

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: McGRAW-EDISON

Report Number: P594053

Luminaire Tested: **ISC-PA1B-730-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1B-730-U-T4W-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3602 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

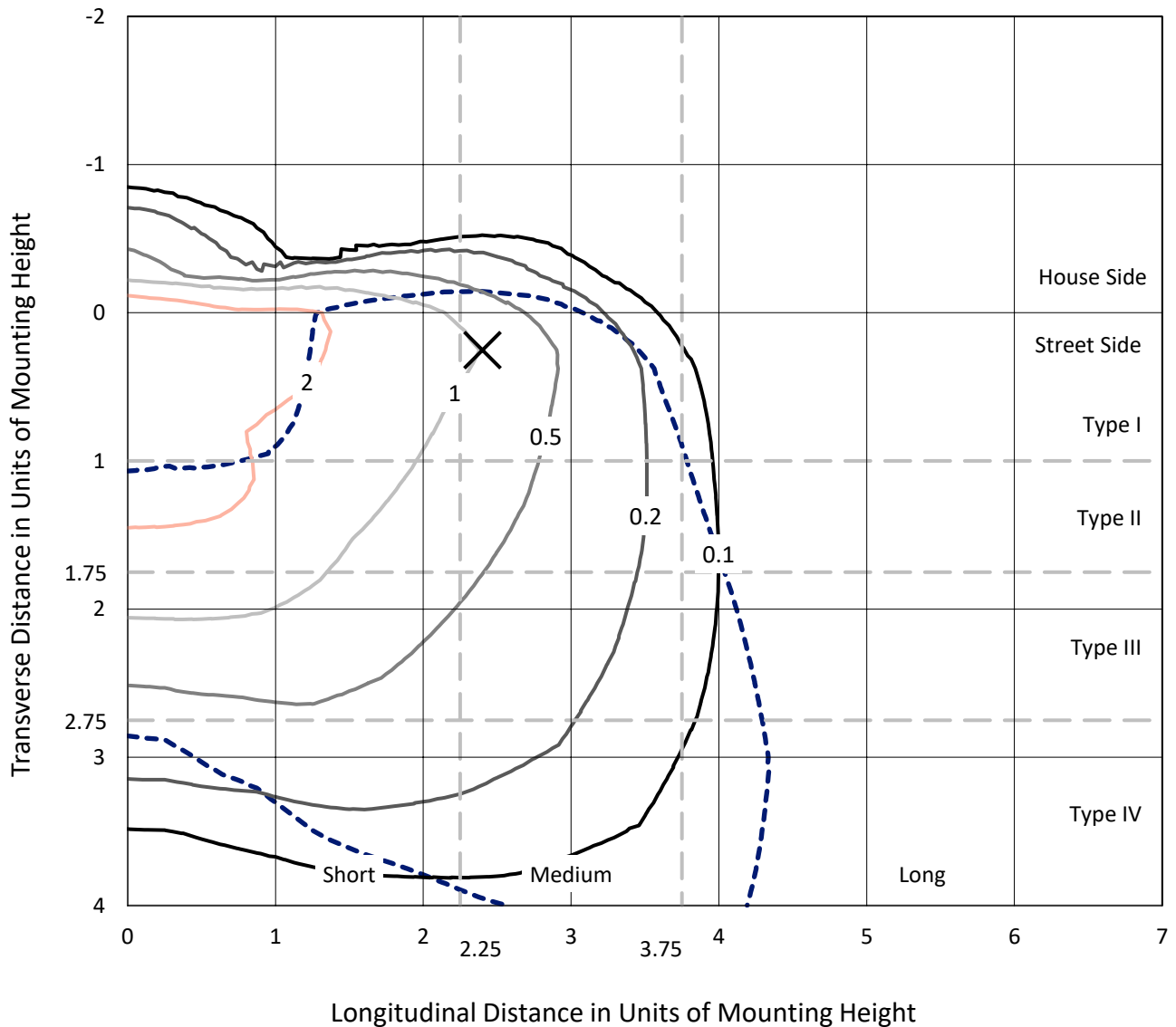
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

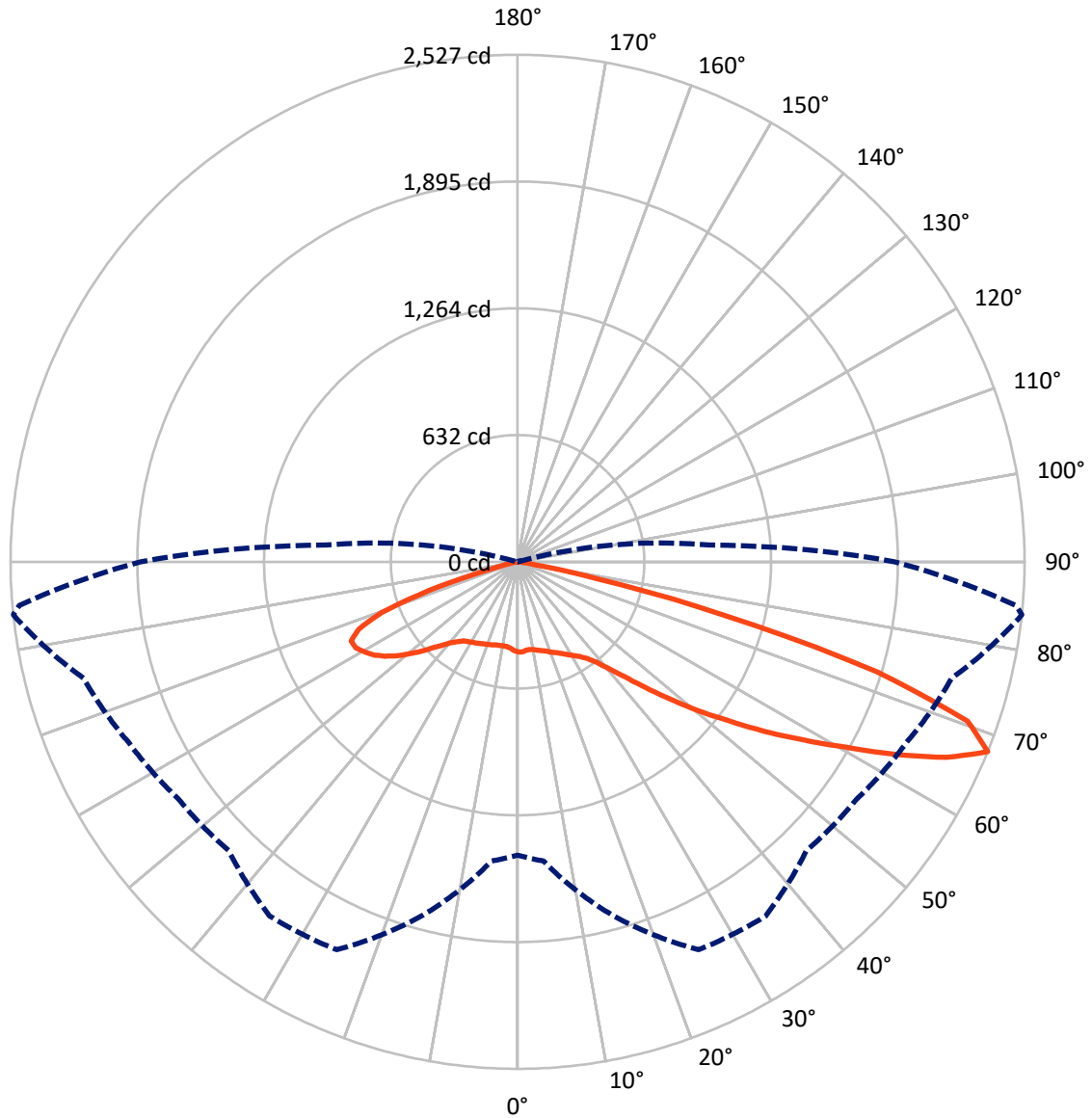
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	313.6	0.0	313.6
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3288.4	0.0	3288.4
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3602.0	0.0	3602.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	1.1
10°-20°	105.2	2.9
20°-30°	168.6	4.7
30°-40°	242.6	6.7
40°-50°	416.4	11.6
50°-60°	727.4	20.2
60°-70°	1041.7	28.9
70°-80°	783.0	21.7
80°-90°	76.8	2.1
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°	3602.0	100.0
0°-180°	3602.0	100.0

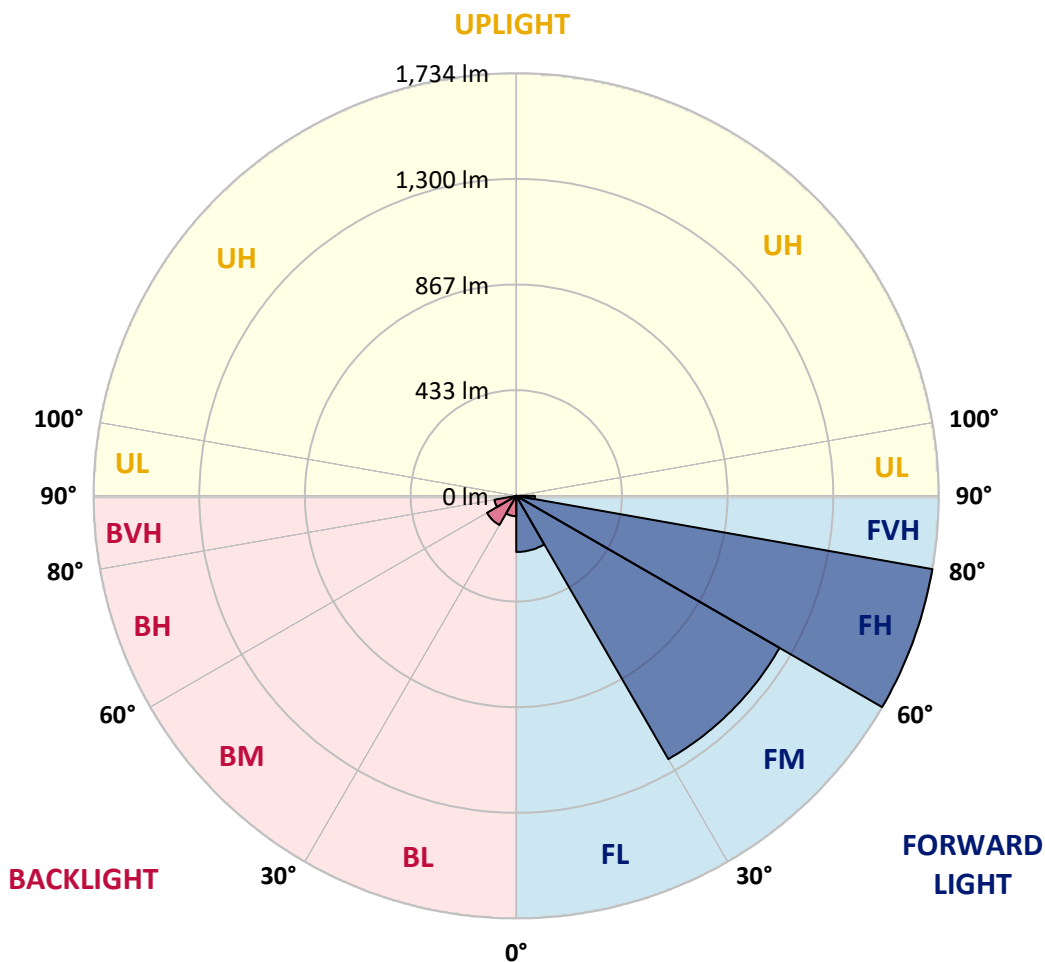


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.3	6.4			
FM (30°-60°)	1247.7	34.6			
FH (60°-80°)	1733.8	48.1			G1/1800
FVH (80°-90°)	76.6	2.1			G1/100
BL (0°-30°)	83.8	2.3	B0/110		
BM (30°-60°)	138.7	3.9	B0/220		
BH (60°-80°)	90.9	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8
2.5°	474.3	476.7	478.0	471.9	471.9	467.0	459.7	457.3	453.6	450.0	448.8
5°	498.6	502.3	501.1	493.8	490.1	480.4	470.7	460.9	451.2	442.7	442.7
7.5°	526.6	527.8	524.2	512.0	504.7	491.3	476.7	465.8	453.6	441.5	439.0
10°	550.9	549.7	544.8	532.7	519.3	502.3	486.5	474.3	459.7	445.1	443.9
12.5°	568.0	569.2	563.1	546.1	532.7	513.2	497.4	485.3	468.2	452.4	448.8
15°	582.5	586.2	578.9	561.9	542.4	525.4	513.2	497.4	478.0	459.7	457.3
17.5°	595.9	597.1	591.1	571.6	553.4	538.8	525.4	510.8	491.3	468.2	465.8
20°	603.2	606.9	603.2	578.9	561.9	550.9	540.0	525.4	503.5	481.6	479.2
22.5°	608.1	611.7	610.5	583.8	569.2	560.7	550.9	537.5	516.9	491.3	488.9
25°	610.5	612.9	615.4	588.6	576.5	572.8	564.3	552.1	532.7	505.9	503.5
27.5°	614.2	616.6	619.0	594.7	589.8	586.2	583.8	574.0	550.9	523.0	519.3
30°	620.2	623.9	626.3	605.7	605.7	609.3	609.3	595.9	570.4	541.2	538.8
32.5°	627.5	628.8	633.6	616.6	622.7	631.2	628.8	615.4	588.6	561.9	558.2
35°	647.0	647.0	655.5	633.6	640.9	648.2	650.6	640.9	616.6	589.8	588.6
37.5°	694.4	694.4	701.7	666.5	665.2	672.5	681.1	681.1	656.7	632.4	630.0
40°	801.5	801.5	801.5	720.0	706.6	715.1	728.5	735.8	715.1	698.1	698.1
42.5°	980.2	981.4	963.2	818.5	761.3	775.9	790.5	806.3	795.4	783.2	780.8
45°	1165.1	1159.0	1156.6	963.2	858.6	851.3	869.6	896.3	900.0	892.7	897.5
47.5°	1291.6	1297.7	1301.3	1143.2	994.8	945.0	962.0	999.7	1021.6	1020.4	1027.7
50°	1414.4	1418.1	1421.7	1341.4	1174.8	1062.9	1073.9	1125.0	1155.4	1165.1	1170.0
52.5°	1521.4	1511.7	1527.5	1516.6	1365.8	1197.9	1197.9	1256.3	1311.0	1314.7	1313.5
55°	1553.0	1559.1	1606.6	1639.4	1561.6	1363.3	1339.0	1401.0	1459.4	1489.8	1489.8
57.5°	1623.6	1629.7	1686.8	1761.0	1703.9	1526.3	1489.8	1550.6	1613.9	1672.2	1680.7
60°	1716.0	1717.2	1778.0	1891.1	1812.1	1673.4	1643.0	1712.4	1775.6	1875.3	1903.3
62.5°	1765.9	1770.7	1854.7	2003.0	1948.3	1802.4	1795.1	1858.3	1939.8	2114.9	2140.5
65°	1689.3	1720.9	1903.3	2069.9	2059.0	1922.8	1948.3	1999.4	2093.0	2349.6	2374.0
67.5°	1461.8	1497.1	1823.0	2133.2	2155.0	2035.9	2062.6	2136.8	2240.2	2527.2	2493.1
70°	1346.3	1375.5	1628.4	2168.4	2235.3	2162.3	2174.5	2243.8	2274.2	2378.8	2342.3
72.5°	1020.4	1050.8	1377.9	2048.0	2304.6	2294.9	2264.5	2207.3	2027.4	1871.7	1782.9
75°	451.2	486.5	917.0	1600.5	2133.2	2370.3	2209.8	1889.9	1455.8	1062.9	985.1
77.5°	199.5	220.1	355.1	889.0	1602.9	2051.7	1747.6	1259.9	730.9	395.3	367.3
80°	64.5	66.9	111.9	311.3	819.7	1358.5	1070.2	605.7	225.0	92.4	86.3
82.5°	25.5	28.0	53.5	131.3	339.3	540.0	525.4	218.9	65.7	24.3	24.3
85°	7.3	8.5	26.8	69.3	120.4	152.0	186.1	73.0	35.3	7.3	7.3
87.5°	2.4	2.4	9.7	21.9	23.1	15.8	35.3	28.0	21.9	2.4	2.4
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°	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8
2.5°	446.3	443.9	437.8	433.0	430.5	426.9	422.0	419.6	419.6	418.4	414.7
5°	437.8	434.2	423.2	415.9	409.8	396.5	386.7	374.6	362.4	358.8	362.4
7.5°	434.2	426.9	412.3	397.7	372.1	336.9	313.8	288.2	279.7	268.8	270.0
10°	435.4	426.9	406.2	373.4	323.5	271.2	234.7	200.7	183.6	175.1	176.3
12.5°	439.0	429.3	400.1	340.5	268.8	205.5	149.6	122.8	118.0	118.0	118.0
15°	446.3	431.7	390.4	301.6	210.4	136.2	105.8	103.4	107.0	110.7	111.9
17.5°	453.6	439.0	375.8	261.5	153.2	102.2	98.5	98.5	102.2	105.8	107.0
20°	462.1	446.3	355.1	218.9	109.5	96.1	94.9	93.6	96.1	99.7	100.9
22.5°	475.5	453.6	330.8	169.0	94.9	92.4	90.0	88.8	90.0	93.6	94.9
25°	487.7	463.4	305.3	125.3	88.8	86.3	85.1	83.9	83.9	86.3	87.6
27.5°	502.3	474.3	277.3	93.6	81.5	80.3	79.1	77.8	76.6	79.1	80.3
30°	520.5	484.0	246.9	79.1	74.2	73.0	71.8	70.5	69.3	70.5	71.8
32.5°	543.6	497.4	211.6	71.8	68.1	64.5	63.2	63.2	62.0	62.0	63.2
35°	574.0	512.0	173.9	66.9	62.0	58.4	54.7	53.5	53.5	53.5	54.7
37.5°	619.0	538.8	137.4	62.0	57.2	51.1	47.4	43.8	43.8	43.8	43.8
40°	681.1	568.0	107.0	58.4	53.5	45.0	40.1	35.3	32.8	31.6	32.8
42.5°	777.1	611.7	82.7	53.5	51.1	40.1	32.8	26.8	21.9	20.7	21.9
45°	882.9	659.2	65.7	49.9	46.2	34.1	25.5	18.2	13.4	12.2	13.4
47.5°	1016.7	718.8	55.9	45.0	40.1	28.0	18.2	9.7	6.1	7.3	7.3
50°	1145.6	777.1	51.1	41.3	35.3	23.1	10.9	4.9	2.4	3.6	3.6
52.5°	1287.9	839.2	47.4	36.5	30.4	17.0	6.1	1.2	0.0	1.2	1.2
55°	1431.4	895.1	43.8	32.8	24.3	12.2	2.4	0.0	0.0	0.0	1.2
57.5°	1587.1	942.5	40.1	28.0	18.2	7.3	1.2	0.0	0.0	0.0	0.0
60°	1717.2	979.0	36.5	24.3	12.2	3.6	0.0	0.0	0.0	0.0	0.0
62.5°	1836.4	1011.9	28.0	18.2	7.3	2.4	0.0	0.0	0.0	0.0	0.0
65°	1915.5	1019.1	19.5	12.2	4.9	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1880.2	955.9	12.2	8.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0
70°	1652.8	802.7	8.5	4.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1156.6	518.1	7.3	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	610.5	187.3	4.9	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	216.5	41.3	2.4	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
80°	47.4	8.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)