

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: P594695

Luminaire Tested: **ISS-PA1D-727-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594695  
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-PA1D-727-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 800mA 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: 6025 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

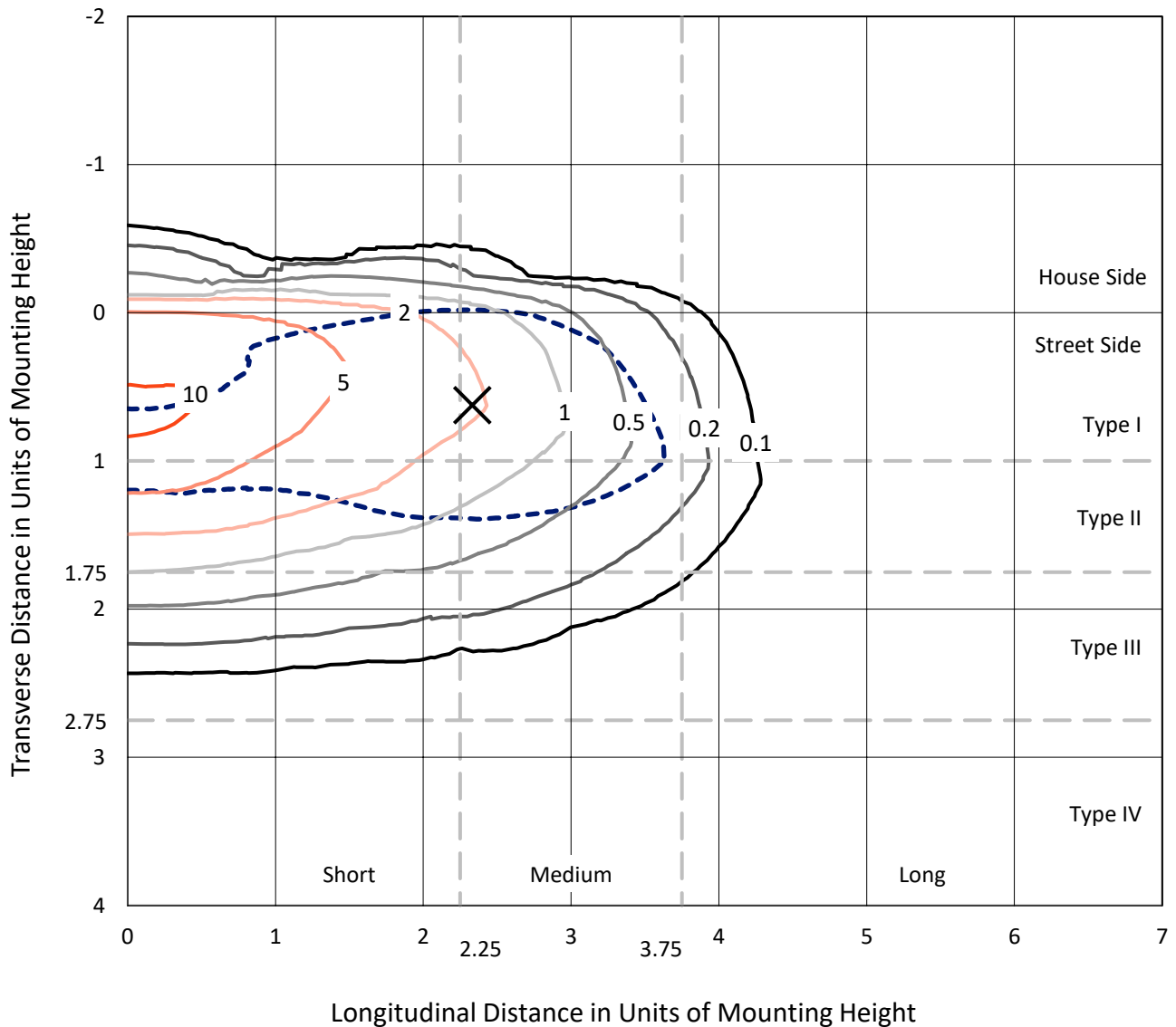
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

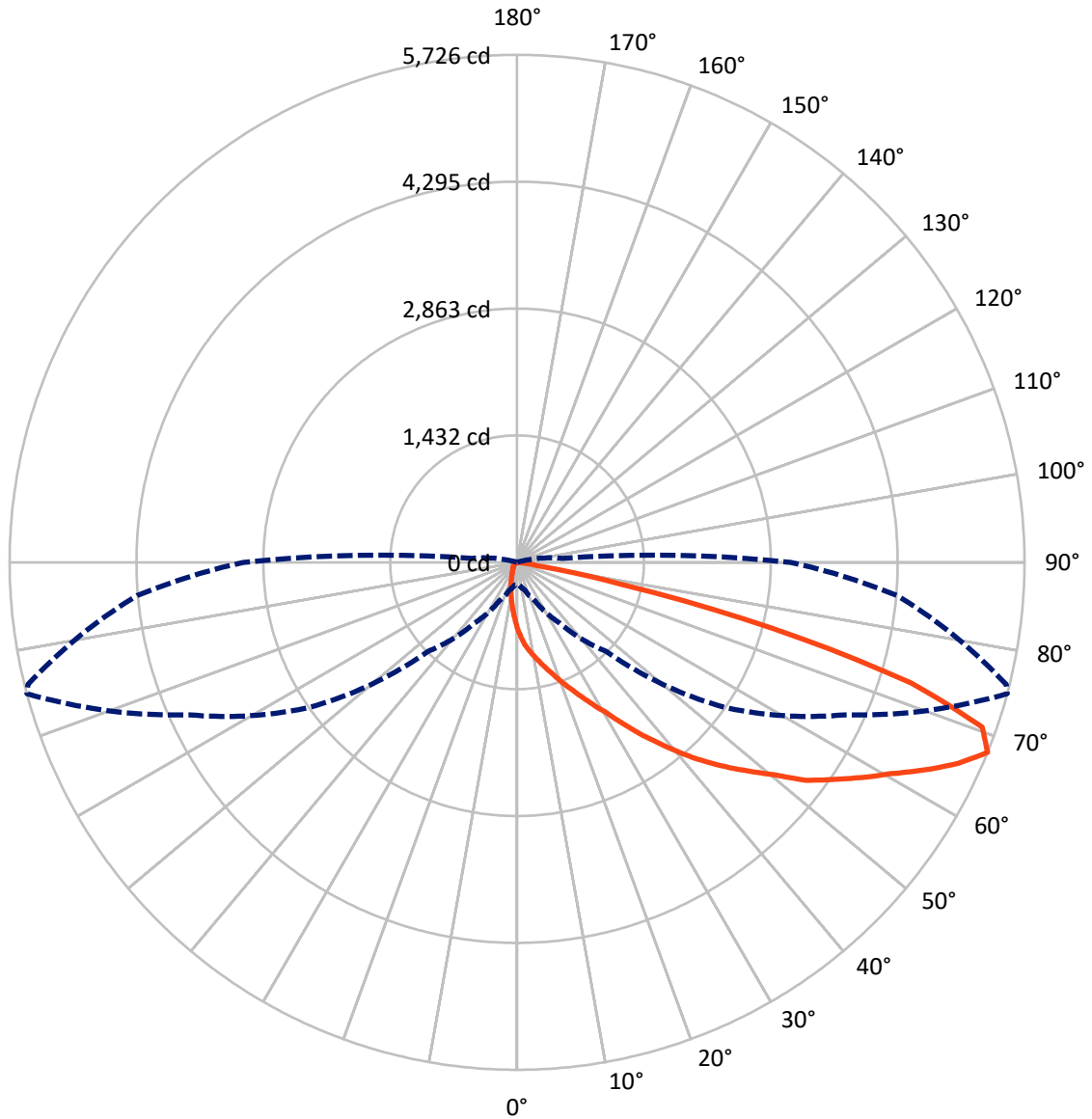
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.8 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	303.7	0.0	303.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5721.3	0.0	5721.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6025.0	0.0	6025.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	1.1
10°-20°	217.9	3.6
20°-30°	438.1	7.3
30°-40°	828.6	13.8
40°-50°	1239.7	20.6
50°-60°	1431.2	23.8
60°-70°	1268.7	21.1
70°-80°	512.8	8.5
80°-90°	20.4	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°	6025.0	100.0
0°-180°	6025.0	100.0

**Coefficient of Utilization**

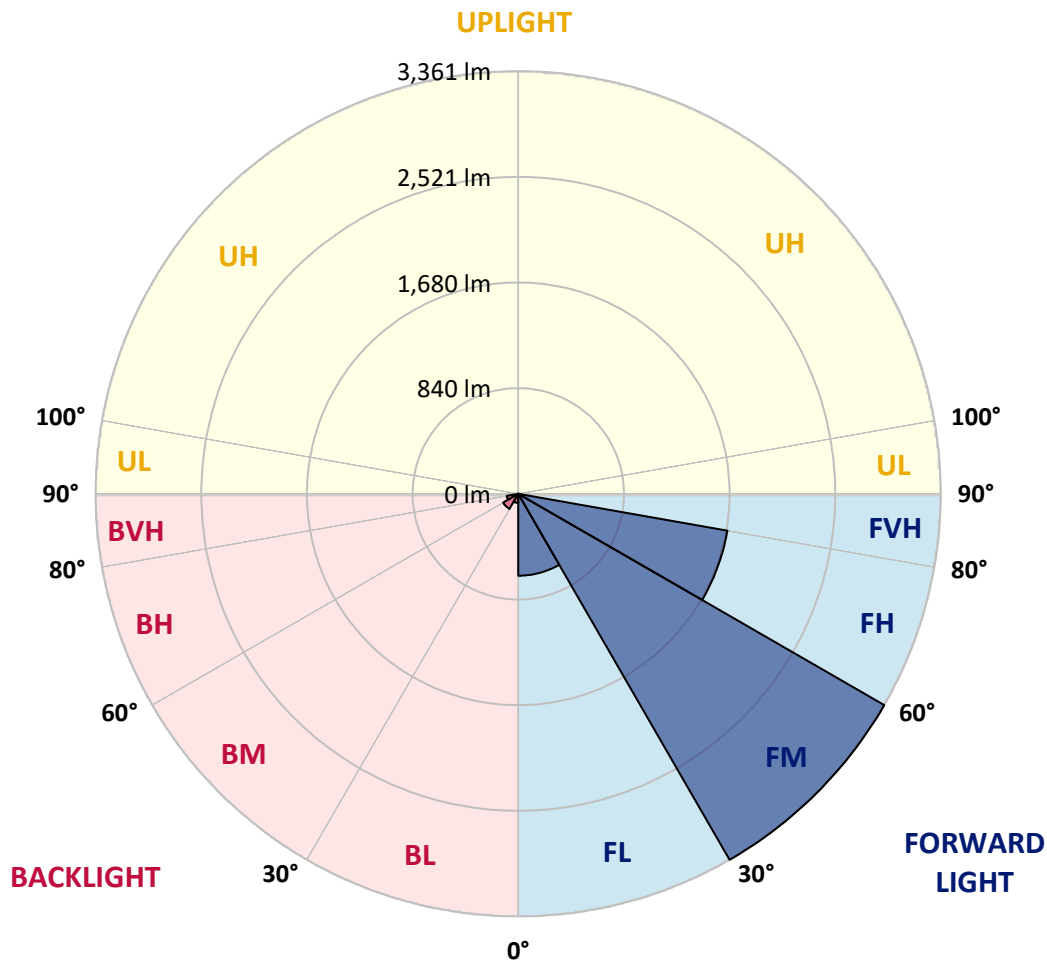


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.4	10.8			
FM (30°-60°)	3361.0	55.8			
FH (60°-80°)	1689.3	28.0			G1/1800
FVH (80°-90°)	19.6	0.3			G1/100
BL (0°-30°)	72.2	1.2	B0/110		
BM (30°-60°)	138.6	2.3	B0/220		
BH (60°-80°)	92.1	1.5	B0/110		G0/110
BVH (80°-90°)	0.9	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°	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8
2.5°	1041.8	1045.4	1038.1	1021.9	1007.4	973.0	945.9	897.1	844.6	844.6	781.3
5°	1164.7	1161.1	1157.5	1144.9	1134.0	1105.1	1068.9	1016.4	935.1	927.8	822.9
7.5°	1224.4	1220.8	1213.6	1208.2	1208.2	1188.3	1153.9	1099.6	1009.2	1002.0	860.9
10°	1295.0	1287.7	1287.7	1273.3	1269.6	1246.1	1228.0	1181.0	1081.5	1072.5	904.3
12.5°	1378.2	1370.9	1372.7	1360.1	1354.7	1329.3	1304.0	1258.8	1159.3	1150.3	954.9
15°	1425.2	1421.6	1432.4	1434.2	1437.8	1416.1	1392.6	1345.6	1246.1	1233.5	1014.6
17.5°	1452.3	1452.3	1465.0	1488.5	1515.6	1503.0	1484.9	1446.9	1334.8	1327.5	1077.9
20°	1504.8	1499.3	1521.0	1542.7	1577.1	1588.0	1582.5	1553.6	1441.5	1419.8	1146.7
22.5°	1591.6	1584.3	1604.2	1631.4	1673.0	1676.6	1680.2	1665.7	1550.0	1528.3	1219.0
25°	1796.0	1777.9	1759.8	1756.2	1772.4	1786.9	1776.1	1786.9	1673.0	1653.1	1296.8
27.5°	2193.8	2163.1	2076.3	1980.4	1913.5	1926.2	1891.8	1911.7	1814.0	1788.7	1369.1
30°	2575.5	2544.7	2474.2	2304.2	2150.4	2081.7	2031.1	2023.8	1958.7	1929.8	1452.3
32.5°	2841.3	2821.4	2774.4	2660.5	2468.8	2293.3	2195.7	2161.3	2152.2	2107.0	1559.0
35°	3022.2	3004.1	2971.5	2879.3	2738.2	2542.9	2374.7	2298.7	2367.5	2313.2	1680.2
37.5°	3130.7	3118.0	3081.9	3018.6	2942.6	2814.2	2597.2	2476.0	2584.5	2533.9	1835.7
40°	3210.3	3177.7	3152.4	3103.6	3078.3	3036.7	2850.4	2660.5	2819.6	2767.2	1989.5
42.5°	3217.5	3203.1	3183.2	3154.2	3157.8	3185.0	3119.9	2873.9	3056.6	3007.7	2152.2
45°	3215.7	3201.2	3186.8	3157.8	3175.9	3277.2	3336.9	3098.2	3288.1	3237.4	2324.1
47.5°	3163.3	3152.4	3156.0	3156.0	3179.5	3317.0	3505.1	3326.0	3519.6	3470.7	2532.1
50°	2978.8	2989.6	3062.0	3100.0	3141.6	3318.8	3622.6	3564.8	3769.1	3734.8	2732.8
52.5°	2394.6	2456.1	2749.1	2949.8	3071.0	3282.6	3698.6	3816.2	4085.7	4033.2	2960.7
55°	1830.3	1833.9	2116.1	2582.7	2931.8	3217.5	3742.0	3986.2	4326.2	4297.3	3161.5
57.5°	1484.9	1483.1	1622.3	2041.9	2570.0	3114.4	3752.9	4111.0	4581.2	4527.0	3393.0
60°	1213.6	1206.3	1289.5	1548.2	2099.8	2872.1	3713.1	4212.3	4843.5	4823.6	3635.3
62.5°	877.2	884.4	994.7	1195.5	1618.7	2425.3	3628.1	4243.0	5160.0	5140.1	3906.6
65°	504.6	526.3	647.5	860.9	1240.7	1897.2	3385.7	4219.5	5469.2	5467.4	4158.0
67.5°	253.2	255.0	320.1	481.1	833.8	1419.8	2850.4	4071.2	5726.1	5686.3	4302.7
70°	162.8	166.4	188.1	247.8	461.2	983.9	2177.6	3651.6	5565.1	5550.6	4091.1
72.5°	124.8	128.4	146.5	162.8	240.5	558.9	1474.0	2837.7	4646.3	4606.5	3190.4
75°	97.7	99.5	117.6	132.0	161.0	262.2	739.7	1768.8	2993.3	2890.2	1815.8
77.5°	77.8	79.6	88.6	104.9	123.0	146.5	218.8	795.8	1217.2	1087.0	589.6
80°	50.6	52.4	66.9	81.4	104.9	95.9	85.0	229.7	260.4	235.1	104.9
82.5°	28.9	30.7	45.2	65.1	79.6	54.3	48.8	66.9	61.5	59.7	32.6
85°	9.0	9.0	30.7	45.2	36.2	16.3	30.7	23.5	19.9	18.1	10.9
87.5°	1.8	1.8	14.5	16.3	5.4	1.8	3.6	5.4	7.2	9.0	5.4
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°	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8
2.5°	750.6	714.4	647.5	589.6	533.5	484.7	450.3	419.6	397.9	392.5	383.4
5°	756.0	685.5	557.1	448.5	354.5	278.5	235.1	206.2	191.7	182.7	182.7
7.5°	761.4	656.5	472.0	327.4	224.3	170.0	142.9	130.2	124.8	123.0	121.2
10°	772.3	634.8	399.7	235.1	153.7	128.4	117.6	112.1	108.5	106.7	106.7
12.5°	790.4	616.7	332.8	173.6	126.6	113.9	106.7	99.5	95.9	94.0	94.0
15°	813.9	604.1	274.9	139.3	115.8	103.1	94.0	86.8	81.4	79.6	79.6
17.5°	846.4	595.0	226.1	123.0	106.7	92.2	81.4	74.2	68.7	66.9	66.9
20°	879.0	595.0	186.3	113.9	97.7	81.4	70.5	61.5	56.1	54.3	54.3
22.5°	922.4	593.2	155.5	104.9	86.8	70.5	59.7	48.8	45.2	43.4	43.4
25°	958.6	593.2	133.8	95.9	76.0	61.5	48.8	39.8	36.2	34.4	34.4
27.5°	1002.0	587.8	113.9	85.0	65.1	50.6	39.8	32.6	28.9	27.1	27.1
30°	1040.0	580.6	101.3	76.0	56.1	41.6	32.6	25.3	23.5	23.5	23.5
32.5°	1103.3	575.1	90.4	65.1	47.0	34.4	25.3	19.9	18.1	18.1	18.1
35°	1179.2	575.1	83.2	56.1	39.8	28.9	19.9	16.3	14.5	14.5	14.5
37.5°	1278.7	580.6	74.2	48.8	32.6	23.5	16.3	12.7	10.9	10.9	10.9
40°	1383.6	593.2	66.9	43.4	28.9	18.1	12.7	9.0	7.2	9.0	9.0
42.5°	1508.4	605.9	59.7	38.0	23.5	14.5	9.0	5.4	3.6	5.4	5.4
45°	1631.4	618.5	56.1	32.6	19.9	10.9	5.4	3.6	1.8	3.6	3.6
47.5°	1783.3	649.3	52.4	28.9	16.3	9.0	3.6	1.8	0.0	1.8	1.8
50°	1958.7	683.7	47.0	23.5	12.7	7.2	3.6	0.0	0.0	0.0	0.0
52.5°	2126.9	712.6	41.6	19.9	10.9	5.4	1.8	0.0	0.0	0.0	0.0
55°	2295.1	730.7	36.2	16.3	9.0	5.4	1.8	0.0	0.0	0.0	0.0
57.5°	2476.0	741.5	32.6	14.5	7.2	3.6	1.8	0.0	0.0	0.0	0.0
60°	2676.7	741.5	27.1	12.7	5.4	3.6	1.8	0.0	0.0	0.0	0.0
62.5°	2899.2	719.8	25.3	10.9	5.4	3.6	1.8	0.0	0.0	0.0	0.0
65°	3080.1	642.1	21.7	9.0	5.4	3.6	1.8	0.0	0.0	0.0	0.0
67.5°	3087.3	508.2	19.9	7.2	5.4	3.6	1.8	0.0	0.0	0.0	0.0
70°	2752.7	347.3	16.3	5.4	3.6	3.6	1.8	0.0	0.0	0.0	0.0
72.5°	2060.0	186.3	14.5	5.4	3.6	1.8	1.8	0.0	0.0	0.0	0.0
75°	1110.5	72.3	9.0	5.4	3.6	1.8	1.8	0.0	0.0	0.0	0.0
77.5°	323.7	36.2	5.4	3.6	3.6	1.8	1.8	0.0	0.0	0.0	0.0
80°	59.7	18.1	3.6	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	7.2	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	7.2	3.6	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	1.8	1.8	1.8	1.8	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)