

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: P594719

Luminaire Tested: **ISS-PA1D-735-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594719  
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: ISS-PA1D-735-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 800mA 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: 5993 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

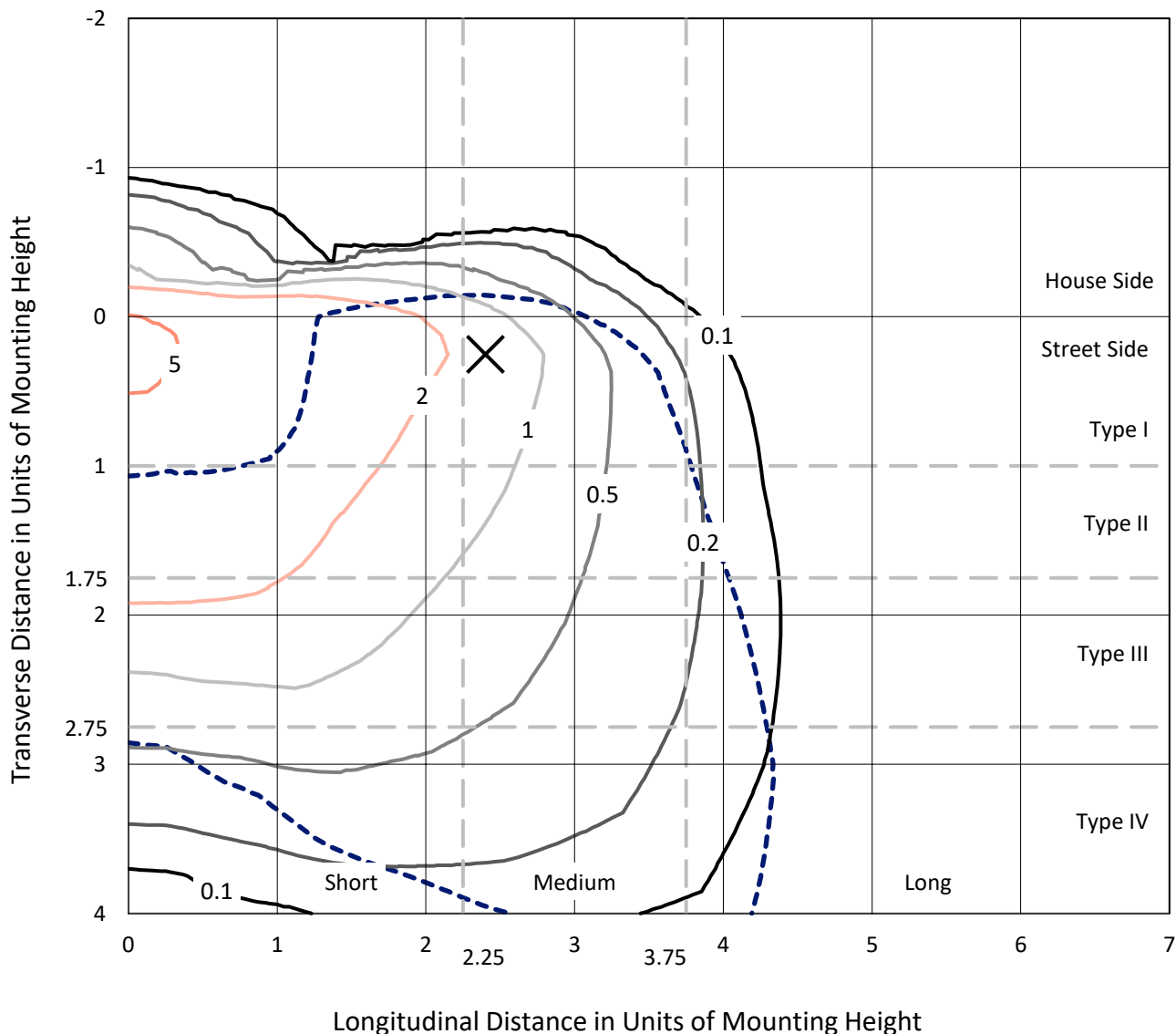
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594719  
 CATALOG NUMBER: ISS-PA1D-735-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

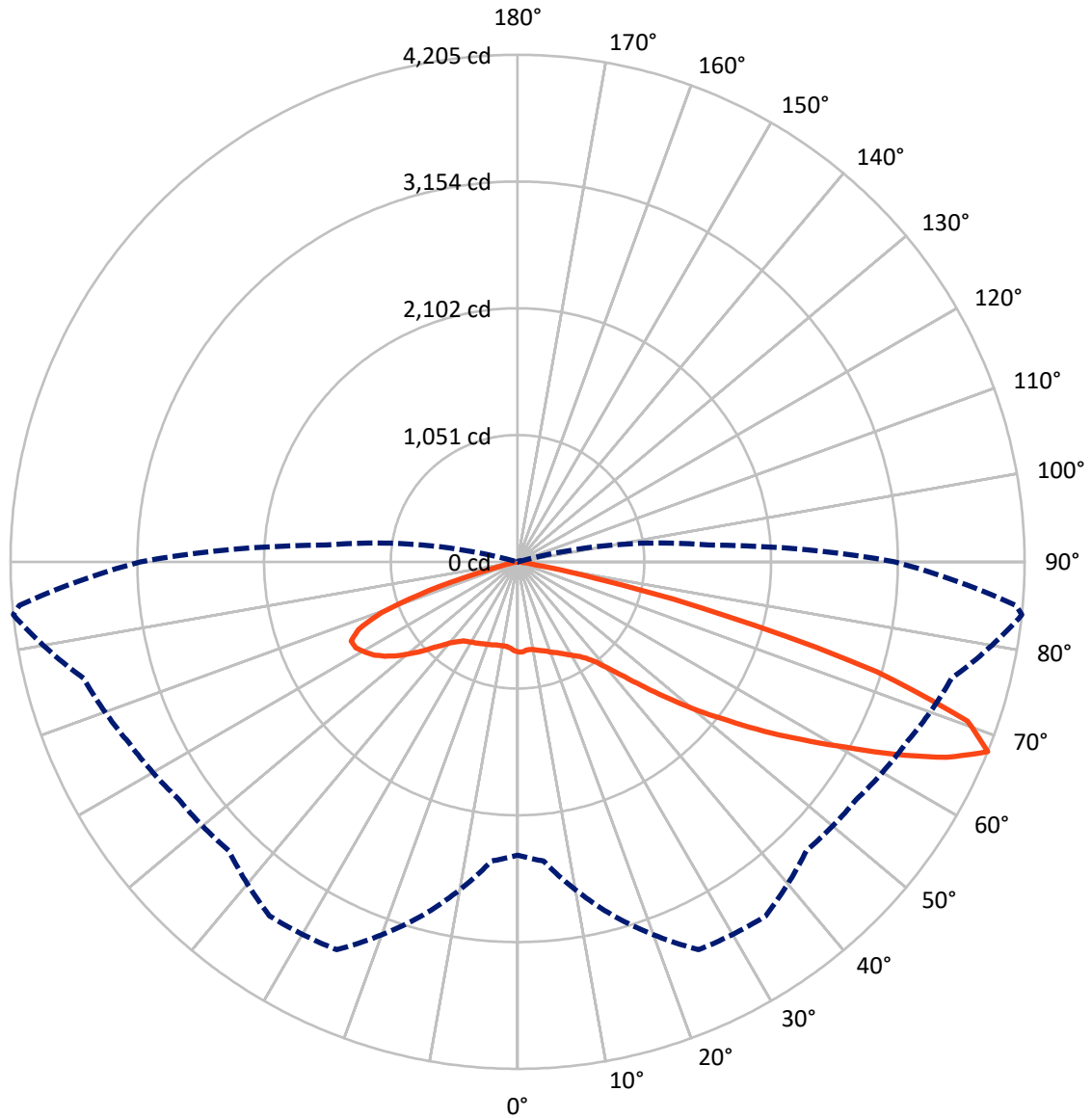
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P594719  
CATALOG NUMBER: ISS-PA1D-735-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P594719  
 CATALOG NUMBER: ISS-PA1D-735-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	521.8	0.0	521.8
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	5471.2	0.0	5471.2
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	5993.0	0.0	5993.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	1.1
10°-20°	175.1	2.9
20°-30°	280.5	4.7
30°-40°	403.6	6.7
40°-50°	692.7	11.6
50°-60°	1210.3	20.2
60°-70°	1733.2	28.9
70°-80°	1302.7	21.7
80°-90°	127.9	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°	5993.0	100.0
0°-180°	5993.0	100.0

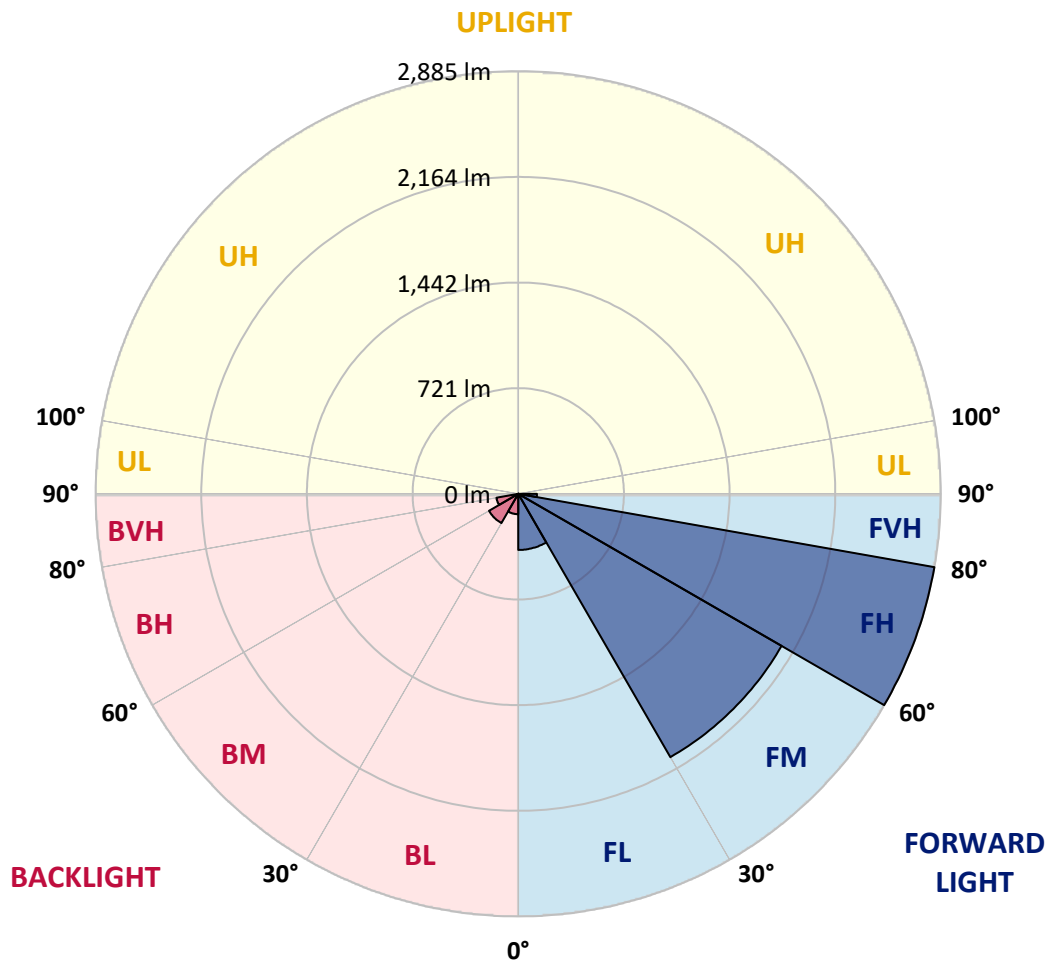


REPORT NUMBER: P594719  
 CATALOG NUMBER: ISS-PA1D-735-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.1	6.4			
FM (30°-60°)	2075.9	34.6			
FH (60°-80°)	2884.7	48.1			G2/5000
FVH (80°-90°)	127.5	2.1			G2/225
BL (0°-30°)	139.3	2.3	B1/500		
BM (30°-60°)	230.8	3.9	B1/1000		
BH (60°-80°)	151.3	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





REPORT NUMBER: P594719  
 CATALOG NUMBER: ISS-PA1D-735-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7
2.5°	789.1	793.2	795.2	785.1	785.1	777.0	764.9	760.8	754.7	748.7	746.7
5°	829.6	835.7	833.7	821.5	815.5	799.3	783.1	766.9	750.7	736.5	736.5
7.5°	876.2	878.2	872.1	851.9	839.7	817.5	793.2	775.0	754.7	734.5	730.5
10°	916.6	914.6	906.5	886.3	864.0	835.7	809.4	789.1	764.9	740.6	738.6
12.5°	945.0	947.0	936.9	908.5	886.3	853.9	827.6	807.4	779.0	752.7	746.7
15°	969.2	975.3	963.2	934.8	902.5	874.1	853.9	827.6	795.2	764.9	760.8
17.5°	991.5	993.5	983.4	951.0	920.7	896.4	874.1	849.9	817.5	779.0	775.0
20°	1003.6	1009.7	1003.6	963.2	934.8	916.6	898.4	874.1	837.7	801.3	797.2
22.5°	1011.7	1017.8	1015.8	971.3	947.0	932.8	916.6	894.4	860.0	817.5	813.4
25°	1015.8	1019.8	1023.9	979.4	959.1	953.0	938.9	918.6	886.3	841.8	837.7
27.5°	1021.8	1025.9	1029.9	989.5	981.4	975.3	971.3	955.1	916.6	870.1	864.0
30°	1032.0	1038.0	1042.1	1007.7	1007.7	1013.8	1013.8	991.5	949.0	900.4	896.4
32.5°	1044.1	1046.1	1054.2	1025.9	1036.0	1050.2	1046.1	1023.9	979.4	934.8	928.8
35°	1076.5	1076.5	1090.6	1054.2	1066.4	1078.5	1082.5	1066.4	1025.9	981.4	979.4
37.5°	1155.4	1155.4	1167.5	1108.9	1106.8	1119.0	1133.1	1133.1	1092.7	1052.2	1048.2
40°	1333.5	1333.5	1333.5	1197.9	1175.6	1189.8	1212.1	1224.2	1189.8	1161.5	1161.5
42.5°	1630.9	1632.9	1602.6	1361.8	1266.7	1291.0	1315.2	1341.6	1323.3	1303.1	1299.1
45°	1938.5	1928.4	1924.3	1602.6	1428.6	1416.4	1446.8	1491.3	1497.4	1485.2	1493.3
47.5°	2148.9	2159.0	2165.1	1902.0	1655.2	1572.2	1600.6	1663.3	1699.7	1697.7	1709.8
50°	2353.3	2359.4	2365.4	2231.9	1954.7	1768.5	1786.7	1871.7	1922.3	1938.5	1946.6
52.5°	2531.3	2515.2	2541.5	2523.3	2272.3	1993.1	1993.1	2090.2	2181.3	2187.4	2185.3
55°	2584.0	2594.1	2673.0	2727.6	2598.1	2268.3	2227.8	2331.0	2428.1	2478.7	2478.7
57.5°	2701.3	2711.4	2806.5	2930.0	2834.9	2539.4	2478.7	2579.9	2685.1	2782.3	2796.4
60°	2855.1	2857.1	2958.3	3146.5	3015.0	2784.3	2733.7	2849.0	2954.2	3120.2	3166.7
62.5°	2938.1	2946.2	3085.8	3332.6	3241.6	2998.8	2986.6	3091.8	3227.4	3518.8	3561.3
65°	2810.6	2863.2	3166.7	3443.9	3425.7	3199.1	3241.6	3326.6	3482.4	3909.3	3949.8
67.5°	2432.2	2490.9	3033.2	3549.1	3585.6	3387.3	3431.8	3555.2	3727.2	4204.7	4148.1
70°	2240.0	2288.5	2709.4	3607.8	3719.1	3597.7	3617.9	3733.3	3783.9	3957.9	3897.2
72.5°	1697.7	1748.3	2292.6	3407.5	3834.5	3818.3	3767.7	3672.6	3373.1	3114.1	2966.4
75°	750.7	809.4	1525.7	2662.9	3549.1	3943.7	3676.6	3144.5	2422.1	1768.5	1639.0
77.5°	331.8	366.2	590.8	1479.1	2666.9	3413.6	2907.7	2096.3	1216.1	657.6	611.1
80°	107.2	111.3	186.2	518.0	1363.8	2260.2	1780.6	1007.7	374.3	153.8	143.7
82.5°	42.5	46.5	89.0	218.5	564.5	898.4	874.1	364.2	109.3	40.5	40.5
85°	12.1	14.2	44.5	115.3	200.3	252.9	309.6	121.4	58.7	12.1	12.1
87.5°	4.0	4.0	16.2	36.4	38.4	26.3	58.7	46.5	36.4	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594719  
 CATALOG NUMBER: ISS-PA1D-735-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7
2.5°	742.6	738.6	728.4	720.4	716.3	710.2	702.1	698.1	698.1	696.1	690.0
5°	728.4	722.4	704.2	692.0	681.9	659.6	643.5	623.2	603.0	596.9	603.0
7.5°	722.4	710.2	686.0	661.7	619.2	560.5	522.1	479.6	465.4	447.2	449.2
10°	724.4	710.2	675.8	621.2	538.2	451.2	390.5	333.9	305.5	291.4	293.4
12.5°	730.5	714.3	665.7	566.6	447.2	342.0	248.9	204.4	196.3	196.3	196.3
15°	742.6	718.3	649.5	501.8	350.1	226.6	176.0	172.0	178.1	184.1	186.2
17.5°	754.7	730.5	625.2	435.0	255.0	170.0	163.9	163.9	170.0	176.0	178.1
20°	768.9	742.6	590.8	364.2	182.1	159.9	157.8	155.8	159.9	165.9	167.9
22.5°	791.2	754.7	550.4	281.3	157.8	153.8	149.7	147.7	149.7	155.8	157.8
25°	811.4	770.9	507.9	208.4	147.7	143.7	141.6	139.6	139.6	143.7	145.7
27.5°	835.7	789.1	461.3	155.8	135.6	133.5	131.5	129.5	127.5	131.5	133.5
30°	866.0	805.3	410.8	131.5	123.4	121.4	119.4	117.4	115.3	117.4	119.4
32.5°	904.5	827.6	352.1	119.4	113.3	107.2	105.2	105.2	103.2	103.2	105.2
35°	955.1	851.9	289.4	111.3	103.2	97.1	91.1	89.0	89.0	89.0	91.1
37.5°	1029.9	896.4	228.7	103.2	95.1	85.0	78.9	72.8	72.8	72.8	72.8
40°	1133.1	945.0	178.1	97.1	89.0	74.9	66.8	58.7	54.6	52.6	54.6
42.5°	1293.0	1017.8	137.6	89.0	85.0	66.8	54.6	44.5	36.4	34.4	36.4
45°	1469.0	1096.7	109.3	83.0	76.9	56.7	42.5	30.4	22.3	20.2	22.3
47.5°	1691.6	1195.9	93.1	74.9	66.8	46.5	30.4	16.2	10.1	12.1	12.1
50°	1906.1	1293.0	85.0	68.8	58.7	38.4	18.2	8.1	4.0	6.1	6.1
52.5°	2142.8	1396.2	78.9	60.7	50.6	28.3	10.1	2.0	0.0	2.0	2.0
55°	2381.6	1489.3	72.8	54.6	40.5	20.2	4.0	0.0	0.0	0.0	2.0
57.5°	2640.6	1568.2	66.8	46.5	30.4	12.1	2.0	0.0	0.0	0.0	0.0
60°	2857.1	1628.9	60.7	40.5	20.2	6.1	0.0	0.0	0.0	0.0	0.0
62.5°	3055.4	1683.5	46.5	30.4	12.1	4.0	0.0	0.0	0.0	0.0	0.0
65°	3186.9	1695.7	32.4	20.2	8.1	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	3128.3	1590.4	20.2	14.2	4.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2749.9	1335.5	14.2	8.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1924.3	862.0	12.1	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1015.8	311.6	8.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	360.2	68.8	4.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	78.9	14.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)