

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: P401255

Luminaire Tested: **ENV-SA1C-727-U-SL4-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1C-727-U-SL4-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3096 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

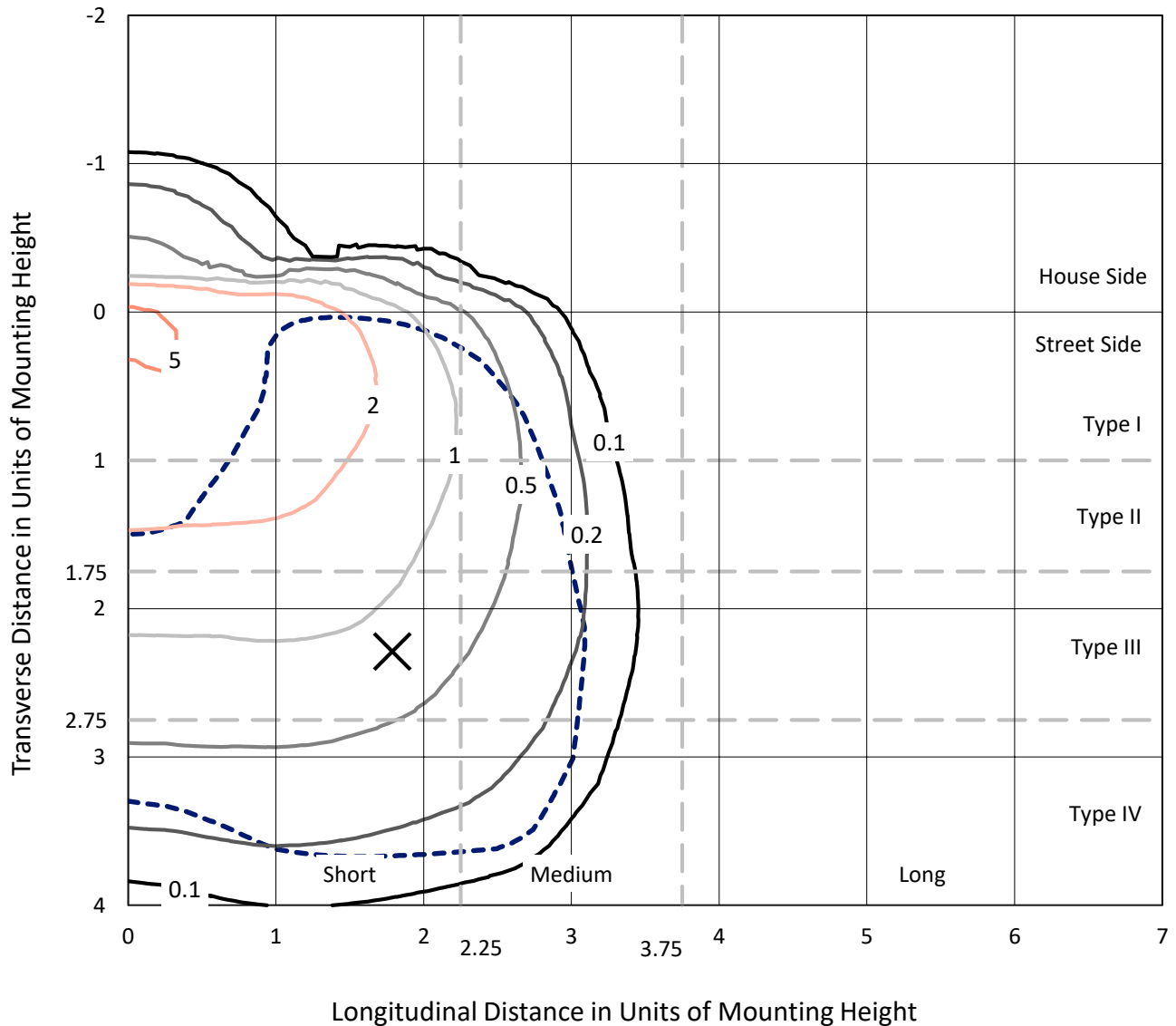
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

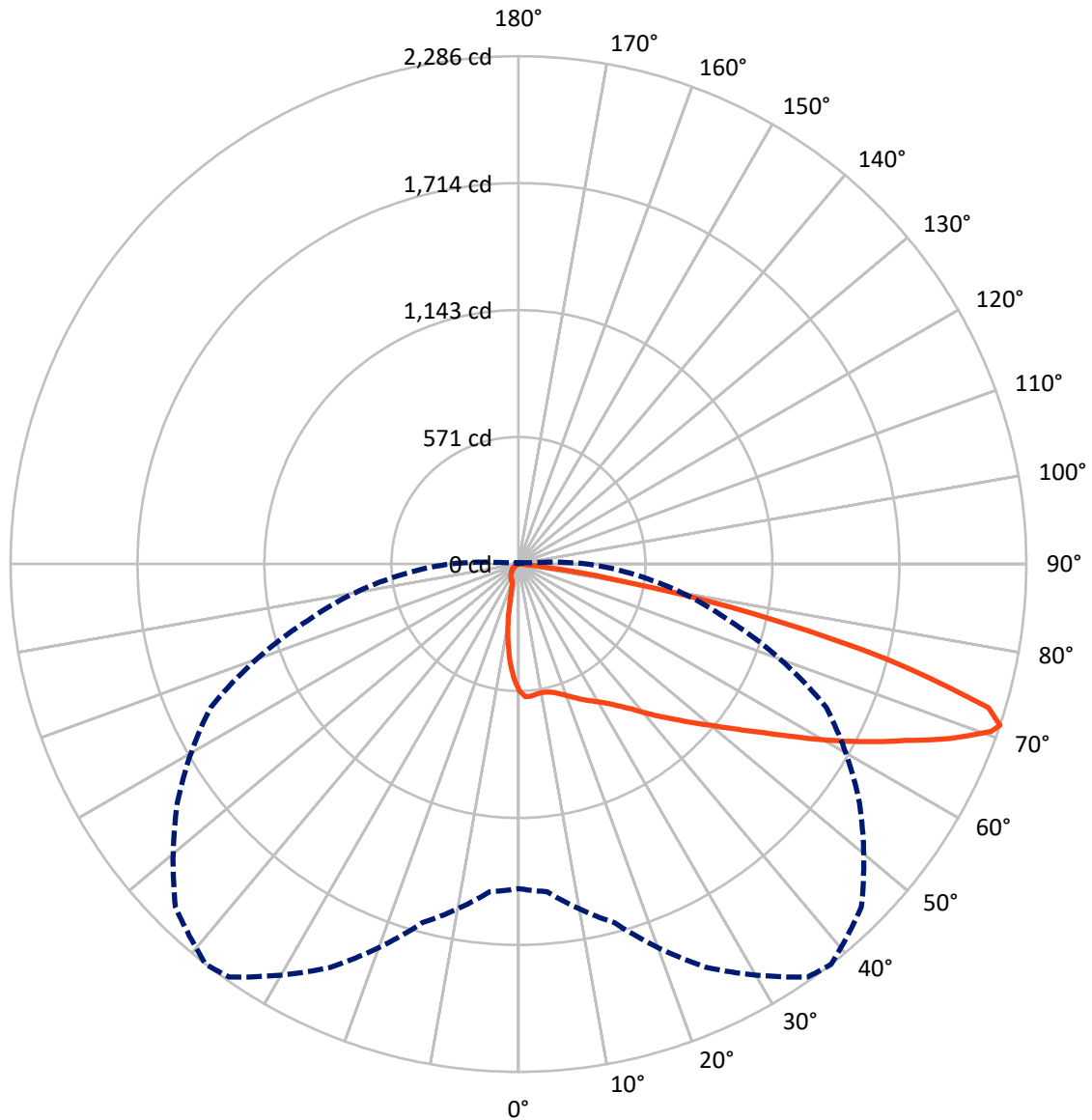
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	264.5	0.0	264.5
	% Fixture	8.5	0.0	8.5
<b>Street Side</b>	Lumens	2831.5	0.0	2831.5
	% Fixture	91.5	0.0	91.5
<b>Total</b>	Lumens	3096.0	0.0	3096.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	1.6
10°-20°	116.7	3.8
20°-30°	187.2	6.0
30°-40°	284.7	9.2
40°-50°	443.7	14.3
50°-60°	648.9	21.0
60°-70°	832.3	26.9
70°-80°	508.7	16.4
80°-90°	25.5	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°	3096.0	100.0
0°-180°	3096.0	100.0



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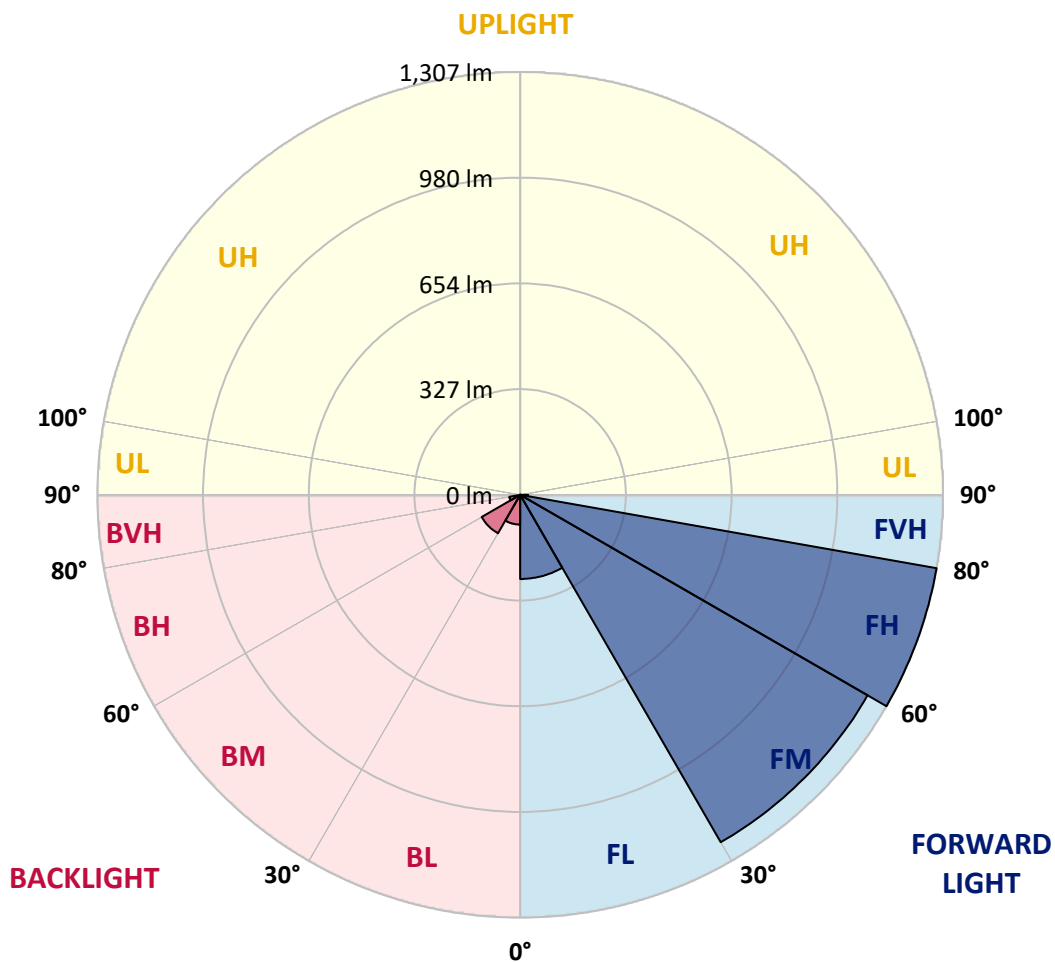
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.1	8.4			
FM (30°-60°)	1240.0	40.1			
FH (60°-80°)	1307.0	42.2			G1/1800
FVH (80°-90°)	24.4	0.8			G1/100
BL (0°-30°)	92.0	3.0	B0/110		
BM (30°-60°)	137.4	4.4	B0/220		
BH (60°-80°)	34.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	604.5	602.9	604.5	602.9	599.7	598.1	596.0	590.1	584.7	578.3	568.6
5°	605.6	604.5	604.5	602.4	598.6	597.0	594.9	589.0	582.0	572.4	557.9
7.5°	599.7	599.2	598.1	596.0	591.7	590.6	589.0	582.0	575.0	564.9	547.2
10°	590.1	591.1	590.6	590.6	589.0	587.9	586.8	578.8	571.3	559.5	540.7
12.5°	580.9	582.0	584.7	589.0	590.6	591.1	591.1	583.1	574.0	561.1	541.8
15°	575.0	577.2	584.7	593.3	598.1	599.7	601.3	592.7	582.0	568.1	547.7
17.5°	573.4	576.7	591.1	604.5	613.7	614.7	614.7	604.0	592.7	576.7	554.7
20°	578.8	583.1	601.9	620.6	631.9	633.0	630.8	616.9	603.5	585.8	560.6
22.5°	594.9	598.6	620.1	642.1	652.8	653.9	649.1	629.8	615.3	600.8	568.6
25°	622.8	624.9	648.0	668.9	674.8	676.4	668.4	645.3	628.7	615.3	579.9
27.5°	659.8	660.9	681.8	697.3	698.4	697.9	689.3	665.2	648.5	637.3	597.0
30°	698.4	700.0	717.2	727.4	723.1	721.0	713.4	687.7	672.7	664.1	621.7
32.5°	734.4	736.0	754.7	760.1	750.5	748.8	743.5	716.1	703.3	707.5	657.1
35°	769.8	769.8	791.2	793.9	785.3	785.3	785.3	752.6	750.5	764.9	706.5
37.5°	801.4	806.8	829.3	828.2	826.6	827.7	830.9	806.2	813.8	838.4	771.4
40°	828.2	835.2	865.2	867.9	874.9	880.8	885.6	872.8	890.5	930.7	854.5
42.5°	852.4	860.4	899.0	911.4	930.7	938.7	947.9	944.6	983.8	1057.3	960.7
45°	883.5	892.1	931.8	961.3	988.1	998.8	1019.2	1033.2	1098.1	1181.7	1075.5
47.5°	924.8	930.7	967.2	1013.8	1050.3	1069.6	1101.3	1137.2	1216.1	1313.7	1178.0
50°	981.1	981.7	1009.0	1069.6	1123.8	1144.7	1199.4	1246.1	1344.8	1430.1	1252.0
52.5°	1043.3	1040.1	1061.6	1138.3	1207.0	1235.4	1299.8	1364.7	1463.9	1514.3	1285.3
55°	1102.3	1104.0	1117.4	1211.2	1311.6	1338.9	1420.4	1486.4	1572.8	1565.8	1303.5
57.5°	1170.5	1169.9	1187.1	1291.2	1433.9	1465.5	1550.8	1605.0	1638.8	1602.8	1306.7
60°	1234.8	1233.2	1259.5	1386.7	1564.2	1610.9	1687.6	1685.4	1704.8	1626.4	1304.0
62.5°	1292.2	1296.0	1342.1	1497.7	1710.1	1760.5	1799.2	1772.3	1777.7	1653.8	1270.8
65°	1362.0	1369.0	1443.5	1632.3	1890.4	1914.5	1929.5	1886.1	1832.4	1631.8	1169.9
67.5°	1450.0	1470.9	1576.0	1830.8	2078.1	2094.7	2095.3	1954.7	1830.3	1520.8	983.8
70°	1484.8	1506.8	1674.2	1988.0	2236.3	2257.3	2191.8	1944.0	1686.0	1190.9	664.1
71°	1460.7	1480.5	1671.5	2003.0	2269.1	2285.7	2183.2	1873.7	1528.8	981.1	514.4
72.5°	1286.3	1337.8	1568.5	1908.6	2210.6	2211.1	2044.3	1708.0	1216.1	612.6	258.6
75°	694.7	756.9	1149.6	1452.6	1705.3	1718.7	1572.8	1186.0	588.5	158.8	62.8
77.5°	229.1	258.0	515.5	754.2	1069.6	1090.5	961.8	526.8	185.6	53.6	32.7
80°	143.8	147.0	174.3	317.0	475.8	493.5	395.9	213.5	83.7	29.5	22.5
82.5°	24.1	29.0	82.1	93.3	167.9	133.0	90.1	108.9	39.2	13.4	19.3
85°	0.0	0.0	0.5	0.5	2.7	0.5	0.5	22.0	2.1	2.1	10.2
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	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°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	564.3	560.0	551.4	542.3	531.1	521.4	518.2	511.2	508.0	505.3	505.3
5°	548.8	541.3	523.0	504.2	486.0	466.7	449.0	432.4	424.3	413.0	418.4
7.5°	535.9	523.0	497.3	467.8	430.2	392.1	362.6	336.9	315.4	308.4	303.6
10°	526.8	510.7	473.1	428.1	373.4	319.2	273.6	231.2	206.5	191.5	191.5
12.5°	525.7	505.3	456.5	387.3	308.4	235.0	178.6	138.4	118.5	109.4	108.9
15°	529.4	504.8	441.5	350.3	248.9	163.1	111.6	93.9	89.0	88.0	88.0
17.5°	532.7	504.2	423.8	308.4	183.5	107.3	88.5	85.3	84.2	83.7	83.7
20°	535.9	501.6	403.4	261.2	129.8	87.4	82.6	81.0	80.5	79.9	79.9
22.5°	540.2	498.9	382.5	207.6	96.0	81.5	78.9	77.2	76.7	76.7	76.7
25°	546.1	497.3	356.7	157.2	82.6	77.2	74.6	73.5	73.5	73.0	73.0
27.5°	557.3	498.9	328.8	112.6	77.2	73.0	71.3	70.3	70.3	69.7	69.7
30°	572.9	503.7	294.0	88.0	73.0	68.7	67.1	66.5	66.0	66.0	66.0
32.5°	594.9	511.2	255.9	75.1	67.6	64.4	62.8	62.2	62.2	62.2	61.7
35°	628.7	526.8	209.2	68.7	62.8	59.5	57.9	57.9	57.9	57.4	57.9
37.5°	680.2	552.0	162.0	63.3	57.4	54.7	53.6	53.1	53.1	53.1	53.1
40°	745.1	592.7	118.0	58.5	52.6	49.9	48.8	48.3	47.7	47.7	47.7
42.5°	828.8	637.8	85.8	53.1	48.3	45.6	44.5	43.5	42.4	41.8	41.8
45°	915.7	691.4	67.1	48.8	44.0	41.8	40.8	39.2	37.5	35.9	35.9
47.5°	999.9	732.8	57.4	44.0	40.2	38.1	37.0	34.9	32.2	30.6	30.6
50°	1053.0	745.6	51.5	39.7	36.5	34.9	33.3	30.6	26.8	25.2	25.2
52.5°	1069.6	722.0	46.1	35.9	33.3	31.6	29.5	25.7	22.0	19.8	19.8
55°	1076.1	676.4	40.8	33.3	30.0	27.9	25.2	21.5	17.7	15.6	15.6
57.5°	1068.0	612.1	36.5	30.0	26.8	24.7	21.5	17.2	13.4	11.8	11.8
60°	1040.7	518.7	32.7	26.8	23.6	20.9	17.7	13.4	10.2	8.0	8.6
62.5°	966.6	401.2	28.4	22.5	20.4	17.7	13.9	10.2	6.4	5.4	5.4
65°	848.6	277.9	24.1	18.8	17.2	14.5	10.7	7.0	3.8	3.2	3.2
67.5°	689.3	179.7	18.8	15.6	14.5	11.8	8.0	4.3	2.1	2.1	1.6
70°	432.9	89.0	15.0	11.8	11.8	9.1	5.9	2.7	1.6	1.6	1.6
71°	306.3	60.6	13.4	10.7	10.7	8.6	5.4	2.1	1.6	1.6	1.6
72.5°	138.4	38.1	11.3	9.7	9.1	7.0	4.8	2.1	2.1	2.1	2.1
75°	43.5	20.9	8.0	7.5	7.5	5.9	4.3	2.7	2.7	2.7	2.7
77.5°	29.0	16.1	5.4	4.8	5.9	5.9	4.3	3.2	3.2	3.2	3.2
80°	23.6	8.6	3.2	3.2	4.3	5.4	4.3	3.2	3.8	3.2	3.2
82.5°	23.1	4.3	1.1	1.6	2.7	3.2	3.2	2.7	3.2	3.2	3.2
85°	9.7	1.1	0.5	1.1	1.1	1.6	1.6	2.1	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.1	1.6	2.1	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

(END OF REPORT)