

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: P594776

Luminaire Tested: **ISS-PA1E-727-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594776  
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-PA1E-727-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 7397 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

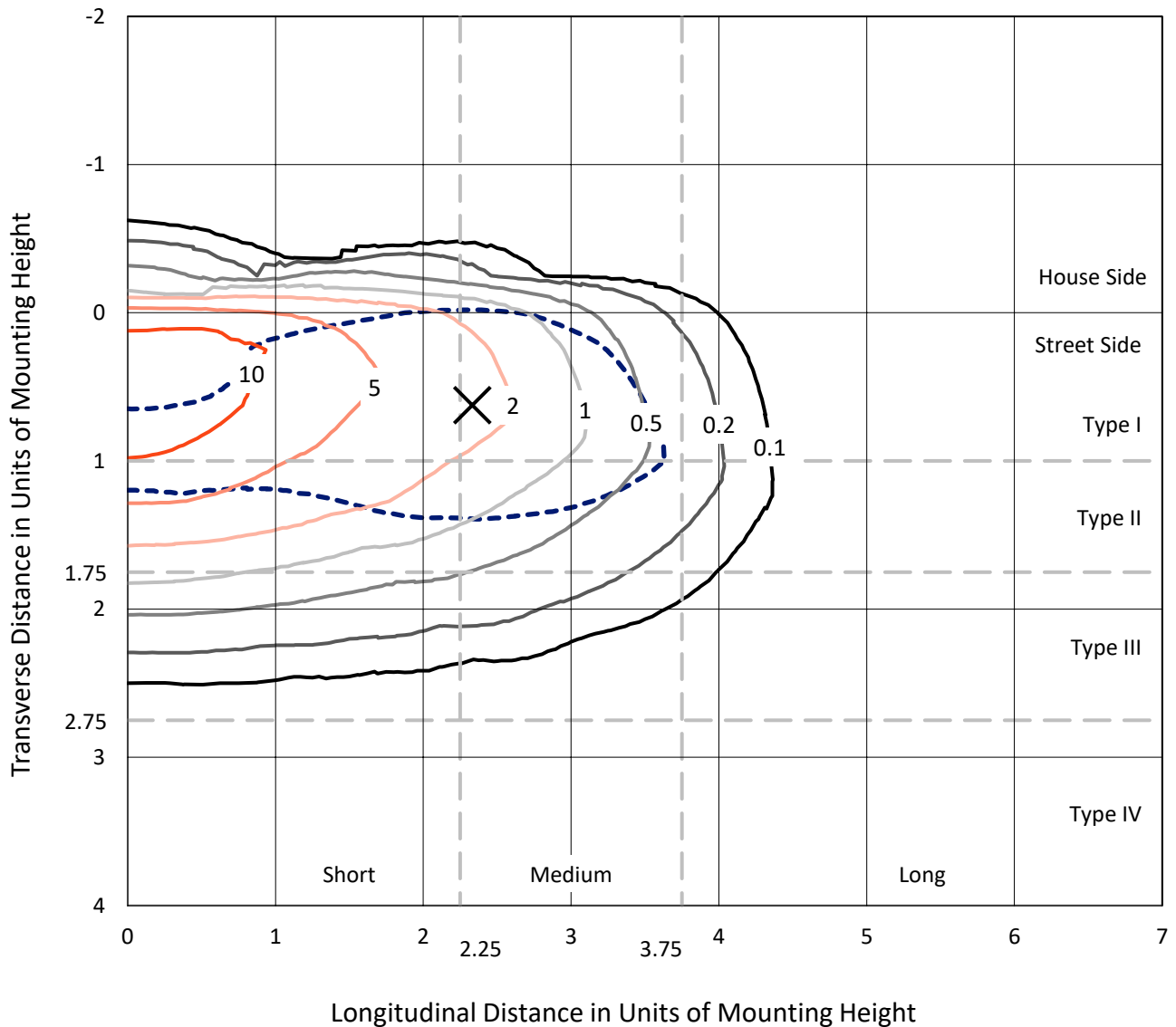
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

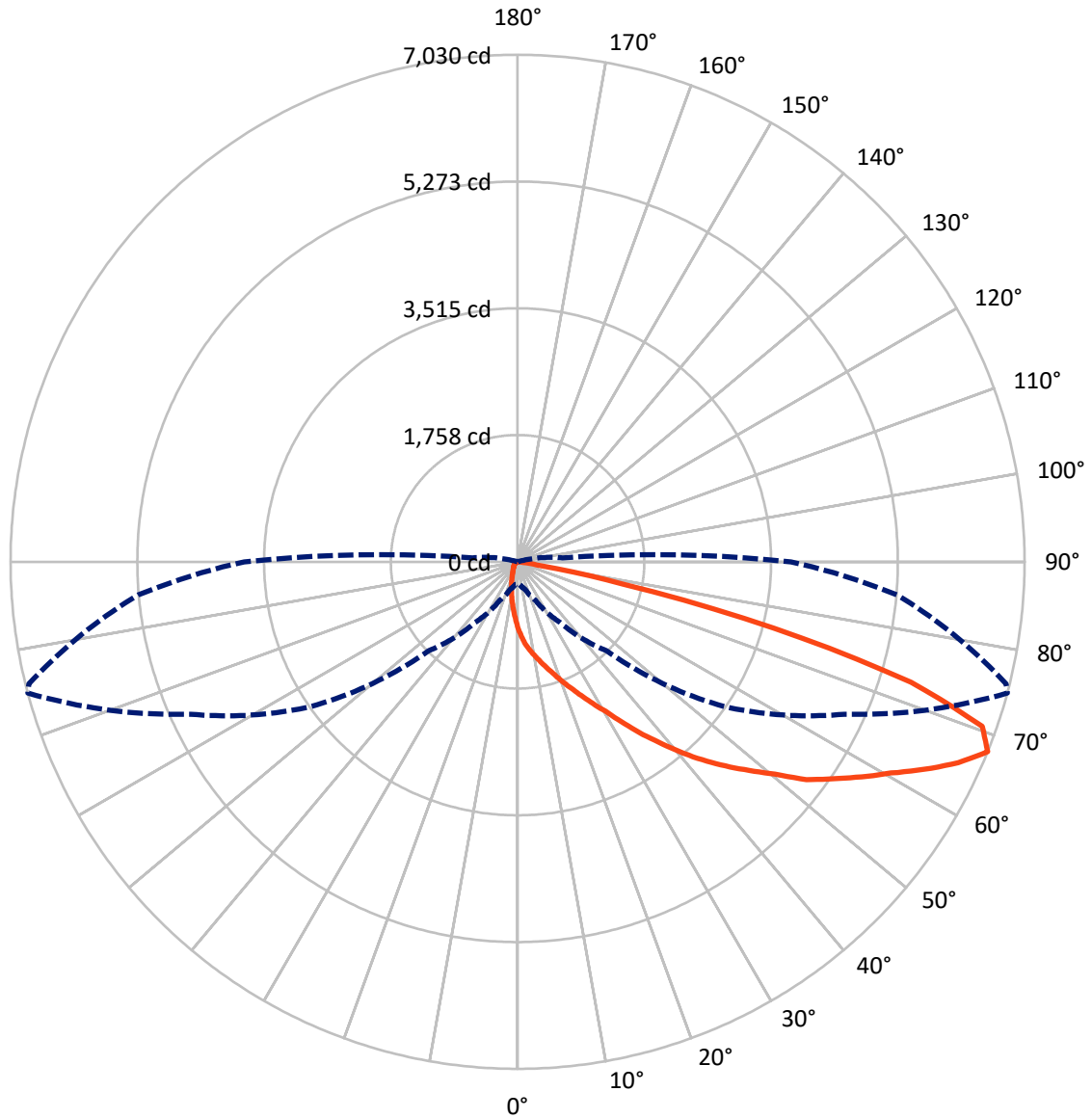
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.5 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	372.9	0.0	372.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	7024.1	0.0	7024.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	7397.0	0.0	7397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	1.1
10°-20°	267.6	3.6
20°-30°	537.8	7.3
30°-40°	1017.3	13.8
40°-50°	1522.0	20.6
50°-60°	1757.2	23.8
60°-70°	1557.6	21.1
70°-80°	629.5	8.5
80°-90°	25.1	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°	7397.0	100.0
0°-180°	7397.0	100.0

**Coefficient of Utilization**

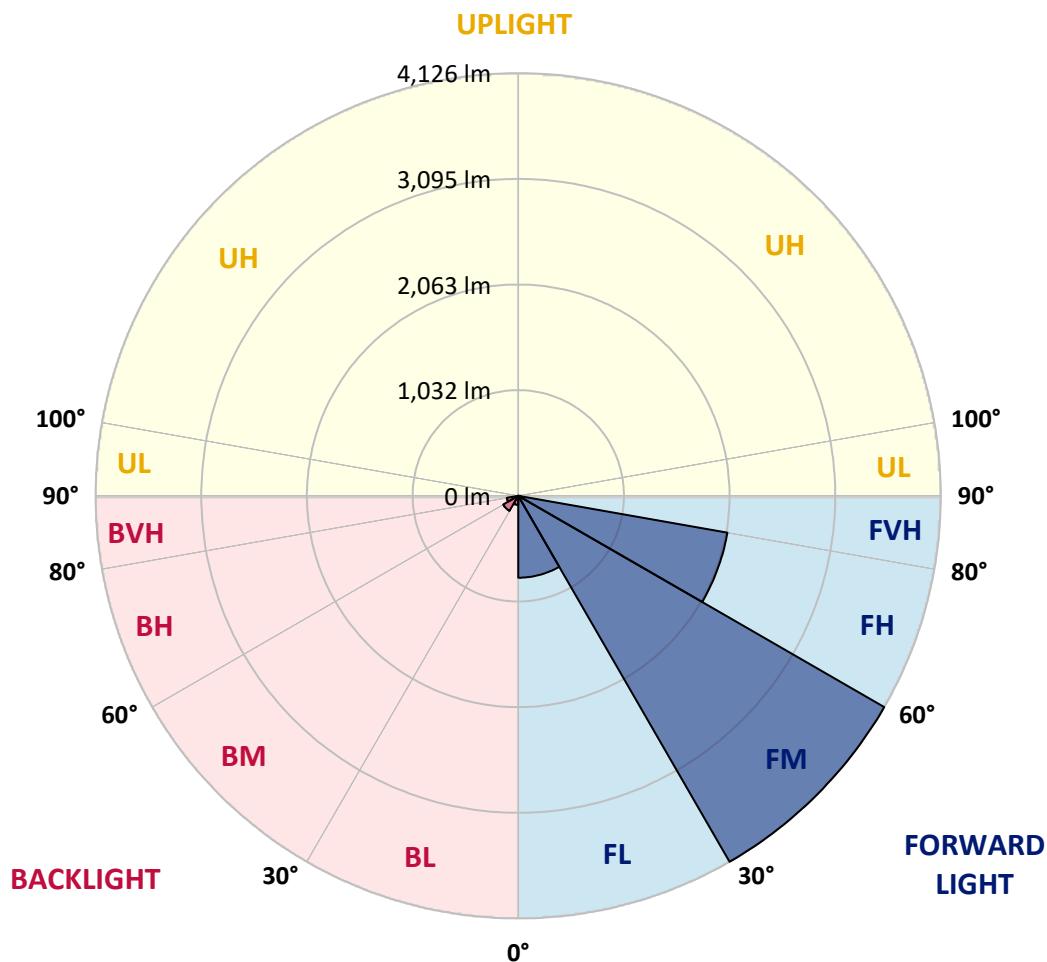


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.7	10.8			
FM (30°-60°)	4126.3	55.8			
FH (60°-80°)	2074.0	28.0			G2/5000
FVH (80°-90°)	24.0	0.3			G1/100
BL (0°-30°)	88.6	1.2	B0/110		
BM (30°-60°)	170.1	2.3	B0/220		
BH (60°-80°)	113.1	1.5	B1/500		G1/500
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: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3
2.5°	1279.0	1283.4	1274.5	1254.6	1236.8	1194.6	1161.3	1101.4	1037.0	1037.0	959.2
5°	1430.0	1425.5	1421.1	1405.6	1392.2	1356.7	1312.3	1247.9	1148.0	1139.1	1010.3
7.5°	1503.3	1498.8	1489.9	1483.3	1483.3	1458.8	1416.7	1350.0	1239.0	1230.1	1056.9
10°	1589.9	1581.0	1581.0	1563.2	1558.8	1529.9	1507.7	1450.0	1327.8	1316.7	1110.2
12.5°	1692.0	1683.1	1685.3	1669.8	1663.1	1632.0	1601.0	1545.4	1423.3	1412.2	1172.4
15°	1749.7	1745.3	1758.6	1760.8	1765.3	1738.6	1709.8	1652.0	1529.9	1514.4	1245.7
17.5°	1783.0	1783.0	1798.6	1827.4	1860.7	1845.2	1823.0	1776.4	1638.7	1629.8	1323.4
20°	1847.4	1840.8	1867.4	1894.1	1936.2	1949.6	1942.9	1907.4	1769.7	1743.1	1407.8
22.5°	1954.0	1945.1	1969.6	2002.9	2053.9	2058.4	2062.8	2045.0	1902.9	1876.3	1496.6
25°	2204.9	2182.7	2160.5	2156.1	2176.1	2193.8	2180.5	2193.8	2053.9	2029.5	1592.1
27.5°	2693.4	2655.7	2549.1	2431.4	2349.3	2364.8	2322.6	2347.0	2227.1	2196.0	1680.9
30°	3161.9	3124.2	3037.6	2828.9	2640.1	2555.8	2493.6	2484.7	2404.8	2369.2	1783.0
32.5°	3488.4	3463.9	3406.2	3266.3	3030.9	2815.5	2695.6	2653.5	2642.4	2586.8	1914.0
35°	3710.4	3688.2	3648.2	3535.0	3361.8	3122.0	2915.5	2822.2	2906.6	2840.0	2062.8
37.5°	3843.6	3828.1	3783.7	3706.0	3612.7	3455.0	3188.6	3039.8	3173.0	3110.9	2253.8
40°	3941.3	3901.4	3870.3	3810.3	3779.2	3728.2	3499.5	3266.3	3461.7	3397.3	2442.5
42.5°	3950.2	3932.4	3908.0	3872.5	3876.9	3910.2	3830.3	3528.3	3752.6	3692.6	2642.4
45°	3948.0	3930.2	3912.5	3876.9	3899.1	4023.5	4096.8	3803.7	4036.8	3974.6	2853.3
47.5°	3883.6	3870.3	3874.7	3874.7	3903.6	4072.3	4303.3	4083.4	4321.0	4261.1	3108.7
50°	3657.1	3670.4	3759.2	3805.9	3856.9	4074.6	4447.6	4376.5	4627.4	4585.3	3355.1
52.5°	2939.9	3015.4	3375.1	3621.6	3770.3	4030.1	4540.9	4685.2	5016.0	4951.6	3634.9
55°	2247.1	2251.6	2597.9	3170.8	3599.4	3950.2	4594.1	4893.9	5311.4	5275.8	3881.4
57.5°	1823.0	1820.8	1991.8	2506.9	3155.3	3823.6	4607.5	5047.1	5624.4	5557.8	4165.6
60°	1489.9	1481.1	1583.2	1900.7	2578.0	3526.1	4558.6	5171.5	5946.4	5922.0	4463.1
62.5°	1076.9	1085.8	1221.3	1467.7	1987.3	2977.6	4454.3	5209.2	6335.0	6310.6	4796.2
65°	619.5	646.2	794.9	1056.9	1523.2	2329.3	4156.7	5180.3	6714.7	6712.5	5104.8
67.5°	310.9	313.1	393.0	590.6	1023.6	1743.1	3499.5	4998.3	7030.0	6981.1	5282.5
70°	199.8	204.3	230.9	304.2	566.2	1207.9	2673.4	4483.1	6832.4	6814.6	5022.7
72.5°	153.2	157.7	179.9	199.8	295.3	686.1	1809.7	3483.9	5704.4	5655.5	3916.9
75°	119.9	122.1	144.3	162.1	197.6	322.0	908.2	2171.6	3674.9	3548.3	2229.3
77.5°	95.5	97.7	108.8	128.8	151.0	179.9	268.7	977.0	1494.4	1334.5	723.9
80°	62.2	64.4	82.2	99.9	128.8	117.7	104.4	282.0	319.7	288.7	128.8
82.5°	35.5	37.7	55.5	79.9	97.7	66.6	60.0	82.2	75.5	73.3	40.0
85°	11.1	11.1	37.7	55.5	44.4	20.0	37.7	28.9	24.4	22.2	13.3
87.5°	2.2	2.2	17.8	20.0	6.7	2.2	4.4	6.7	8.9	11.1	6.7
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°	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3	919.3
2.5°	921.5	877.1	794.9	723.9	655.0	595.1	552.9	515.1	488.5	481.8	470.7
5°	928.2	841.6	683.9	550.7	435.2	342.0	288.7	253.1	235.4	224.3	224.3
7.5°	934.8	806.0	579.5	401.9	275.3	208.7	175.4	159.9	153.2	151.0	148.8
10°	948.1	779.4	490.7	288.7	188.7	157.7	144.3	137.7	133.2	131.0	131.0
12.5°	970.3	757.2	408.6	213.2	155.4	139.9	131.0	122.1	117.7	115.5	115.5
15°	999.2	741.6	337.5	171.0	142.1	126.6	115.5	106.6	99.9	97.7	97.7
17.5°	1039.2	730.5	277.6	151.0	131.0	113.2	99.9	91.0	84.4	82.2	82.2
20°	1079.1	730.5	228.7	139.9	119.9	99.9	86.6	75.5	68.8	66.6	66.6
22.5°	1132.4	728.3	191.0	128.8	106.6	86.6	73.3	60.0	55.5	53.3	53.3
25°	1176.8	728.3	164.3	117.7	93.3	75.5	60.0	48.9	44.4	42.2	42.2
27.5°	1230.1	721.7	139.9	104.4	79.9	62.2	48.9	40.0	35.5	33.3	33.3
30°	1276.8	712.8	124.3	93.3	68.8	51.1	40.0	31.1	28.9	28.9	28.9
32.5°	1354.5	706.1	111.0	79.9	57.7	42.2	31.1	24.4	22.2	22.2	22.2
35°	1447.7	706.1	102.1	68.8	48.9	35.5	24.4	20.0	17.8	17.8	17.8
37.5°	1569.9	712.8	91.0	60.0	40.0	28.9	20.0	15.5	13.3	13.3	13.3
40°	1698.7	728.3	82.2	53.3	35.5	22.2	15.5	11.1	8.9	11.1	11.1
42.5°	1851.9	743.9	73.3	46.6	28.9	17.8	11.1	6.7	4.4	6.7	6.7
45°	2002.9	759.4	68.8	40.0	24.4	13.3	6.7	4.4	2.2	4.4	4.4
47.5°	2189.4	797.1	64.4	35.5	20.0	11.1	4.4	2.2	0.0	2.2	2.2
50°	2404.8	839.3	57.7	28.9	15.5	8.9	4.4	0.0	0.0	0.0	0.0
52.5°	2611.3	874.9	51.1	24.4	13.3	6.7	2.2	0.0	0.0	0.0	0.0
55°	2817.8	897.1	44.4	20.0	11.1	6.7	2.2	0.0	0.0	0.0	0.0
57.5°	3039.8	910.4	40.0	17.8	8.9	4.4	2.2	0.0	0.0	0.0	0.0
60°	3286.3	910.4	33.3	15.5	6.7	4.4	2.2	0.0	0.0	0.0	0.0
62.5°	3559.4	883.7	31.1	13.3	6.7	4.4	2.2	0.0	0.0	0.0	0.0
65°	3781.5	788.3	26.6	11.1	6.7	4.4	2.2	0.0	0.0	0.0	0.0
67.5°	3790.3	624.0	24.4	8.9	6.7	4.4	2.2	0.0	0.0	0.0	0.0
70°	3379.5	426.3	20.0	6.7	4.4	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	2529.1	228.7	17.8	6.7	4.4	2.2	2.2	0.0	0.0	0.0	0.0
75°	1363.4	88.8	11.1	6.7	4.4	2.2	2.2	0.0	0.0	0.0	0.0
77.5°	397.5	44.4	6.7	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
80°	73.3	22.2	4.4	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	8.9	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	8.9	4.4	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	2.2	2.2	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)