

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: P594911

Luminaire Tested: **ISS-PA1F-827-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594911  
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-PA1F-827-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA 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: 7126 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G2

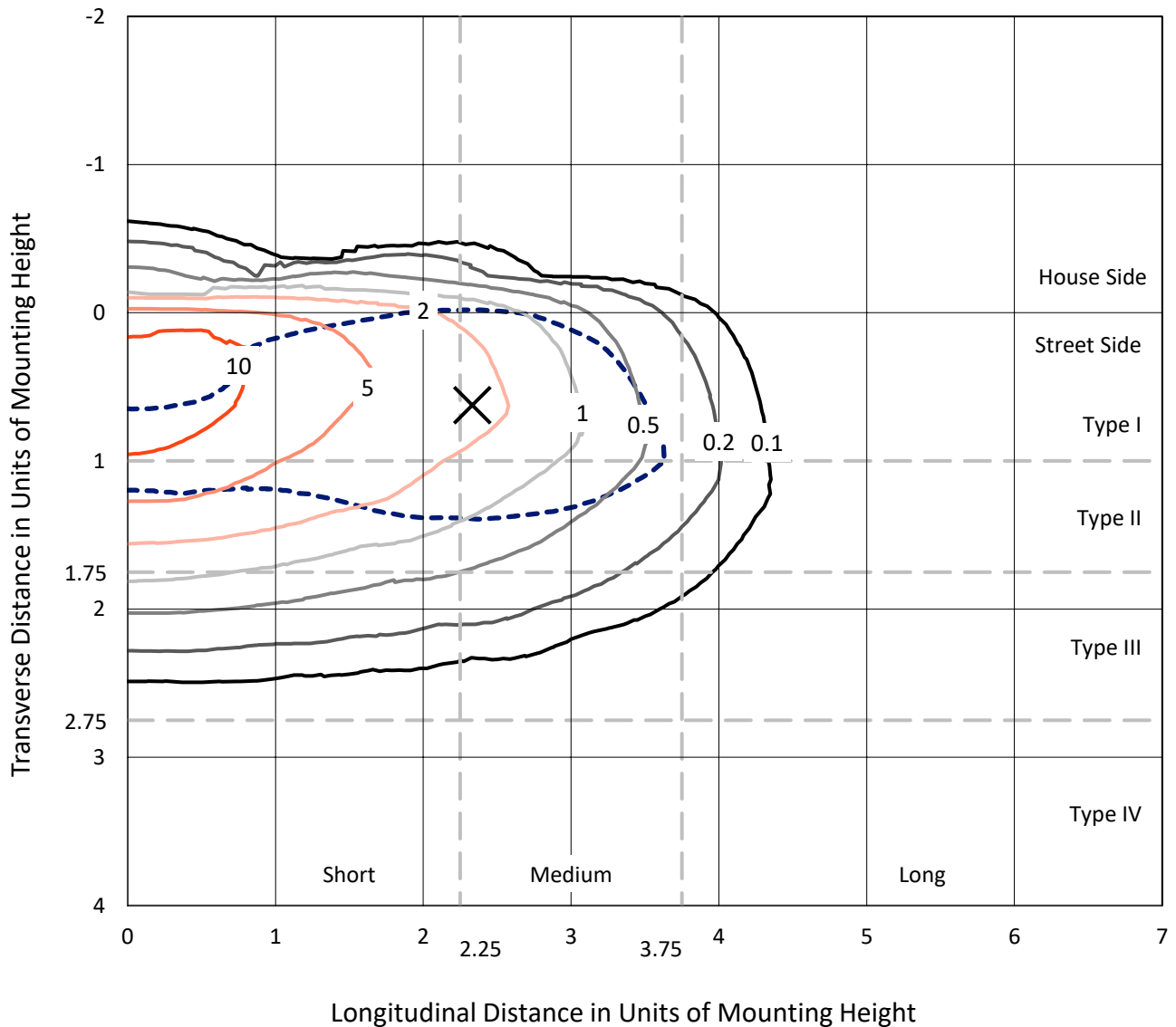
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

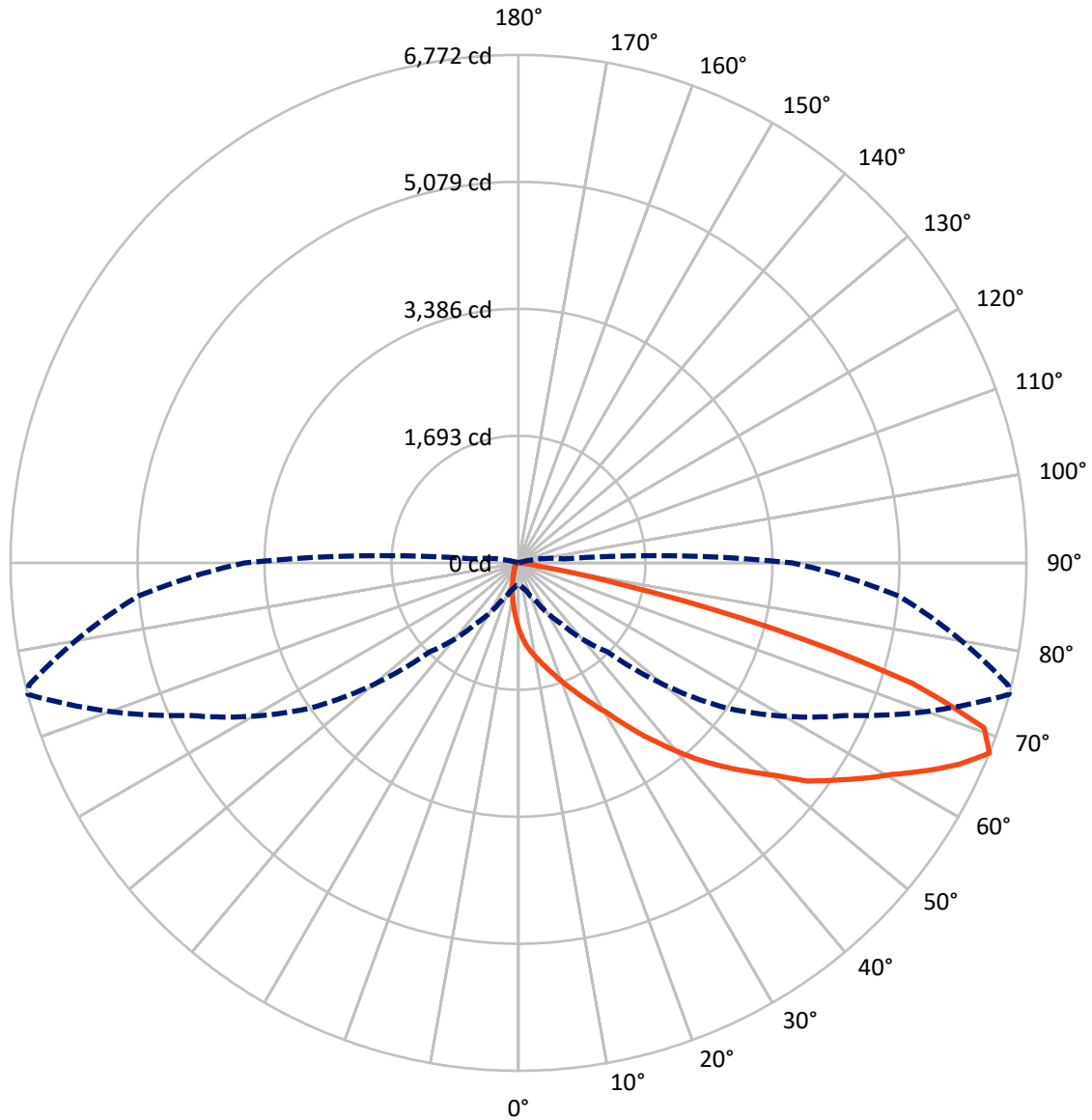
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14 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	359.2	0.0	359.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6766.8	0.0	6766.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	7126.0	0.0	7126.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.9	1.1
10°-20°	257.8	3.6
20°-30°	518.1	7.3
30°-40°	980.1	13.8
40°-50°	1466.2	20.6
50°-60°	1692.8	23.8
60°-70°	1500.5	21.1
70°-80°	606.5	8.5
80°-90°	24.2	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°	7126.0	100.0
0°-180°	7126.0	100.0

**Coefficient of Utilization**

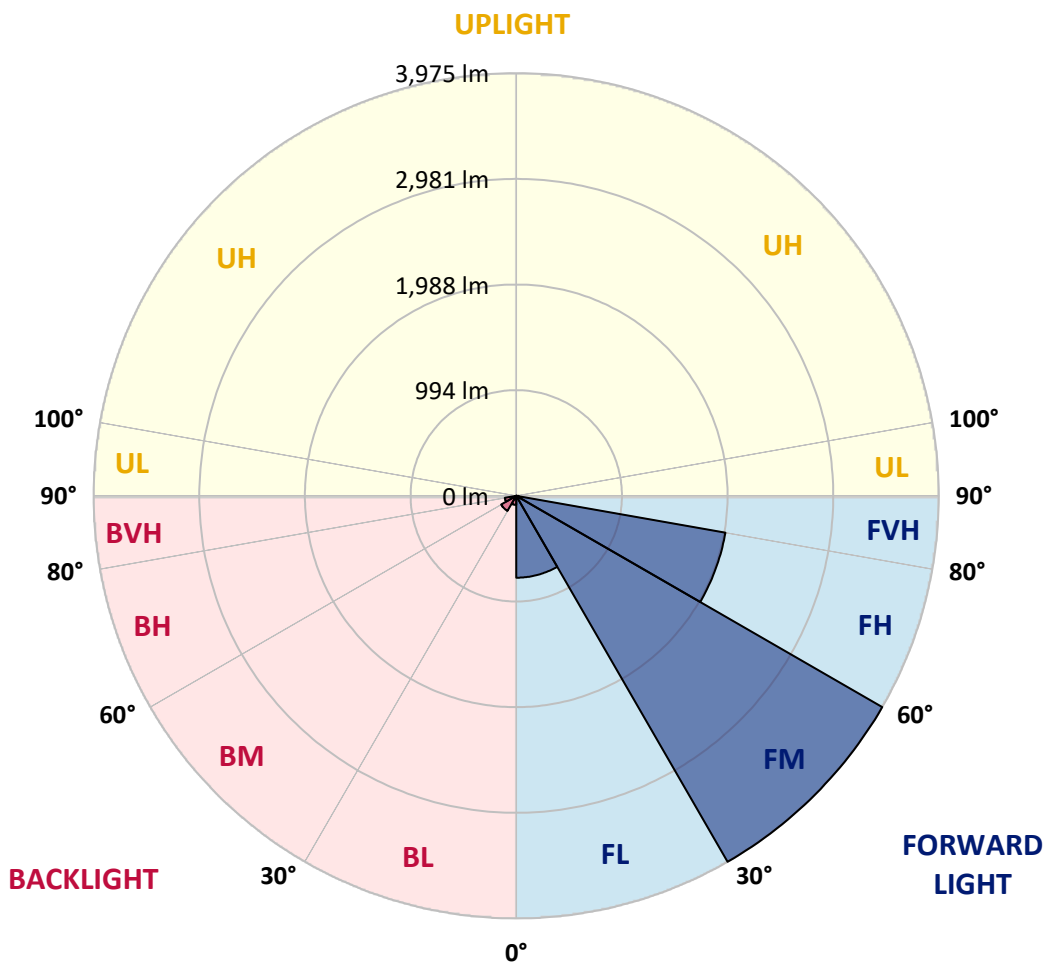


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.4	10.8			
FM (30°-60°)	3975.2	55.8			
FH (60°-80°)	1998.1	28.0			G2/5000
FVH (80°-90°)	23.1	0.3			G1/100
BL (0°-30°)	85.4	1.2	B0/110		
BM (30°-60°)	163.9	2.3	B0/220		
BH (60°-80°)	108.9	1.5	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6
2.5°	1232.1	1236.4	1227.9	1208.6	1191.5	1150.8	1118.8	1061.0	999.0	999.0	924.1
5°	1377.6	1373.3	1369.0	1354.1	1341.2	1307.0	1264.2	1202.2	1105.9	1097.4	973.3
7.5°	1448.2	1443.9	1435.3	1428.9	1428.9	1405.4	1364.8	1300.6	1193.6	1185.1	1018.2
10°	1531.6	1523.0	1523.0	1505.9	1501.7	1473.9	1452.5	1396.8	1279.2	1268.5	1069.6
12.5°	1630.0	1621.4	1623.6	1608.6	1602.2	1572.2	1542.3	1488.8	1371.2	1360.5	1129.5
15°	1685.6	1681.3	1694.2	1696.3	1700.6	1674.9	1647.1	1591.5	1473.9	1458.9	1200.0
17.5°	1717.7	1717.7	1732.7	1760.5	1792.6	1777.6	1756.2	1711.3	1578.7	1570.1	1274.9
20°	1779.7	1773.3	1799.0	1824.7	1865.3	1878.1	1871.7	1837.5	1704.9	1679.2	1356.2
22.5°	1882.4	1873.9	1897.4	1929.5	1978.7	1983.0	1987.2	1970.1	1833.2	1807.6	1441.8
25°	2124.1	2102.8	2081.4	2077.1	2096.3	2113.4	2100.6	2113.4	1978.7	1955.2	1533.7
27.5°	2594.7	2558.4	2455.7	2342.3	2263.2	2278.2	2237.5	2261.0	2145.5	2115.6	1619.3
30°	3046.1	3009.7	2926.3	2725.2	2543.4	2462.1	2402.2	2393.7	2316.7	2282.4	1717.7
32.5°	3360.5	3337.0	3281.4	3146.6	2919.9	2712.4	2596.9	2556.2	2545.5	2492.1	1843.9
35°	3574.5	3553.1	3514.6	3405.5	3238.6	3007.6	2808.7	2718.8	2800.1	2735.9	1987.2
37.5°	3702.8	3687.8	3645.1	3570.2	3480.3	3328.5	3071.8	2928.4	3056.8	2996.9	2171.2
40°	3796.9	3758.4	3728.5	3670.7	3640.8	3591.6	3371.2	3146.6	3334.9	3272.8	2353.0
42.5°	3805.5	3788.4	3764.8	3730.6	3734.9	3767.0	3690.0	3399.1	3615.1	3557.3	2545.5
45°	3803.3	3786.2	3769.1	3734.9	3756.3	3876.1	3946.7	3664.3	3888.9	3829.0	2748.8
47.5°	3741.3	3728.5	3732.8	3732.8	3760.6	3923.1	4145.6	3933.8	4162.7	4105.0	2994.8
50°	3523.1	3536.0	3621.5	3666.4	3715.6	3925.3	4284.6	4216.2	4457.9	4417.3	3232.2
52.5°	2832.2	2904.9	3251.5	3488.9	3632.2	3882.5	4374.5	4513.5	4832.3	4770.2	3501.7
55°	2164.8	2169.1	2502.8	3054.7	3467.5	3805.5	4425.8	4714.6	5116.8	5082.5	3739.2
57.5°	1756.2	1754.1	1918.8	2415.1	3039.7	3683.6	4438.7	4862.2	5418.4	5354.2	4013.0
60°	1435.3	1426.8	1525.2	1831.1	2483.5	3396.9	4391.6	4982.0	5728.5	5705.0	4299.6
62.5°	1037.5	1046.0	1176.5	1414.0	1914.5	2868.6	4291.1	5018.4	6102.9	6079.4	4620.5
65°	596.8	622.5	765.8	1018.2	1467.4	2243.9	4004.4	4990.6	6468.7	6466.5	4917.8
67.5°	299.5	301.6	378.6	569.0	986.1	1679.2	3371.2	4815.1	6772.4	6725.4	5089.0
70°	192.5	196.8	222.5	293.1	545.5	1163.7	2575.5	4318.9	6582.1	6564.9	4838.7
72.5°	147.6	151.9	173.3	192.5	284.5	661.0	1743.4	3356.3	5495.4	5448.3	3773.4
75°	115.5	117.7	139.0	156.2	190.4	310.2	874.9	2092.1	3540.2	3418.3	2147.7
77.5°	92.0	94.1	104.8	124.1	145.5	173.3	258.8	941.2	1439.6	1285.6	697.4
80°	59.9	62.0	79.1	96.3	124.1	113.4	100.5	271.7	308.0	278.1	124.1
82.5°	34.2	36.4	53.5	77.0	94.1	64.2	57.8	79.1	72.7	70.6	38.5
85°	10.7	10.7	36.4	53.5	42.8	19.3	36.4	27.8	23.5	21.4	12.8
87.5°	2.1	2.1	17.1	19.3	6.4	2.1	4.3	6.4	8.6	10.7	6.4
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°	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6
2.5°	887.7	845.0	765.8	697.4	631.0	573.3	532.6	496.3	470.6	464.2	453.5
5°	894.2	810.7	658.8	530.5	419.3	329.4	278.1	243.9	226.7	216.1	216.1
7.5°	900.6	776.5	558.3	387.2	265.3	201.1	169.0	154.0	147.6	145.5	143.3
10°	913.4	750.8	472.7	278.1	181.8	151.9	139.0	132.6	128.3	126.2	126.2
12.5°	934.8	729.4	393.6	205.4	149.7	134.8	126.2	117.7	113.4	111.2	111.2
15°	962.6	714.5	325.1	164.7	136.9	121.9	111.2	102.7	96.3	94.1	94.1
17.5°	1001.1	703.8	267.4	145.5	126.2	109.1	96.3	87.7	81.3	79.1	79.1
20°	1039.6	703.8	220.3	134.8	115.5	96.3	83.4	72.7	66.3	64.2	64.2
22.5°	1090.9	701.6	184.0	124.1	102.7	83.4	70.6	57.8	53.5	51.3	51.3
25°	1133.7	701.6	158.3	113.4	89.8	72.7	57.8	47.1	42.8	40.6	40.6
27.5°	1185.1	695.2	134.8	100.5	77.0	59.9	47.1	38.5	34.2	32.1	32.1
30°	1230.0	686.7	119.8	89.8	66.3	49.2	38.5	29.9	27.8	27.8	27.8
32.5°	1304.9	680.2	107.0	77.0	55.6	40.6	29.9	23.5	21.4	21.4	21.4
35°	1394.7	680.2	98.4	66.3	47.1	34.2	23.5	19.3	17.1	17.1	17.1
37.5°	1512.4	686.7	87.7	57.8	38.5	27.8	19.3	15.0	12.8	12.8	12.8
40°	1636.4	701.6	79.1	51.3	34.2	21.4	15.0	10.7	8.6	10.7	10.7
42.5°	1784.0	716.6	70.6	44.9	27.8	17.1	10.7	6.4	4.3	6.4	6.4
45°	1929.5	731.6	66.3	38.5	23.5	12.8	6.4	4.3	2.1	4.3	4.3
47.5°	2109.2	767.9	62.0	34.2	19.3	10.7	4.3	2.1	0.0	2.1	2.1
50°	2316.7	808.6	55.6	27.8	15.0	8.6	4.3	0.0	0.0	0.0	0.0
52.5°	2515.6	842.8	49.2	23.5	12.8	6.4	2.1	0.0	0.0	0.0	0.0
55°	2714.5	864.2	42.8	19.3	10.7	6.4	2.1	0.0	0.0	0.0	0.0
57.5°	2928.4	877.0	38.5	17.1	8.6	4.3	2.1	0.0	0.0	0.0	0.0
60°	3165.9	877.0	32.1	15.0	6.4	4.3	2.1	0.0	0.0	0.0	0.0
62.5°	3429.0	851.4	29.9	12.8	6.4	4.3	2.1	0.0	0.0	0.0	0.0
65°	3642.9	759.4	25.7	10.7	6.4	4.3	2.1	0.0	0.0	0.0	0.0
67.5°	3651.5	601.1	23.5	8.6	6.4	4.3	2.1	0.0	0.0	0.0	0.0
70°	3255.7	410.7	19.3	6.4	4.3	4.3	2.1	0.0	0.0	0.0	0.0
72.5°	2436.5	220.3	17.1	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
75°	1313.4	85.6	10.7	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
77.5°	382.9	42.8	6.4	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0
80°	70.6	21.4	4.3	4.3	4.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.3	8.6	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	8.6	4.3	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.1	2.1	2.1	2.1	2.1	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)