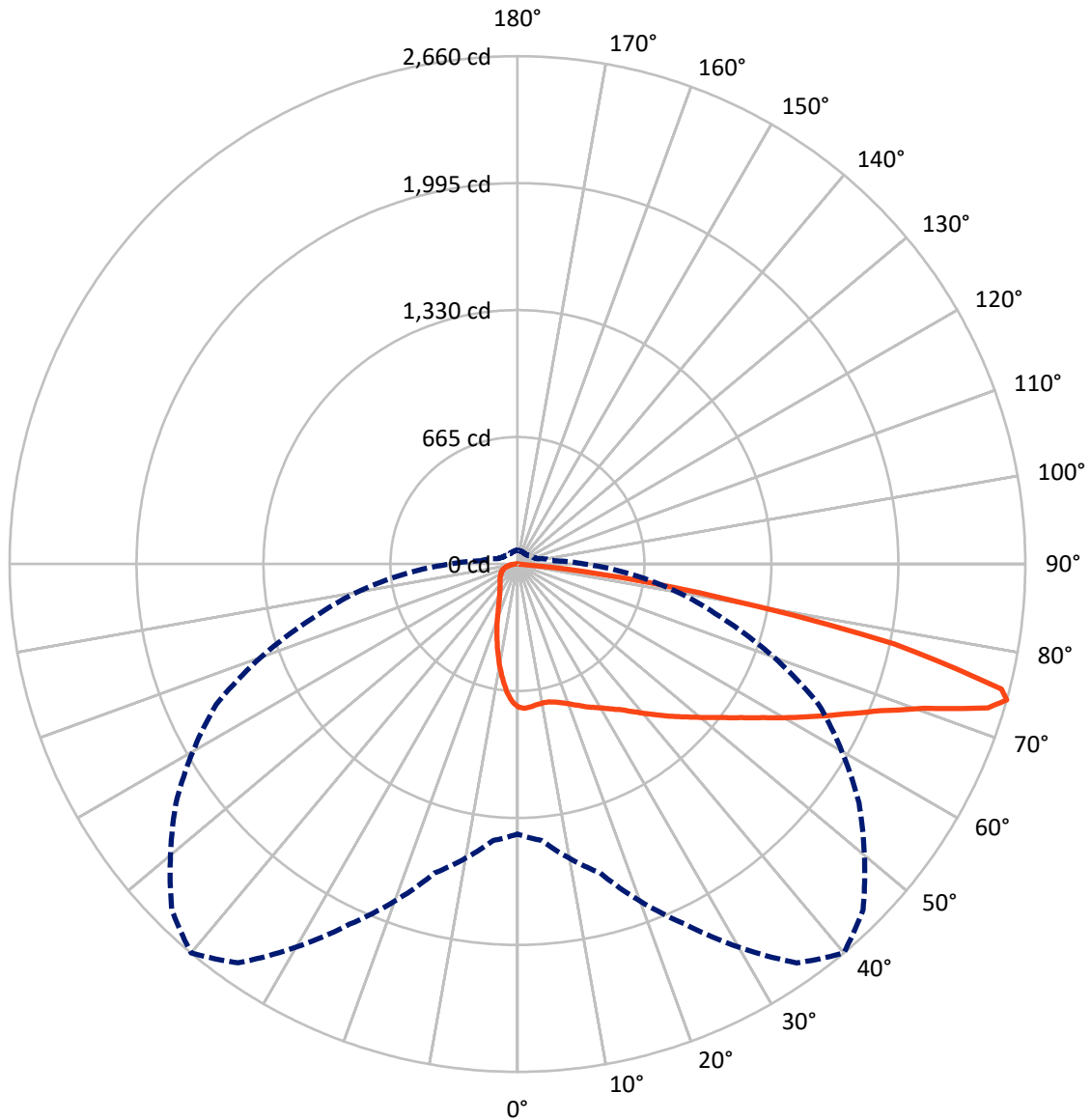
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.5	0.0	626.5
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	3391.5	0.0	3391.5
	% Fixture	84.4	0.0	84.4
Total	Lumens	4018.0	0.0	4018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.6
10°-20°	170.5	4.2
20°-30°	261.5	6.5
30°-40°	377.7	9.4
40°-50°	543.4	13.5
50°-60°	750.3	18.7
60°-70°	946.0	23.5
70°-80°	820.3	20.4
80°-90°	82.1	2.0
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°	4018.0	100.0
0°-180°	4018.0	100.0

Coefficient of Utilization



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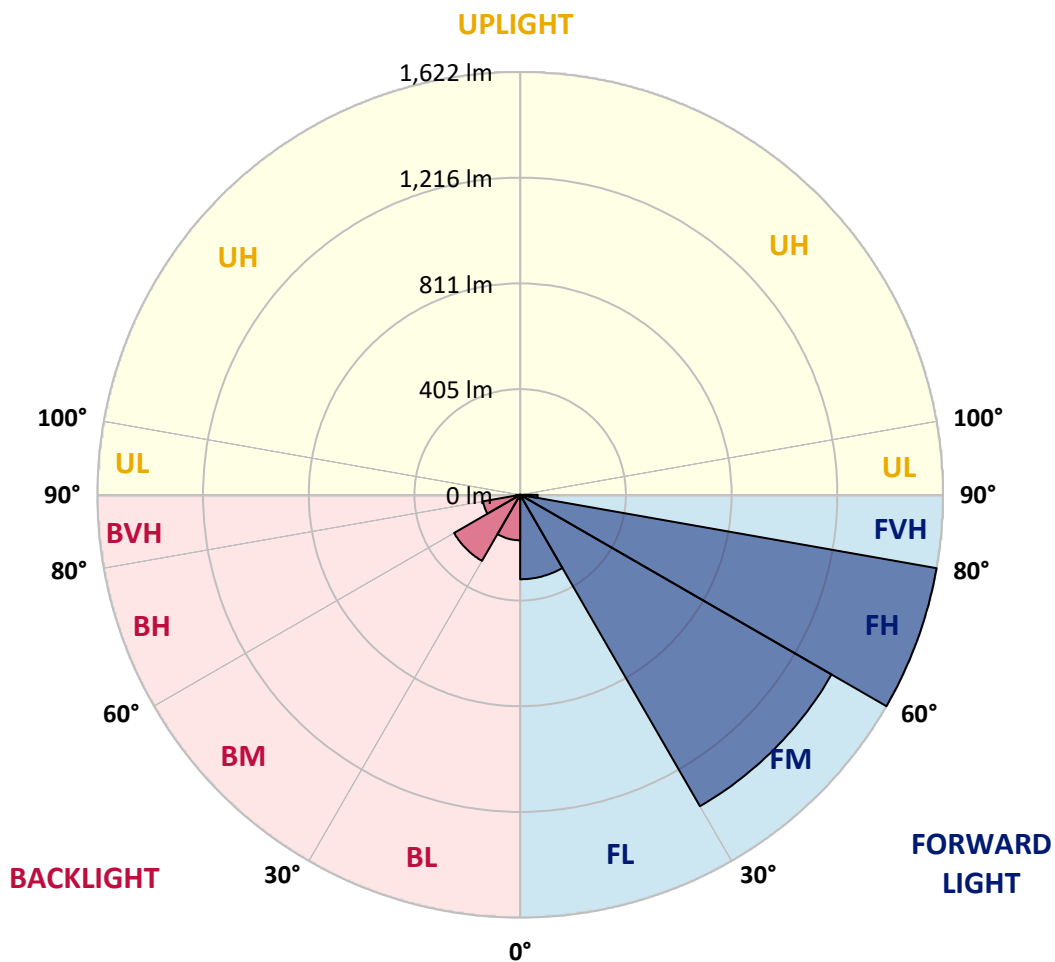
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.9	8.1			
FM (30°-60°)	1378.8	34.3			
FH (60°-80°)	1621.7	40.4			G1/1800
FVH (80°-90°)	67.1	1.7			G1/100
BL (0°-30°)	174.3	4.3	B1/500		
BM (30°-60°)	292.6	7.3	B1/1000		
BH (60°-80°)	144.6	3.6	B1/500		G1/500
BVH (80°-90°)	15.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0
2.5°	759.7	759.0	760.9	759.7	757.8	756.6	756.0	752.4	751.2	747.6	742.8
5°	756.6	756.6	756.6	755.4	751.8	750.6	749.4	744.0	740.4	734.3	725.3
7.5°	746.4	748.2	747.6	747.0	744.0	742.8	741.0	734.3	729.5	720.5	709.0
10°	736.8	736.8	737.4	739.8	738.6	739.2	738.6	731.3	724.7	713.3	698.8
12.5°	722.9	725.3	728.9	735.6	738.6	741.0	741.0	735.6	728.3	714.5	697.6
15°	714.5	717.5	726.5	738.6	745.8	750.0	751.2	744.6	735.6	721.7	703.0
17.5°	710.9	714.5	731.3	748.2	760.9	764.5	765.1	757.8	748.2	731.3	709.6
20°	714.5	718.7	741.0	763.9	778.9	781.9	783.1	772.9	760.9	744.6	716.3
22.5°	728.3	734.3	759.0	783.7	799.4	803.6	802.4	788.0	775.9	758.4	724.7
25°	758.4	762.1	784.3	810.9	822.9	827.7	824.7	808.4	792.8	775.3	736.8
27.5°	793.4	798.2	821.7	841.6	849.4	850.6	847.6	830.7	813.3	798.8	755.4
30°	835.6	839.8	859.0	874.1	874.7	875.3	873.5	854.2	839.8	828.3	782.5
32.5°	880.1	880.7	900.6	907.8	903.0	904.8	903.0	881.9	871.7	868.1	818.1
35°	921.1	921.7	942.2	944.6	936.8	937.4	941.0	916.3	916.3	924.7	871.1
37.5°	960.3	962.1	980.1	977.7	974.7	980.1	985.0	963.9	975.9	1000.0	935.6
40°	989.8	994.0	1018.1	1016.9	1023.5	1028.9	1033.1	1022.3	1041.6	1088.6	1015.1
42.5°	1009.1	1017.5	1051.8	1060.3	1071.7	1081.3	1088.6	1088.0	1121.7	1186.8	1099.4
45°	1028.9	1037.4	1083.1	1103.6	1122.9	1138.0	1151.8	1159.1	1212.7	1290.4	1197.6
47.5°	1053.0	1060.3	1111.5	1151.8	1176.5	1197.0	1221.7	1237.4	1305.4	1395.8	1288.6
50°	1089.8	1094.6	1140.4	1203.0	1234.4	1262.7	1293.4	1325.3	1405.4	1503.6	1368.1
52.5°	1137.4	1140.4	1174.1	1254.8	1304.8	1335.0	1380.7	1422.9	1507.3	1601.2	1433.2
55°	1191.6	1189.2	1215.1	1316.9	1375.3	1420.5	1477.1	1519.9	1614.5	1686.2	1485.0
57.5°	1245.8	1244.0	1264.5	1376.5	1464.5	1517.5	1575.9	1621.1	1712.7	1765.7	1522.3
60°	1297.6	1291.0	1319.9	1446.4	1572.3	1633.2	1685.6	1727.1	1805.4	1822.9	1542.2
62.5°	1343.4	1343.4	1385.6	1532.6	1701.2	1756.1	1797.6	1825.3	1894.0	1865.1	1534.4
65°	1385.6	1391.0	1451.2	1628.9	1835.0	1891.0	1927.1	1938.0	1982.0	1866.9	1468.1
67.5°	1433.2	1441.6	1526.5	1741.6	1989.2	2048.8	2080.2	2076.5	2044.6	1839.2	1325.9
70°	1479.5	1493.4	1619.9	1886.8	2179.6	2260.3	2294.6	2223.5	2077.1	1685.6	1101.2
72.5°	1513.3	1536.8	1696.4	2032.0	2452.4	2576.5	2562.7	2263.9	1924.7	1389.2	833.1
74°	1414.5	1453.6	1675.3	2082.0	2550.6	2659.7	2560.3	2183.8	1741.0	1118.7	590.4
75°	1299.4	1337.4	1568.7	2062.1	2569.3	2618.1	2436.2	2042.8	1561.5	866.9	385.5
77.5°	962.1	991.6	1204.8	1625.9	2032.0	2017.5	1813.9	1384.4	769.3	261.4	162.7
80°	424.7	447.0	594.6	818.1	1100.6	1096.4	1021.1	636.2	248.2	136.7	99.4
82.5°	128.3	127.7	171.1	238.6	418.1	425.9	362.1	219.3	118.7	56.6	48.2
85°	0.6	0.6	0.6	0.6	1.8	15.7	13.3	42.2	21.7	10.2	17.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
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°	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0
2.5°	739.8	739.2	737.4	733.1	730.1	721.1	724.1	718.1	717.5	716.3	715.7
5°	721.1	718.7	711.5	703.0	693.4	678.3	673.5	664.5	659.0	657.2	658.4
7.5°	701.8	696.4	682.5	664.5	645.2	622.9	606.6	594.0	584.9	581.9	577.7
10°	689.8	680.7	657.2	627.1	595.8	564.5	537.4	518.7	504.8	494.0	494.0
12.5°	685.6	673.5	639.2	595.2	550.0	505.4	466.3	441.6	418.1	406.6	404.8
15°	688.0	671.1	624.1	566.3	506.0	448.2	400.0	364.5	342.2	328.3	333.1
17.5°	690.4	669.3	608.4	535.6	463.3	396.4	340.4	300.0	272.9	265.7	262.7
20°	693.4	665.7	588.6	502.4	419.3	346.4	287.4	246.4	225.9	216.9	216.9
22.5°	697.6	660.9	568.1	465.7	374.1	297.6	242.8	212.1	195.8	190.4	190.4
25°	703.6	657.8	547.0	428.9	331.3	259.0	213.3	189.2	180.7	177.1	176.5
27.5°	715.1	658.4	526.5	391.6	289.2	226.5	192.2	176.5	169.9	168.1	167.5
30°	732.5	664.5	504.8	351.8	251.8	201.8	177.7	166.9	162.7	161.4	161.4
32.5°	756.6	675.3	486.8	316.3	224.1	181.9	165.7	158.4	156.0	154.8	155.4
35°	794.0	694.0	465.1	283.7	198.2	168.1	156.0	150.6	148.8	148.8	149.4
37.5°	842.8	722.9	444.0	253.6	180.7	156.0	147.0	144.0	142.2	143.4	144.0
40°	904.2	757.2	424.1	226.5	166.3	146.4	139.2	136.7	136.1	137.4	138.6
42.5°	970.5	798.8	406.0	204.2	154.8	138.6	132.5	131.3	130.7	131.3	133.1
45°	1047.6	846.4	391.0	187.4	146.4	131.9	126.5	125.3	124.7	125.9	127.1
47.5°	1118.7	889.2	378.9	175.9	139.2	127.1	121.7	119.9	119.9	119.9	121.1
50°	1176.5	922.9	371.7	168.1	133.1	121.7	116.9	115.1	114.5	113.9	114.5
52.5°	1226.5	948.2	369.3	163.3	128.3	116.9	112.0	110.8	109.6	108.4	109.0
55°	1259.7	960.9	364.5	159.0	124.1	111.4	107.2	106.0	104.8	103.0	103.0
57.5°	1278.9	959.7	353.6	156.6	121.7	106.6	102.4	102.4	101.2	98.2	98.8
60°	1280.7	938.6	327.1	153.6	119.9	101.8	97.0	98.2	98.2	95.8	95.8
62.5°	1250.0	883.1	275.9	145.8	117.5	98.2	92.8	95.8	97.0	94.6	94.6
65°	1155.4	752.4	221.7	134.3	111.4	94.0	88.0	94.0	97.6	95.8	95.2
67.5°	974.1	595.8	183.1	121.7	104.8	88.6	83.1	91.0	95.8	95.8	95.2
70°	781.9	452.4	150.6	107.8	94.6	81.9	77.7	84.3	88.6	89.8	89.8
72.5°	538.6	276.5	122.3	92.8	83.1	74.1	70.5	74.7	77.1	79.5	78.9
74°	347.6	194.0	107.2	84.3	75.9	68.1	66.3	68.1	69.3	71.7	72.3
75°	232.5	158.4	100.0	78.3	71.7	63.9	62.7	64.5	65.7	67.5	67.5
77.5°	133.7	113.3	80.7	65.1	59.6	54.8	54.2	54.8	56.6	58.4	57.8
80°	92.8	86.1	63.9	50.6	47.0	44.6	45.2	45.8	48.8	49.4	48.8
82.5°	56.0	62.0	45.2	38.0	35.5	34.9	36.7	38.0	40.4	41.0	40.4
85°	22.3	29.5	22.3	21.1	23.5	25.9	28.9	30.7	31.9	31.9	31.9
87.5°	0.0	4.2	5.4	8.4	13.3	15.7	20.5	22.3	23.5	22.9	22.3
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)