

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: P594758

Luminaire Tested: **ISS-PA1D-830-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594758  
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-830-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 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: 5725 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

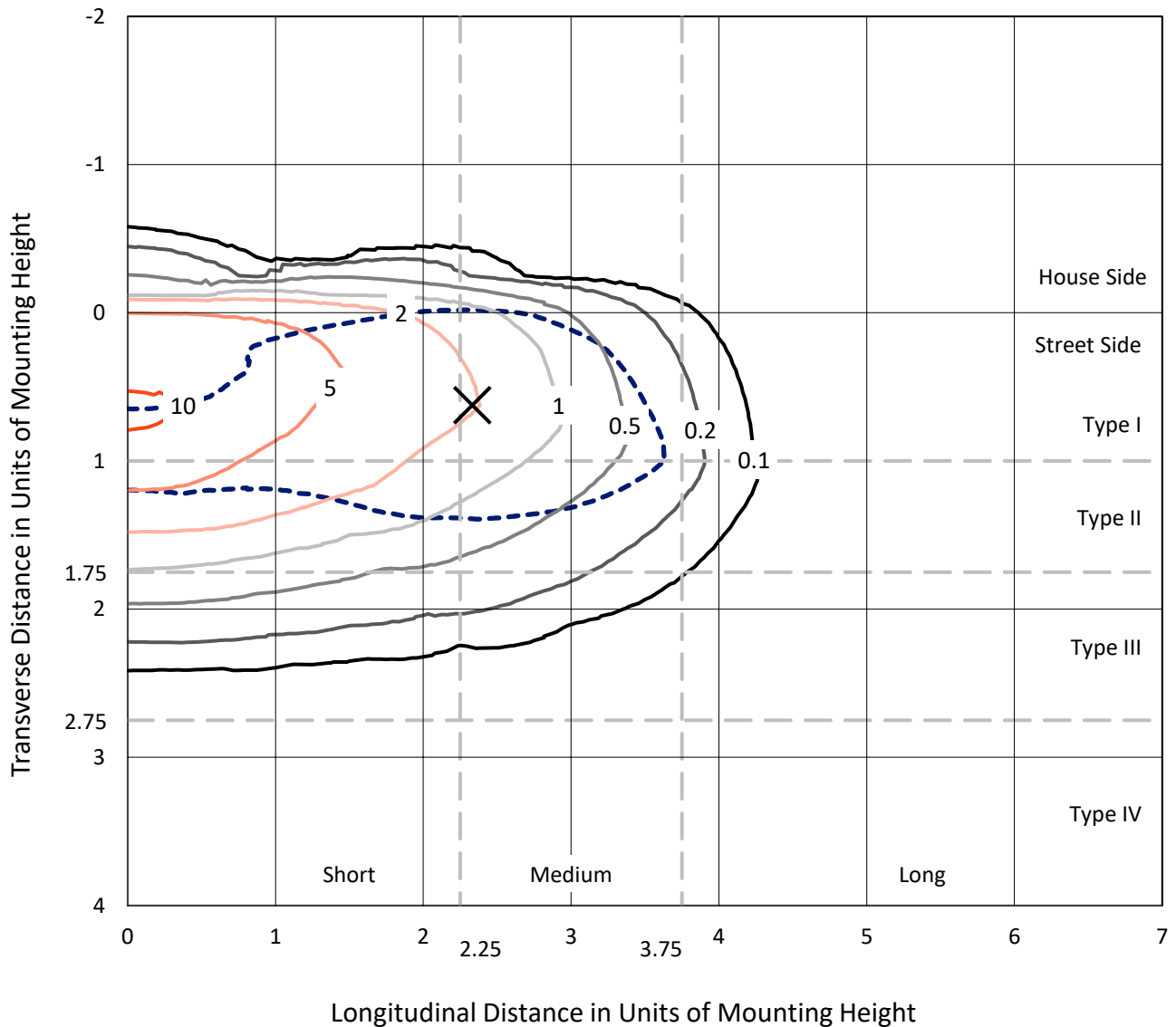
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

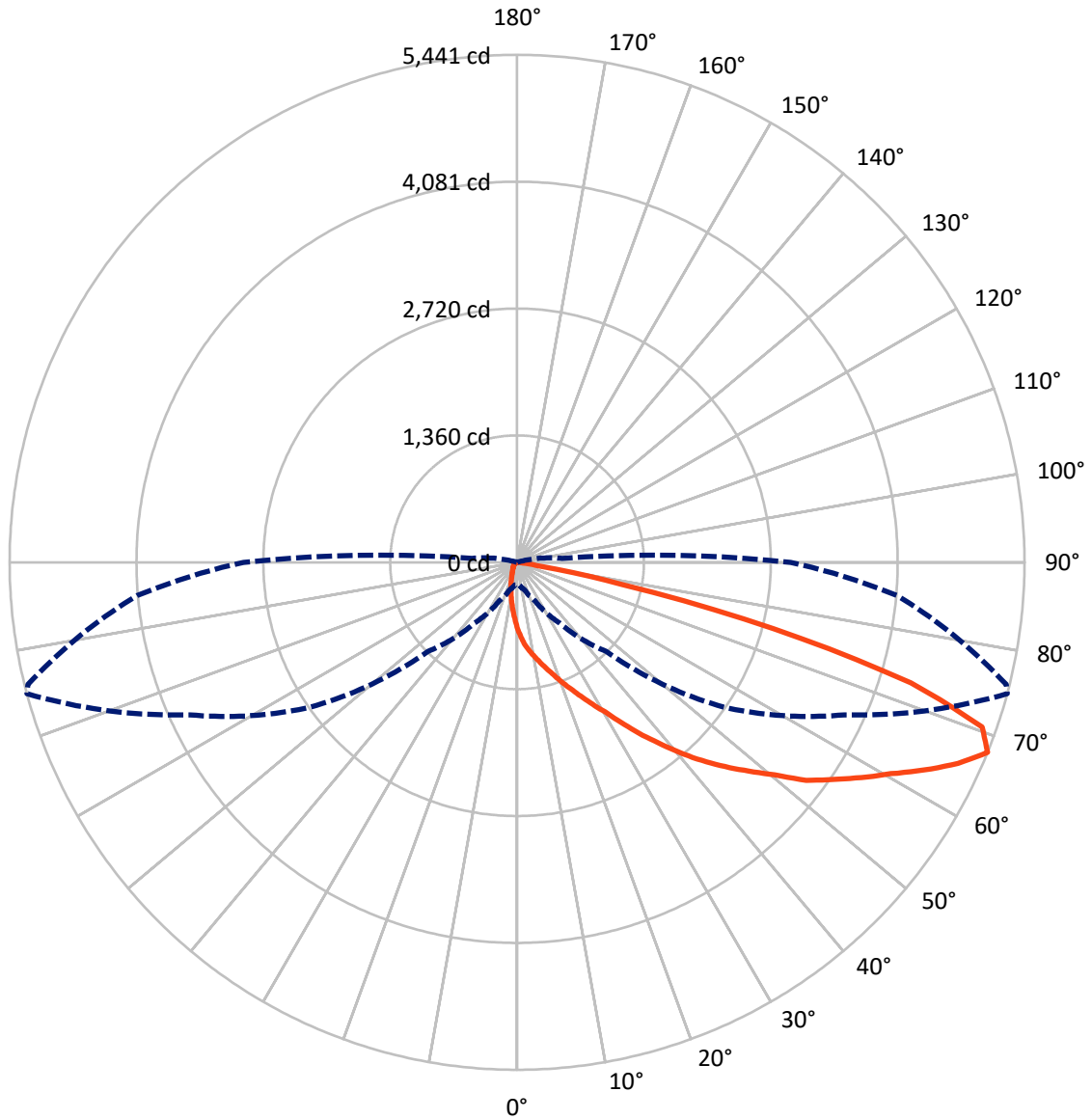
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.2 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	288.6	0.0	288.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5436.4	0.0	5436.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5725.0	0.0	5725.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	1.1
10°-20°	207.1	3.6
20°-30°	416.3	7.3
30°-40°	787.4	13.8
40°-50°	1177.9	20.6
50°-60°	1360.0	23.8
60°-70°	1205.5	21.1
70°-80°	487.2	8.5
80°-90°	19.4	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°	5725.0	100.0
0°-180°	5725.0	100.0

**Coefficient of Utilization**



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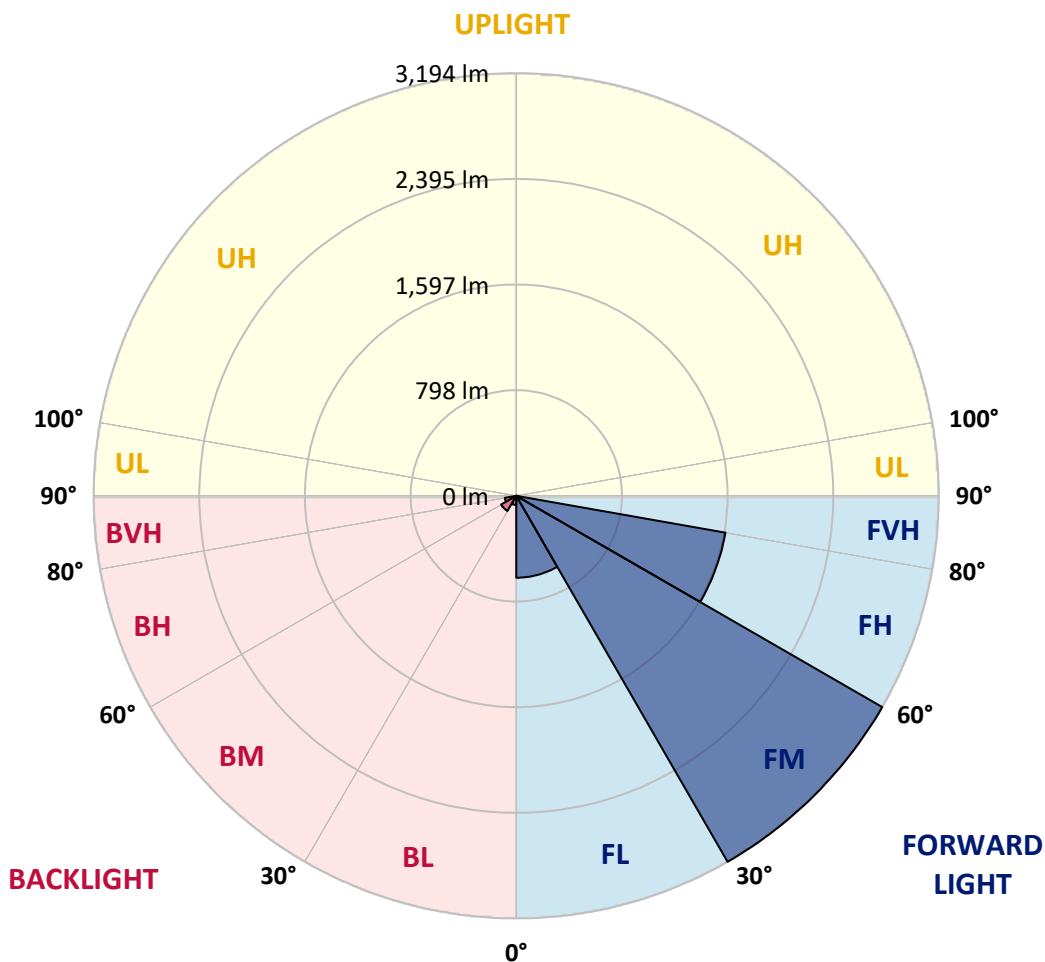
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.9	10.8			
FM (30°-60°)	3193.6	55.8			
FH (60°-80°)	1605.2	28.0			G1/1800
FVH (80°-90°)	18.6	0.3			G1/100
BL (0°-30°)	68.6	1.2	B0/110		
BM (30°-60°)	131.7	2.3	B0/220		
BH (60°-80°)	87.5	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°	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5
2.5°	989.9	993.3	986.5	971.0	957.2	924.6	898.8	852.4	802.6	802.6	742.4
5°	1106.8	1103.3	1099.9	1087.8	1077.5	1050.0	1015.7	965.8	888.5	881.6	781.9
7.5°	1163.5	1160.0	1153.2	1148.0	1148.0	1129.1	1096.4	1044.9	959.0	952.1	818.0
10°	1230.5	1223.6	1223.6	1209.9	1206.4	1184.1	1166.9	1122.2	1027.7	1019.1	859.3
12.5°	1309.5	1302.7	1304.4	1292.4	1287.2	1263.1	1239.1	1196.1	1101.6	1093.0	907.4
15°	1354.2	1350.8	1361.1	1362.8	1366.3	1345.6	1323.3	1278.6	1184.1	1172.1	964.1
17.5°	1380.0	1380.0	1392.0	1414.4	1440.2	1428.1	1410.9	1374.8	1268.3	1261.4	1024.3
20°	1429.8	1424.7	1445.3	1465.9	1498.6	1508.9	1503.7	1476.2	1369.7	1349.1	1089.6
22.5°	1512.3	1505.5	1524.4	1550.1	1589.7	1593.1	1596.5	1582.8	1472.8	1452.2	1158.3
25°	1706.5	1689.3	1672.2	1668.7	1684.2	1697.9	1687.6	1697.9	1589.7	1570.8	1232.2
27.5°	2084.6	2055.4	1972.9	1881.8	1818.2	1830.3	1797.6	1816.5	1723.7	1699.7	1300.9
30°	2447.2	2418.0	2351.0	2189.4	2043.4	1978.1	1929.9	1923.1	1861.2	1833.7	1380.0
32.5°	2699.9	2680.9	2636.3	2528.0	2345.8	2179.1	2086.3	2053.7	2045.1	2002.1	1481.4
35°	2871.7	2854.5	2823.6	2735.9	2601.9	2416.3	2256.5	2184.3	2249.6	2198.0	1596.5
37.5°	2974.8	2962.8	2928.4	2868.3	2796.1	2674.1	2467.8	2352.7	2455.8	2407.7	1744.3
40°	3050.4	3019.5	2995.4	2949.0	2925.0	2885.5	2708.4	2528.0	2679.2	2629.4	1890.4
42.5°	3057.3	3043.6	3024.7	2997.2	3000.6	3026.4	2964.5	2730.8	2904.4	2858.0	2045.1
45°	3055.6	3041.8	3028.1	3000.6	3017.8	3114.0	3170.7	2943.9	3124.3	3076.2	2208.3
47.5°	3005.8	2995.4	2998.9	2998.9	3021.2	3151.8	3330.6	3160.4	3344.3	3297.9	2406.0
50°	2830.5	2840.8	2909.5	2945.6	2985.1	3153.6	3442.3	3387.3	3581.5	3548.8	2596.7
52.5°	2275.4	2333.8	2612.2	2803.0	2918.1	3119.2	3514.4	3626.2	3882.2	3832.4	2813.3
55°	1739.2	1742.6	2010.7	2454.1	2785.8	3057.3	3555.7	3787.7	4110.8	4083.3	3004.0
57.5°	1410.9	1409.2	1541.5	1940.3	2442.1	2959.4	3566.0	3906.3	4353.1	4301.5	3224.0
60°	1153.2	1146.3	1225.3	1471.1	1995.2	2729.1	3528.2	4002.5	4602.3	4583.4	3454.3
62.5°	833.5	840.4	945.2	1136.0	1538.1	2304.6	3447.4	4031.7	4903.0	4884.1	3712.1
65°	479.5	500.1	615.2	818.0	1178.9	1802.8	3217.1	4009.4	5196.9	5195.2	3951.0
67.5°	240.6	242.3	304.2	457.1	792.3	1349.1	2708.4	3868.5	5440.9	5403.1	4088.4
70°	154.7	158.1	178.7	235.4	438.2	934.9	2069.1	3469.8	5288.0	5274.2	3887.4
72.5°	118.6	122.0	139.2	154.7	228.6	531.0	1400.6	2696.4	4415.0	4377.2	3031.5
75°	92.8	94.5	111.7	125.5	153.0	249.2	702.9	1680.7	2844.2	2746.3	1725.4
77.5°	73.9	75.6	84.2	99.7	116.9	139.2	207.9	756.2	1156.6	1032.9	560.2
80°	48.1	49.8	63.6	77.3	99.7	91.1	80.8	218.3	247.5	223.4	99.7
82.5°	27.5	29.2	43.0	61.9	75.6	51.6	46.4	63.6	58.4	56.7	30.9
85°	8.6	8.6	29.2	43.0	34.4	15.5	29.2	22.3	18.9	17.2	10.3
87.5°	1.7	1.7	13.7	15.5	5.2	1.7	3.4	5.2	6.9	8.6	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°	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5
2.5°	713.2	678.8	615.2	560.2	507.0	460.6	427.9	398.7	378.1	372.9	364.3
5°	718.4	651.3	529.3	426.2	336.8	264.7	223.4	195.9	182.2	173.6	173.6
7.5°	723.5	623.8	448.5	311.1	213.1	161.5	135.8	123.7	118.6	116.9	115.1
10°	733.8	603.2	379.8	223.4	146.1	122.0	111.7	106.6	103.1	101.4	101.4
12.5°	751.0	586.0	316.2	165.0	120.3	108.3	101.4	94.5	91.1	89.4	89.4
15°	773.4	574.0	261.2	132.3	110.0	98.0	89.4	82.5	77.3	75.6	75.6
17.5°	804.3	565.4	214.8	116.9	101.4	87.6	77.3	70.5	65.3	63.6	63.6
20°	835.2	565.4	177.0	108.3	92.8	77.3	67.0	58.4	53.3	51.6	51.6
22.5°	876.5	563.7	147.8	99.7	82.5	67.0	56.7	46.4	43.0	41.2	41.2
25°	910.8	563.7	127.2	91.1	72.2	58.4	46.4	37.8	34.4	32.7	32.7
27.5°	952.1	558.5	108.3	80.8	61.9	48.1	37.8	30.9	27.5	25.8	25.8
30°	988.2	551.7	96.2	72.2	53.3	39.5	30.9	24.1	22.3	22.3	22.3
32.5°	1048.3	546.5	85.9	61.9	44.7	32.7	24.1	18.9	17.2	17.2	17.2
35°	1120.5	546.5	79.1	53.3	37.8	27.5	18.9	15.5	13.7	13.7	13.7
37.5°	1215.0	551.7	70.5	46.4	30.9	22.3	15.5	12.0	10.3	10.3	10.3
40°	1314.7	563.7	63.6	41.2	27.5	17.2	12.0	8.6	6.9	8.6	8.6
42.5°	1433.3	575.7	56.7	36.1	22.3	13.7	8.6	5.2	3.4	5.2	5.2
45°	1550.1	587.7	53.3	30.9	18.9	10.3	5.2	3.4	1.7	3.4	3.4
47.5°	1694.5	617.0	49.8	27.5	15.5	8.6	3.4	1.7	0.0	1.7	1.7
50°	1861.2	649.6	44.7	22.3	12.0	6.9	3.4	0.0	0.0	0.0	0.0
52.5°	2021.0	677.1	39.5	18.9	10.3	5.2	1.7	0.0	0.0	0.0	0.0
55°	2180.8	694.3	34.4	15.5	8.6	5.2	1.7	0.0	0.0	0.0	0.0
57.5°	2352.7	704.6	30.9	13.7	6.9	3.4	1.7	0.0	0.0	0.0	0.0
60°	2543.5	704.6	25.8	12.0	5.2	3.4	1.7	0.0	0.0	0.0	0.0
62.5°	2754.8	684.0	24.1	10.3	5.2	3.4	1.7	0.0	0.0	0.0	0.0
65°	2926.7	610.1	20.6	8.6	5.2	3.4	1.7	0.0	0.0	0.0	0.0
67.5°	2933.6	482.9	18.9	6.9	5.2	3.4	1.7	0.0	0.0	0.0	0.0
70°	2615.6	330.0	15.5	5.2	3.4	3.4	1.7	0.0	0.0	0.0	0.0
72.5°	1957.4	177.0	13.7	5.2	3.4	1.7	1.7	0.0	0.0	0.0	0.0
75°	1055.2	68.7	8.6	5.2	3.4	1.7	1.7	0.0	0.0	0.0	0.0
77.5°	307.6	34.4	5.2	3.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0
80°	56.7	17.2	3.4	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	6.9	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	6.9	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	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)