

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: P594760

Luminaire Tested: **ISS-PA1D-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4980 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

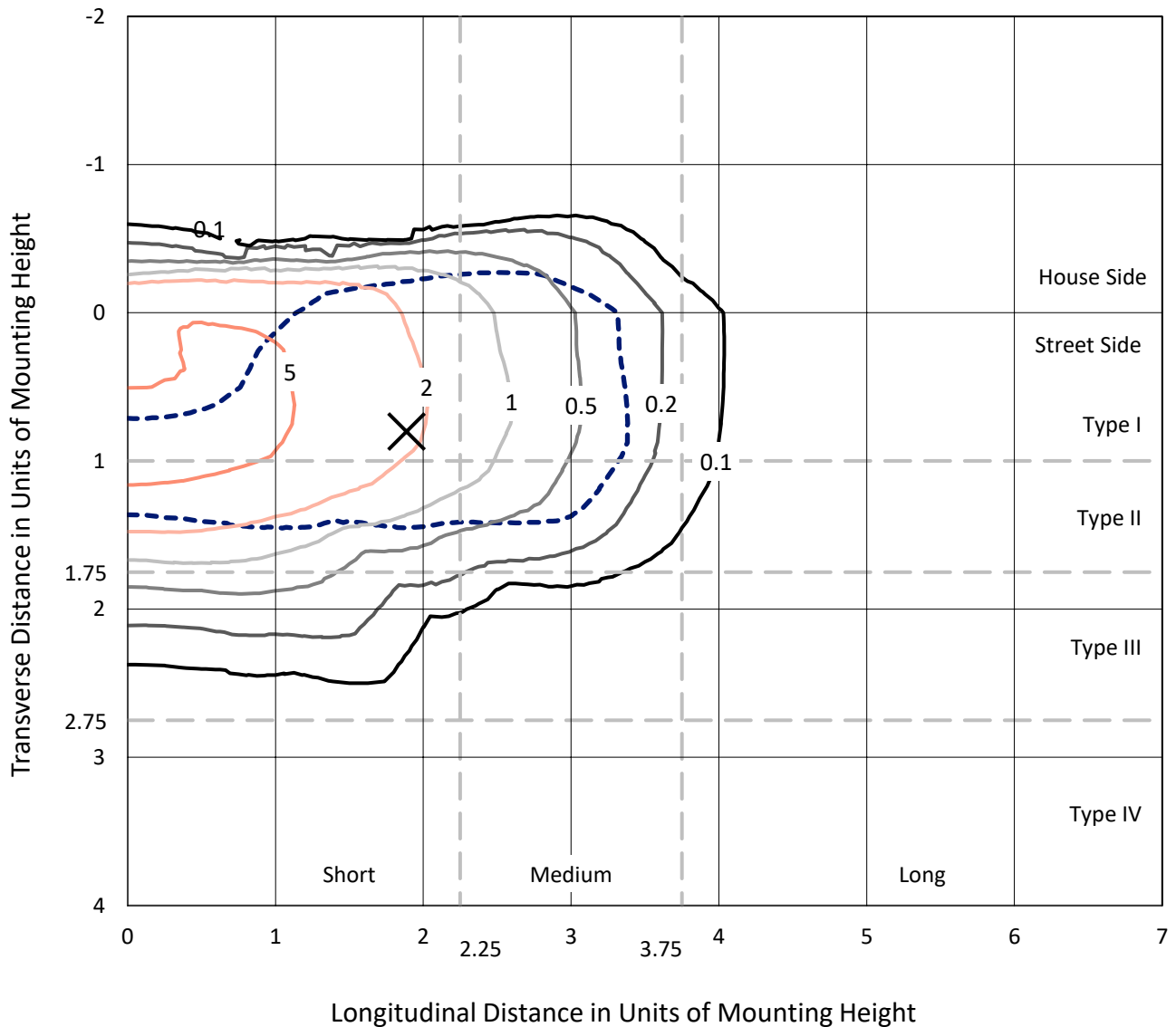
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

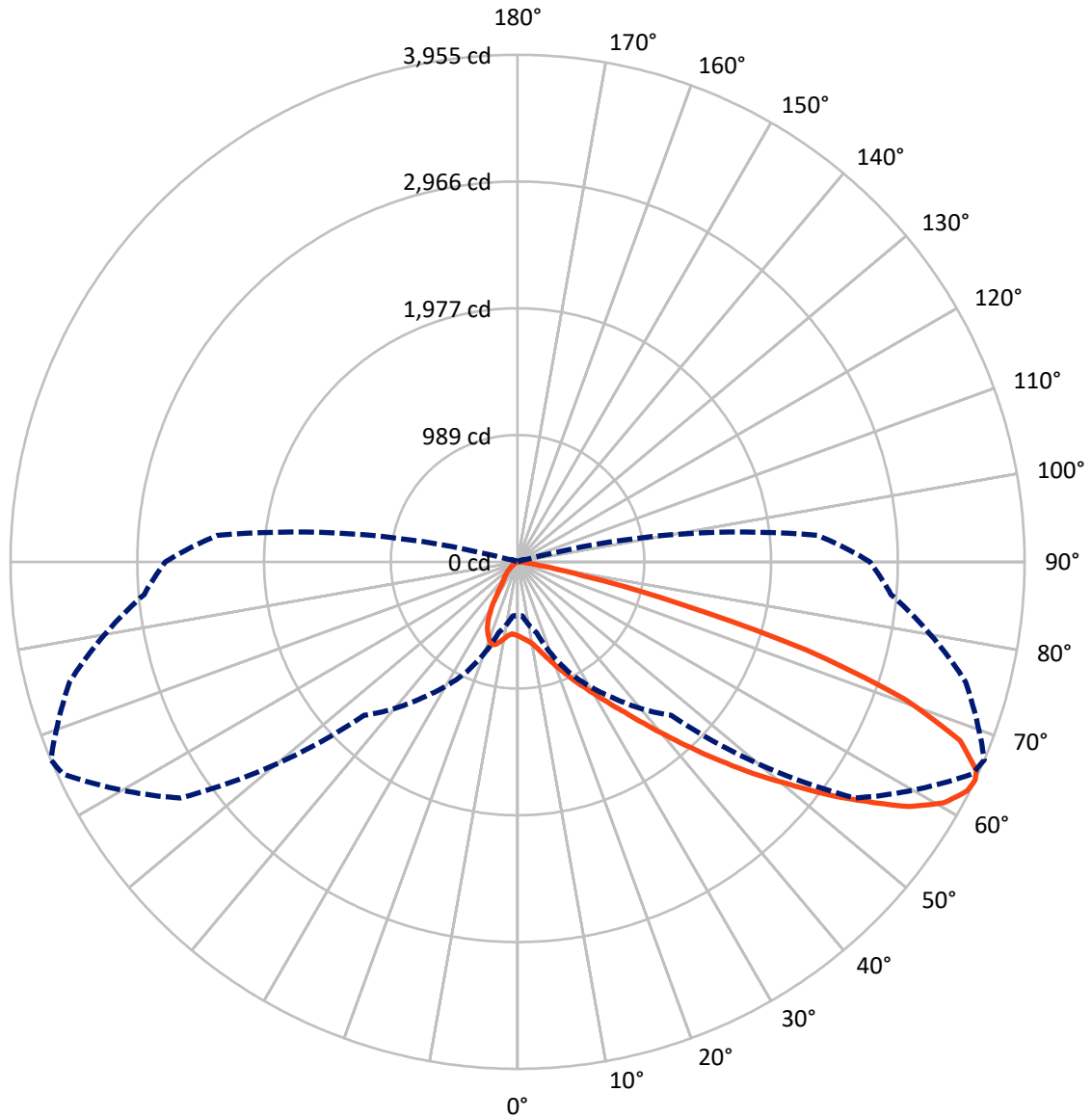
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.0	0.0	637.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4343.0	0.0	4343.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	4980.0	0.0	4980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.1
10°-20°	162.0	3.3
20°-30°	294.0	5.9
30°-40°	563.1	11.3
40°-50°	1037.9	20.8
50°-60°	1340.5	26.9
60°-70°	1098.0	22.0
70°-80°	403.6	8.1
80°-90°	26.0	0.5
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°	4980.0	100.0
0°-180°	4980.0	100.0

Coefficient of Utilization



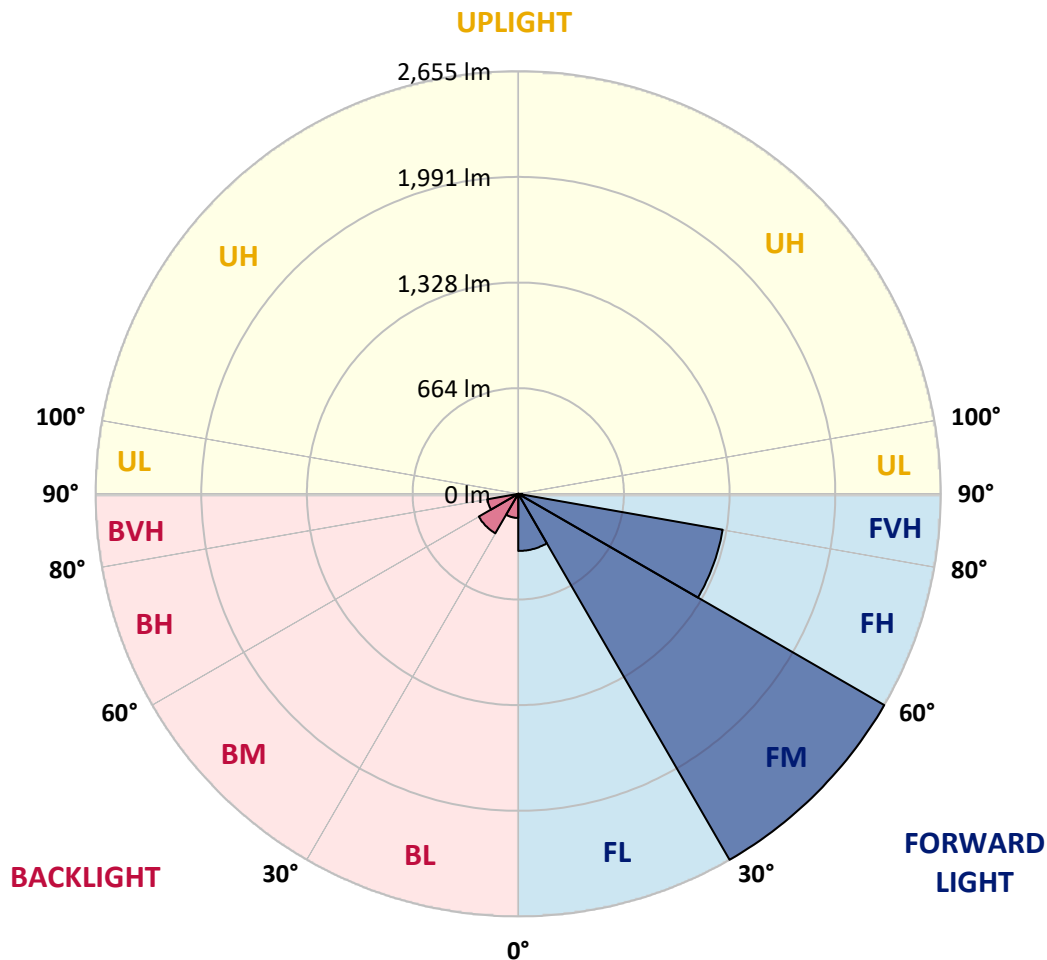
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.0	7.2			
FM (30°-60°)	2655.1	53.3			
FH (60°-80°)	1304.0	26.2			G1/1800
FVH (80°-90°)	24.9	0.5			G1/100
BL (0°-30°)	151.8	3.0	B1/500		
BM (30°-60°)	286.4	5.8	B1/1000		
BH (60°-80°)	197.6	4.0	B1/500		G1/500
BVH (80°-90°)	1.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	599.2	599.2	602.6	600.9	600.9	597.5	592.3	594.1	592.3	590.6	585.5
5°	588.9	590.6	592.3	595.8	602.6	606.0	606.0	607.8	607.8	606.0	599.2
7.5°	583.8	587.2	590.6	594.1	602.6	607.8	616.3	626.6	626.6	628.3	621.5
10°	602.6	606.0	611.2	616.3	624.9	633.4	640.3	652.3	652.3	655.7	654.0
12.5°	642.0	642.0	643.7	647.1	659.1	669.4	681.4	691.6	693.4	695.1	689.9
15°	689.9	689.9	691.6	691.6	698.5	713.9	736.2	746.4	744.7	743.0	732.7
17.5°	744.7	744.7	744.7	746.4	749.9	758.4	784.1	804.6	802.9	801.2	780.7
20°	796.1	799.5	802.9	804.6	808.1	814.9	842.3	866.3	871.4	864.6	828.6
22.5°	854.3	856.0	857.7	862.8	871.4	874.8	902.2	938.2	943.3	934.7	886.8
25°	912.5	915.9	921.0	927.9	936.5	953.6	972.4	1020.3	1025.5	1015.2	950.2
27.5°	1040.9	1039.2	1023.8	1011.8	1013.5	1025.5	1051.2	1102.5	1107.7	1097.4	1013.5
30°	1260.0	1239.5	1210.4	1157.3	1105.9	1111.1	1147.0	1196.7	1205.2	1191.5	1083.7
32.5°	1571.6	1551.1	1479.2	1362.7	1249.8	1212.1	1258.3	1306.2	1316.5	1301.1	1165.9
35°	1874.6	1869.5	1801.0	1660.6	1468.9	1364.5	1376.4	1438.1	1441.5	1422.7	1268.6
37.5°	2249.6	2230.7	2136.6	1979.1	1753.1	1566.5	1532.2	1590.4	1599.0	1576.7	1393.6
40°	2497.8	2490.9	2434.4	2323.2	2080.1	1845.5	1722.3	1778.8	1777.0	1744.5	1537.4
42.5°	2641.6	2645.0	2641.6	2588.5	2449.9	2181.1	1973.9	1977.3	1982.5	1948.2	1703.4
45°	2739.2	2739.2	2744.3	2787.1	2734.0	2581.7	2280.4	2203.3	2210.2	2157.1	1876.3
47.5°	2737.5	2747.7	2775.1	2874.4	2946.3	2954.9	2663.9	2467.0	2463.5	2383.1	2054.4
50°	2552.6	2545.7	2658.7	2881.3	3097.0	3263.0	3026.8	2746.0	2716.9	2617.6	2239.3
52.5°	2136.6	2158.8	2347.1	2674.1	3132.9	3471.9	3340.1	3050.8	3013.1	2850.5	2401.9
55°	1773.6	1797.6	1980.8	2300.9	2937.8	3545.5	3550.7	3374.3	3299.0	3052.5	2569.7
57.5°	1331.9	1378.1	1648.6	1950.0	2509.8	3362.3	3626.0	3684.2	3602.0	3247.6	2706.7
60°	850.9	878.2	1181.3	1552.8	2033.8	2883.0	3610.6	3864.0	3819.4	3425.7	2821.4
62.5°	556.4	571.8	780.7	1169.3	1549.3	2172.5	3427.4	3935.9	3935.9	3545.5	2907.0
64°	419.4	422.9	571.8	950.2	1292.5	1693.2	3211.7	3913.6	3954.7	3617.4	2924.1
65°	332.1	333.8	446.8	789.2	1160.7	1388.4	3023.4	3865.7	3932.4	3644.8	2934.3
67.5°	232.8	238.0	289.3	455.4	832.0	801.2	2241.0	3639.7	3721.9	3653.4	2920.6
70°	202.0	208.9	243.1	297.9	594.1	465.7	1191.5	3102.1	3199.7	3403.4	2718.6
72.5°	154.1	162.6	203.7	251.7	417.7	315.0	460.5	2203.3	2357.4	2631.3	2244.4
75°	111.3	114.7	150.7	205.4	292.7	243.1	198.6	1136.8	1292.5	1552.8	1395.3
77.5°	70.2	75.3	102.7	154.1	261.9	184.9	118.1	414.3	522.2	676.2	609.5
80°	41.1	42.8	61.6	106.1	176.3	137.0	75.3	147.2	178.0	251.7	162.6
82.5°	24.0	25.7	39.4	71.9	114.7	106.1	47.9	75.3	83.9	95.9	34.2
85°	8.6	8.6	27.4	42.8	61.6	53.1	27.4	39.4	42.8	53.1	10.3
87.5°	1.7	1.7	13.7	22.3	22.3	8.6	13.7	17.1	20.5	29.1	3.4
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°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	583.8	578.7	573.5	566.7	561.5	551.3	546.1	539.3	537.6	534.1	532.4
5°	597.5	588.9	576.9	559.8	549.5	534.1	523.9	513.6	511.9	508.5	506.7
7.5°	616.3	607.8	592.3	573.5	556.4	541.0	529.0	513.6	498.2	486.2	486.2
10°	647.1	636.9	616.3	599.2	578.7	546.1	489.6	438.3	405.7	385.2	378.3
12.5°	684.8	671.1	648.8	628.3	588.9	486.2	398.9	332.1	277.3	251.7	246.5
15°	724.2	712.2	689.9	659.1	541.0	405.7	291.0	188.3	135.2	111.3	114.7
17.5°	767.0	749.9	724.2	662.5	475.9	303.0	155.8	95.9	82.2	78.8	78.8
20°	811.5	789.2	763.5	624.9	392.0	174.6	89.0	71.9	66.8	61.6	63.3
22.5°	859.4	832.0	792.6	568.4	280.8	94.2	68.5	58.2	51.4	49.6	49.6
25°	910.8	871.4	821.8	503.3	162.6	71.9	56.5	46.2	41.1	39.4	37.7
27.5°	965.6	915.9	828.6	417.7	92.4	59.9	44.5	36.0	30.8	29.1	29.1
30°	1015.2	960.4	813.2	309.9	70.2	49.6	36.0	27.4	24.0	24.0	24.0
32.5°	1082.0	1010.1	765.3	193.5	56.5	39.4	27.4	22.3	18.8	18.8	18.8
35°	1169.3	1083.7	717.3	102.7	46.2	32.5	22.3	17.1	15.4	15.4	15.4
37.5°	1289.1	1181.3	674.5	65.1	37.7	25.7	17.1	13.7	12.0	12.0	12.0
40°	1412.4	1297.7	614.6	49.6	30.8	20.5	13.7	10.3	8.6	8.6	10.3
42.5°	1566.5	1432.9	546.1	42.8	25.7	17.1	10.3	6.8	5.1	6.8	6.8
45°	1722.3	1575.0	450.3	36.0	22.3	13.7	6.8	3.4	3.4	5.1	5.1
47.5°	1883.2	1725.7	349.2	30.8	18.8	10.3	5.1	1.7	1.7	3.4	3.4
50°	2049.2	1874.6	260.2	27.4	15.4	8.6	3.4	1.7	0.0	1.7	1.7
52.5°	2215.3	2018.4	202.0	24.0	13.7	6.8	1.7	0.0	0.0	0.0	1.7
55°	2369.4	2148.5	160.9	20.5	12.0	5.1	1.7	0.0	0.0	0.0	0.0
57.5°	2499.5	2244.4	128.4	18.8	10.3	3.4	1.7	0.0	0.0	0.0	0.0
60°	2622.8	2319.7	99.3	15.4	8.6	3.4	1.7	0.0	0.0	0.0	0.0
62.5°	2710.1	2348.8	80.5	13.7	6.8	3.4	0.0	0.0	0.0	0.0	0.0
64°	2747.7	2352.3	70.2	12.0	6.8	3.4	1.7	0.0	0.0	0.0	0.0
65°	2770.0	2342.0	65.1	12.0	6.8	3.4	1.7	0.0	0.0	0.0	0.0
67.5°	2775.1	2285.5	49.6	10.3	5.1	1.7	1.7	0.0	0.0	0.0	0.0
70°	2624.5	2088.6	36.0	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	2193.1	1595.6	24.0	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
75°	1369.6	689.9	13.7	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	566.7	208.9	8.6	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
80°	130.1	49.6	3.4	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	30.8	8.6	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	6.8	1.7	1.7	1.7	1.7	0.0	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)