

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: P594641

Luminaire Tested: **ISS-PA1C-740-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-PA1C-740-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5783 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 48.9  
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

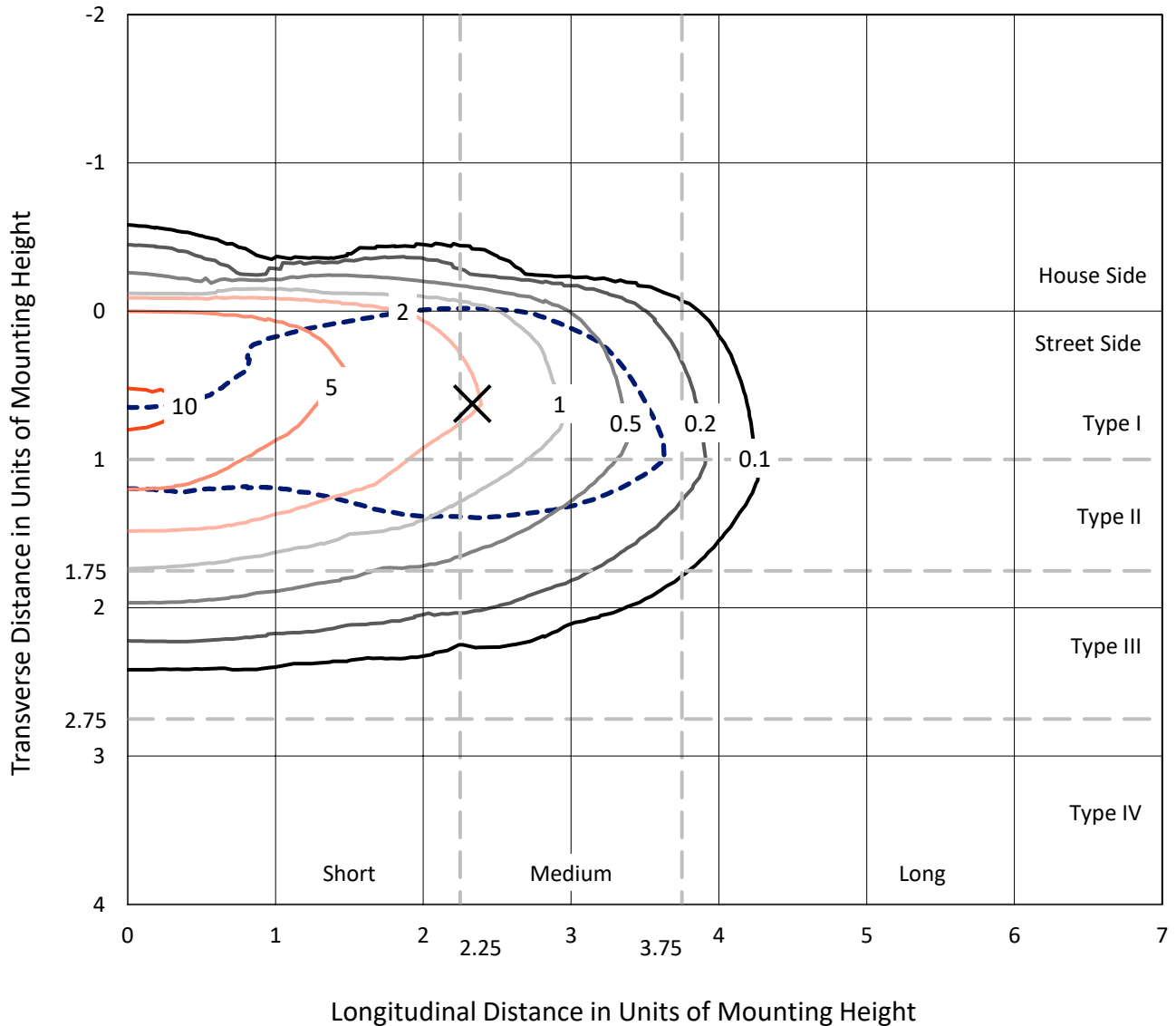




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### Iso-Footcandle Lines of Horizontal Illumination

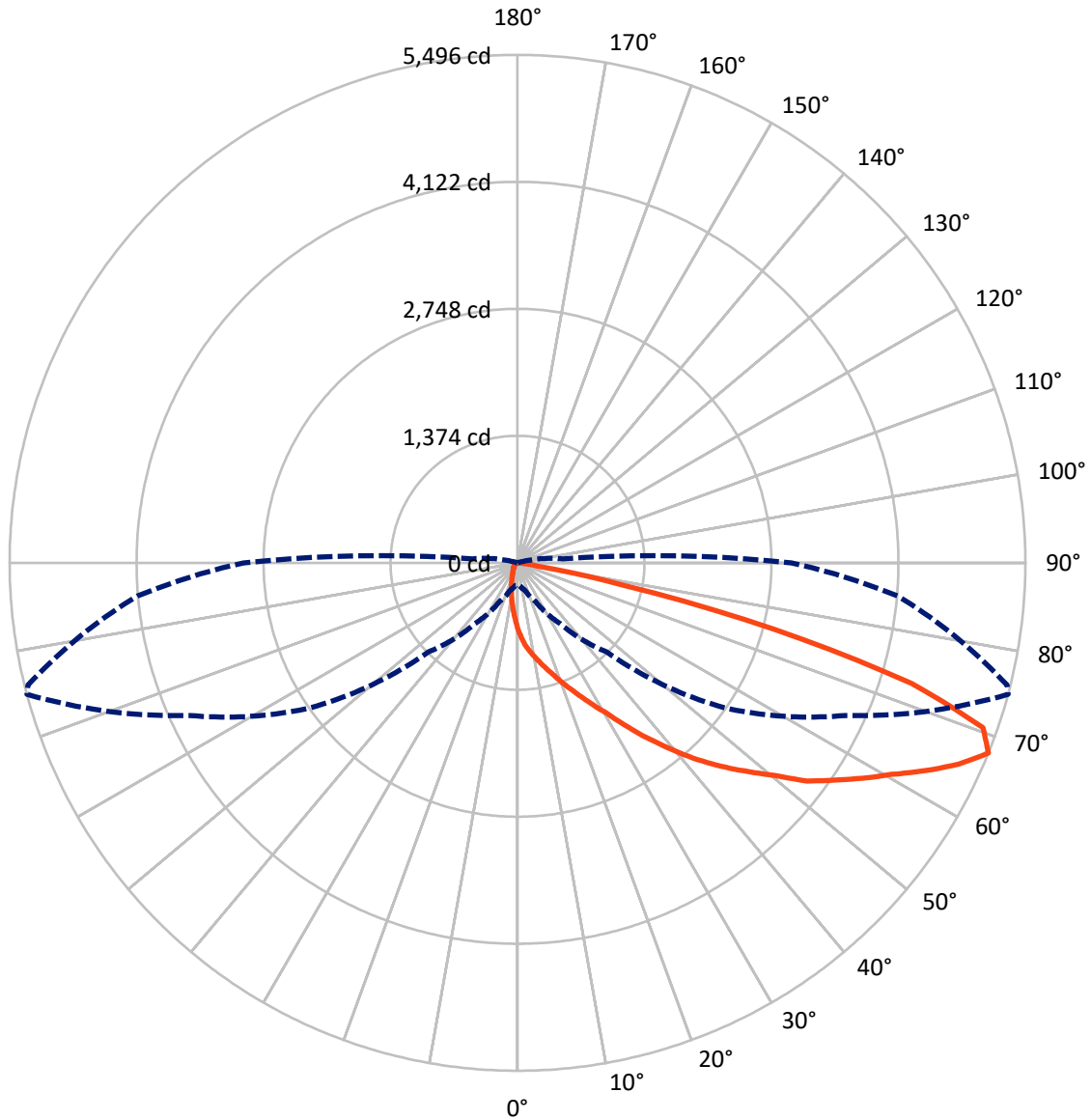
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	291.5	0.0	291.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5491.5	0.0	5491.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5783.0	0.0	5783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	1.1
10°-20°	209.2	3.6
20°-30°	420.5	7.3
30°-40°	795.4	13.8
40°-50°	1189.9	20.6
50°-60°	1373.7	23.8
60°-70°	1217.7	21.1
70°-80°	492.2	8.5
80°-90°	19.6	0.3
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°	5783.0	100.0
0°-180°	5783.0	100.0

**Coefficient of Utilization**

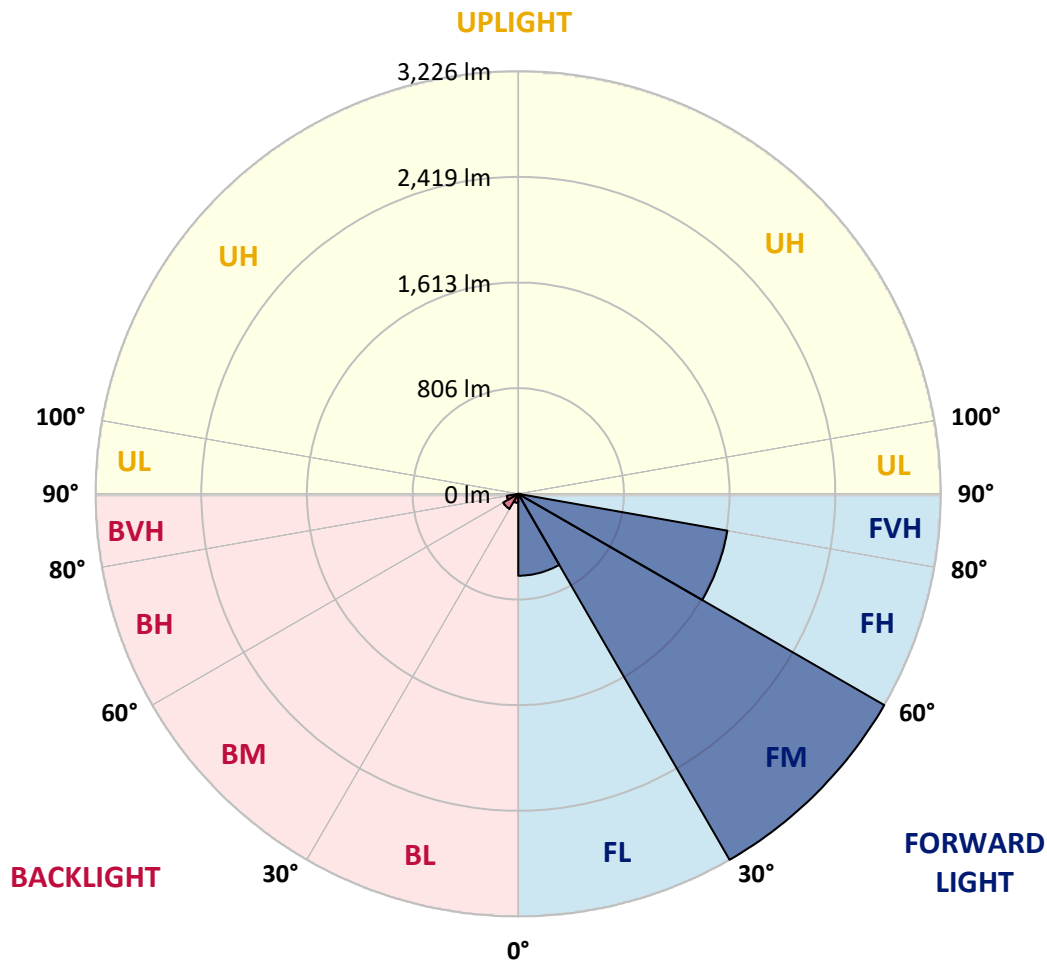


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.2	10.8			
FM (30°-60°)	3226.0	55.8			
FH (60°-80°)	1621.5	28.0			G1/1800
FVH (80°-90°)	18.8	0.3			G1/100
BL (0°-30°)	69.3	1.2	B0/110		
BM (30°-60°)	133.0	2.3	B0/220		
BH (60°-80°)	88.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7
2.5°	999.9	1003.4	996.4	980.8	966.9	934.0	907.9	861.0	810.7	810.7	749.9
5°	1118.0	1114.5	1111.0	1098.9	1088.5	1060.7	1026.0	975.6	897.5	890.6	789.9
7.5°	1175.2	1171.8	1164.8	1159.6	1159.6	1140.5	1107.5	1055.5	968.7	961.7	826.3
10°	1243.0	1236.0	1236.0	1222.1	1218.6	1196.1	1178.7	1133.6	1038.1	1029.4	868.0
12.5°	1322.8	1315.9	1317.6	1305.4	1300.2	1275.9	1251.6	1208.2	1112.8	1104.1	916.6
15°	1367.9	1364.5	1374.9	1376.6	1380.1	1359.3	1336.7	1291.6	1196.1	1183.9	973.9
17.5°	1394.0	1394.0	1406.1	1428.7	1454.7	1442.6	1425.2	1388.8	1281.1	1274.2	1034.6
20°	1444.3	1439.1	1459.9	1480.8	1513.8	1524.2	1519.0	1491.2	1383.6	1362.7	1100.6
22.5°	1527.7	1520.7	1539.8	1565.8	1605.8	1609.2	1612.7	1598.8	1487.7	1466.9	1170.0
25°	1723.8	1706.5	1689.1	1685.6	1701.2	1715.1	1704.7	1715.1	1605.8	1586.7	1244.7
27.5°	2105.7	2076.2	1992.9	1900.9	1836.7	1848.8	1815.8	1834.9	1741.2	1716.9	1314.1
30°	2472.0	2442.5	2374.8	2211.6	2064.1	1998.1	1949.5	1942.5	1880.1	1852.3	1394.0
32.5°	2727.2	2708.1	2663.0	2553.6	2369.6	2201.2	2107.5	2074.5	2065.8	2022.4	1496.4
35°	2900.8	2883.4	2852.2	2763.7	2628.3	2440.8	2279.3	2206.4	2272.4	2220.3	1612.7
37.5°	3005.0	2992.8	2958.1	2897.3	2824.4	2701.2	2492.8	2376.5	2480.7	2432.1	1762.0
40°	3081.3	3050.1	3025.8	2978.9	2954.6	2914.7	2735.9	2553.6	2706.4	2656.0	1909.6
42.5°	3088.3	3074.4	3055.3	3027.5	3031.0	3057.0	2994.5	2758.5	2933.8	2886.9	2065.8
45°	3086.5	3072.7	3058.8	3031.0	3048.4	3145.6	3202.9	2973.7	3156.0	3107.4	2230.7
47.5°	3036.2	3025.8	3029.3	3029.3	3051.8	3183.8	3364.3	3192.4	3378.2	3331.3	2430.4
50°	2859.1	2869.6	2939.0	2975.4	3015.4	3185.5	3477.1	3421.6	3617.8	3584.8	2623.0
52.5°	2298.4	2357.4	2638.7	2831.4	2947.7	3150.8	3550.1	3662.9	3921.5	3871.2	2841.8
55°	1756.8	1760.3	2031.1	2479.0	2814.0	3088.3	3591.7	3826.1	4152.4	4124.7	3034.5
57.5°	1425.2	1423.5	1557.2	1959.9	2466.8	2989.3	3602.1	3945.9	4397.2	4345.1	3256.7
60°	1164.8	1157.9	1237.7	1486.0	2015.5	2756.7	3563.9	4043.1	4648.9	4629.8	3489.3
62.5°	841.9	848.9	954.8	1147.5	1553.7	2327.9	3482.4	4072.6	4952.7	4933.6	3749.7
65°	484.3	505.2	621.5	826.3	1190.9	1821.0	3249.7	4050.0	5249.6	5247.8	3991.0
67.5°	243.0	244.8	307.3	461.8	800.3	1362.7	2735.9	3907.7	5496.1	5457.9	4129.9
70°	156.2	159.7	180.5	237.8	442.7	944.4	2090.1	3504.9	5341.6	5327.7	3926.8
72.5°	119.8	123.3	140.6	156.2	230.9	536.4	1414.8	2723.7	4459.7	4421.5	3062.2
75°	93.7	95.5	112.8	126.7	154.5	251.7	710.0	1697.8	2873.0	2774.1	1742.9
77.5°	74.6	76.4	85.1	100.7	118.0	140.6	210.1	763.8	1168.3	1043.3	565.9
80°	48.6	50.3	64.2	78.1	100.7	92.0	81.6	220.5	250.0	225.7	100.7
82.5°	27.8	29.5	43.4	62.5	76.4	52.1	46.9	64.2	59.0	57.3	31.2
85°	8.7	8.7	29.5	43.4	34.7	15.6	29.5	22.6	19.1	17.4	10.4
87.5°	1.7	1.7	13.9	15.6	5.2	1.7	3.5	5.2	6.9	8.7	5.2
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°	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7
2.5°	720.4	685.7	621.5	565.9	512.1	465.2	432.3	402.7	381.9	376.7	368.0
5°	725.6	657.9	534.7	430.5	340.2	267.3	225.7	197.9	184.0	175.3	175.3
7.5°	730.8	630.2	453.1	314.2	215.3	163.2	137.1	125.0	119.8	118.0	116.3
10°	741.3	609.3	383.6	225.7	147.6	123.3	112.8	107.6	104.2	102.4	102.4
12.5°	758.6	592.0	319.4	166.7	121.5	109.4	102.4	95.5	92.0	90.3	90.3
15°	781.2	579.8	263.9	133.7	111.1	99.0	90.3	83.3	78.1	76.4	76.4
17.5°	812.4	571.1	217.0	118.0	102.4	88.5	78.1	71.2	66.0	64.2	64.2
20°	843.7	571.1	178.8	109.4	93.7	78.1	67.7	59.0	53.8	52.1	52.1
22.5°	885.3	569.4	149.3	100.7	83.3	67.7	57.3	46.9	43.4	41.7	41.7
25°	920.1	569.4	128.5	92.0	72.9	59.0	46.9	38.2	34.7	33.0	33.0
27.5°	961.7	564.2	109.4	81.6	62.5	48.6	38.2	31.2	27.8	26.0	26.0
30°	998.2	557.2	97.2	72.9	53.8	39.9	31.2	24.3	22.6	22.6	22.6
32.5°	1058.9	552.0	86.8	62.5	45.1	33.0	24.3	19.1	17.4	17.4	17.4
35°	1131.9	552.0	79.9	53.8	38.2	27.8	19.1	15.6	13.9	13.9	13.9
37.5°	1227.3	557.2	71.2	46.9	31.2	22.6	15.6	12.2	10.4	10.4	10.4
40°	1328.0	569.4	64.2	41.7	27.8	17.4	12.2	8.7	6.9	8.7	8.7
42.5°	1447.8	581.5	57.3	36.5	22.6	13.9	8.7	5.2	3.5	5.2	5.2
45°	1565.8	593.7	53.8	31.2	19.1	10.4	5.2	3.5	1.7	3.5	3.5
47.5°	1711.7	623.2	50.3	27.8	15.6	8.7	3.5	1.7	0.0	1.7	1.7
50°	1880.1	656.2	45.1	22.6	12.2	6.9	3.5	0.0	0.0	0.0	0.0
52.5°	2041.5	684.0	39.9	19.1	10.4	5.2	1.7	0.0	0.0	0.0	0.0
55°	2202.9	701.3	34.7	15.6	8.7	5.2	1.7	0.0	0.0	0.0	0.0
57.5°	2376.5	711.7	31.2	13.9	6.9	3.5	1.7	0.0	0.0	0.0	0.0
60°	2569.2	711.7	26.0	12.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0
62.5°	2782.8	690.9	24.3	10.4	5.2	3.5	1.7	0.0	0.0	0.0	0.0
65°	2956.4	616.3	20.8	8.7	5.2	3.5	1.7	0.0	0.0	0.0	0.0
67.5°	2963.3	487.8	19.1	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
70°	2642.1	333.3	15.6	5.2	3.5	3.5	1.7	0.0	0.0	0.0	0.0
72.5°	1977.3	178.8	13.9	5.2	3.5	1.7	1.7	0.0	0.0	0.0	0.0
75°	1065.9	69.4	8.7	5.2	3.5	1.7	1.7	0.0	0.0	0.0	0.0
77.5°	310.7	34.7	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0	0.0
80°	57.3	17.4	3.5	3.5	3.5	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	15.6	6.9	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	6.9	3.5	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.7	1.7	1.7	1.7	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)