

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: P594647

Luminaire Tested: **ISS-PA1C-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-740-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

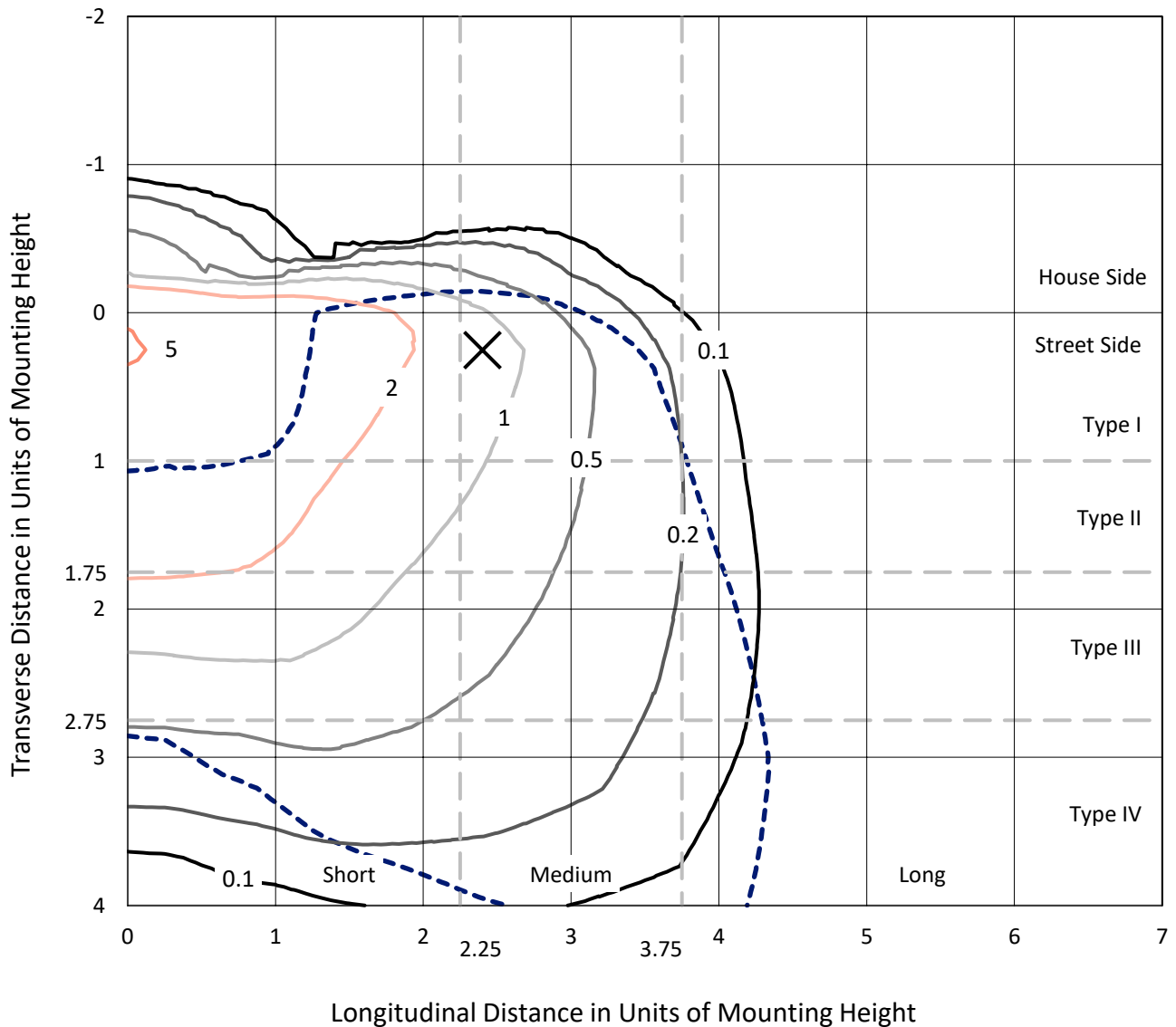
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

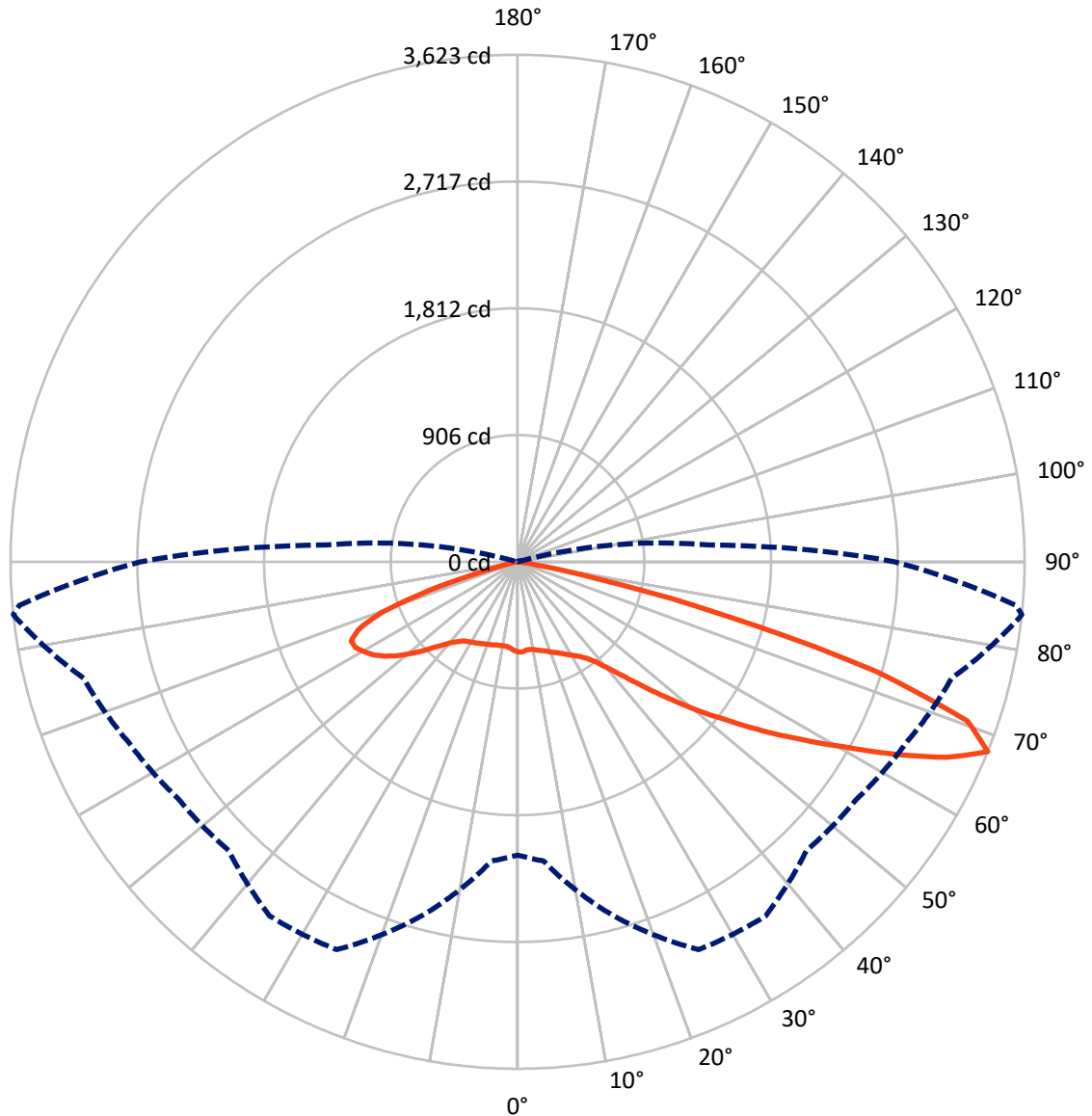
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: ISS-PA1C-740-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.6	0.0	449.6
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	4714.4	0.0	4714.4
	% Fixture	91.3	0.0	91.3
Total	Lumens	5164.0	0.0	5164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.1
10°-20°	150.9	2.9
20°-30°	241.7	4.7
30°-40°	347.8	6.7
40°-50°	596.9	11.6
50°-60°	1042.9	20.2
60°-70°	1493.5	28.9
70°-80°	1122.5	21.7
80°-90°	110.2	2.1
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°	5164.0	100.0
0°-180°	5164.0	100.0

Coefficient of Utilization

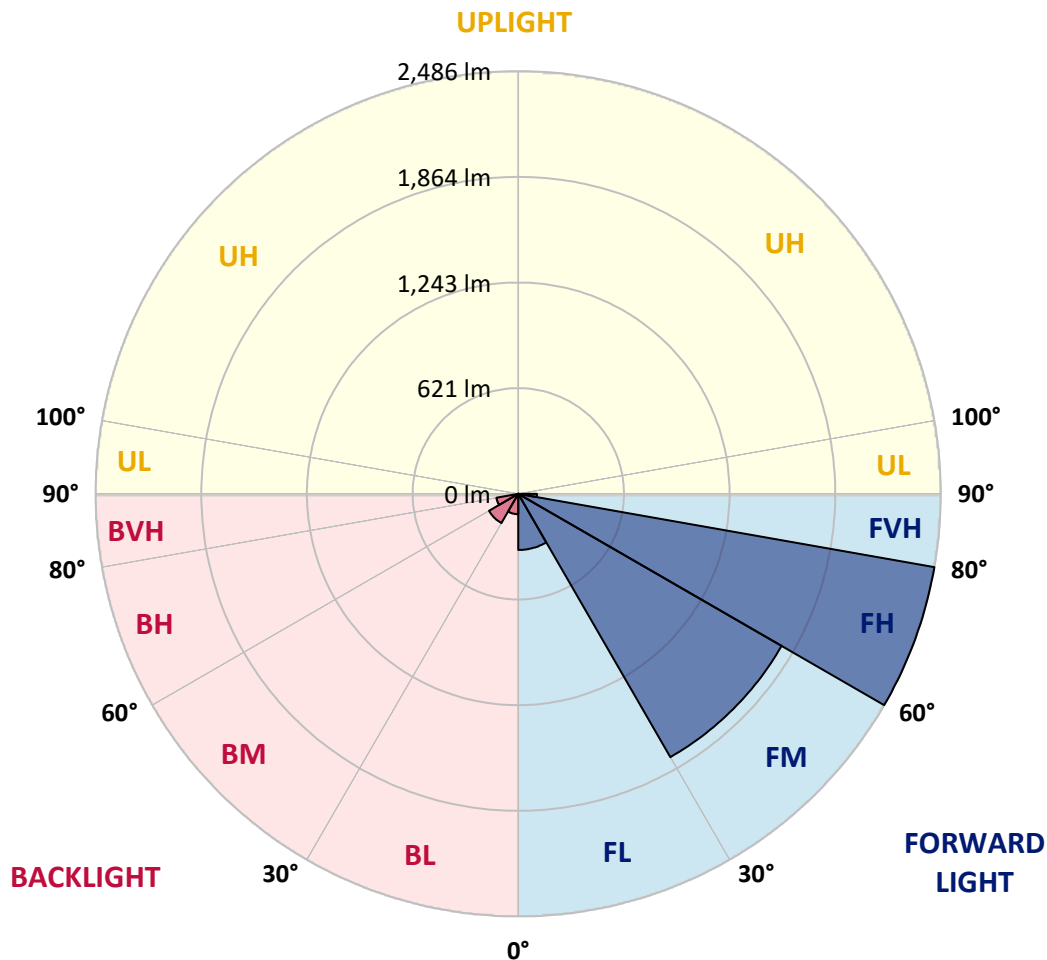


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.1	6.4			
FM (30°-60°)	1788.8	34.6			
FH (60°-80°)	2485.7	48.1			G2/5000
FVH (80°-90°)	109.8	2.1			G2/225
BL (0°-30°)	120.1	2.3	B1/500		
BM (30°-60°)	198.8	3.9	B0/220		
BH (60°-80°)	130.3	2.5	B1/500		G1/500
BVH (80°-90°)	0.3	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 IV Medium





REPORT NUMBER: P594647
 CATALOG NUMBER: ISS-PA1C-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4
2.5°	680.0	683.5	685.2	676.5	676.5	669.5	659.1	655.6	650.3	645.1	643.4
5°	714.9	720.1	718.3	707.9	702.7	688.7	674.8	660.8	646.9	634.7	634.7
7.5°	755.0	756.7	751.5	734.0	723.6	704.4	683.5	667.8	650.3	632.9	629.4
10°	789.8	788.1	781.1	763.7	744.5	720.1	697.4	680.0	659.1	638.1	636.4
12.5°	814.2	816.0	807.3	782.9	763.7	735.8	713.1	695.7	671.3	648.6	643.4
15°	835.2	840.4	829.9	805.5	777.6	753.2	735.8	713.1	685.2	659.1	655.6
17.5°	854.3	856.1	847.4	819.5	793.3	772.4	753.2	732.3	704.4	671.3	667.8
20°	864.8	870.0	864.8	829.9	805.5	789.8	774.1	753.2	721.8	690.4	687.0
22.5°	871.8	877.0	875.3	836.9	816.0	803.8	789.8	770.7	741.0	704.4	700.9
25°	875.3	878.8	882.2	843.9	826.4	821.2	809.0	791.6	763.7	725.3	721.8
27.5°	880.5	884.0	887.5	852.6	845.6	840.4	836.9	823.0	789.8	749.7	744.5
30°	889.2	894.4	897.9	868.3	868.3	873.5	873.5	854.3	817.7	775.9	772.4
32.5°	899.7	901.4	908.4	884.0	892.7	904.9	901.4	882.2	843.9	805.5	800.3
35°	927.6	927.6	939.8	908.4	918.9	929.3	932.8	918.9	884.0	845.6	843.9
37.5°	995.6	995.6	1006.0	955.5	953.7	964.2	976.4	976.4	941.5	906.6	903.2
40°	1149.0	1149.0	1149.0	1032.2	1013.0	1025.2	1044.4	1054.9	1025.2	1000.8	1000.8
42.5°	1405.3	1407.0	1380.9	1173.4	1091.5	1112.4	1133.3	1156.0	1140.3	1122.9	1119.4
45°	1670.3	1661.6	1658.1	1380.9	1231.0	1220.5	1246.6	1285.0	1290.2	1279.8	1286.7
47.5°	1851.7	1860.4	1865.6	1638.9	1426.2	1354.7	1379.2	1433.2	1464.6	1462.8	1473.3
50°	2027.8	2033.0	2038.2	1923.1	1684.3	1523.9	1539.6	1612.8	1656.4	1670.3	1677.3
52.5°	2181.2	2167.2	2189.9	2174.2	1958.0	1717.4	1717.4	1801.1	1879.6	1884.8	1883.0
55°	2226.5	2235.2	2303.2	2350.3	2238.7	1954.5	1919.7	2008.6	2092.3	2135.9	2135.9
57.5°	2327.6	2336.4	2418.3	2524.7	2442.7	2188.2	2135.9	2223.0	2313.7	2397.4	2409.6
60°	2460.2	2461.9	2549.1	2711.2	2597.9	2399.1	2355.5	2454.9	2545.6	2688.6	2728.7
62.5°	2531.6	2538.6	2658.9	2871.6	2793.2	2584.0	2573.5	2664.2	2781.0	3032.0	3068.7
65°	2421.8	2467.1	2728.7	2967.5	2951.8	2756.6	2793.2	2866.4	3000.7	3368.6	3403.4
67.5°	2095.8	2146.3	2613.6	3058.2	3089.6	2918.7	2957.1	3063.4	3211.6	3623.1	3574.3
70°	1930.1	1972.0	2334.6	3108.8	3204.7	3100.0	3117.5	3216.9	3260.4	3410.4	3358.1
72.5°	1462.8	1506.4	1975.4	2936.1	3304.0	3290.1	3246.5	3164.6	2906.5	2683.3	2556.1
75°	646.9	697.4	1314.6	2294.5	3058.2	3398.2	3168.0	2709.5	2087.0	1523.9	1412.3
77.5°	285.9	315.6	509.1	1274.5	2298.0	2941.4	2505.5	1806.3	1047.9	566.7	526.6
80°	92.4	95.9	160.4	446.4	1175.2	1947.6	1534.3	868.3	322.6	132.5	123.8
82.5°	36.6	40.1	76.7	188.3	486.5	774.1	753.2	313.8	94.2	34.9	34.9
85°	10.5	12.2	38.4	99.4	172.6	217.9	266.8	104.6	50.6	10.5	10.5
87.5°	3.5	3.5	13.9	31.4	33.1	22.7	50.6	40.1	31.4	3.5	3.5
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°	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4
2.5°	639.9	636.4	627.7	620.7	617.2	612.0	605.0	601.5	601.5	599.8	594.6
5°	627.7	622.4	606.8	596.3	587.6	568.4	554.5	537.0	519.6	514.3	519.6
7.5°	622.4	612.0	591.1	570.1	533.5	483.0	449.8	413.2	401.0	385.3	387.1
10°	624.2	612.0	582.3	535.3	463.8	388.8	336.5	287.7	263.3	251.1	252.8
12.5°	629.4	615.5	573.6	488.2	385.3	294.7	214.5	176.1	169.1	169.1	169.1
15°	639.9	619.0	559.7	432.4	301.6	195.3	151.7	148.2	153.4	158.7	160.4
17.5°	650.3	629.4	538.8	374.9	219.7	146.5	141.2	141.2	146.5	151.7	153.4
20°	662.6	639.9	509.1	313.8	156.9	137.7	136.0	134.3	137.7	143.0	144.7
22.5°	681.7	650.3	474.2	242.4	136.0	132.5	129.0	127.3	129.0	134.3	136.0
25°	699.2	664.3	437.6	179.6	127.3	123.8	122.0	120.3	120.3	123.8	125.5
27.5°	720.1	680.0	397.5	134.3	116.8	115.1	113.3	111.6	109.8	113.3	115.1
30°	746.2	693.9	353.9	113.3	106.4	104.6	102.9	101.1	99.4	101.1	102.9
32.5°	779.4	713.1	303.4	102.9	97.6	92.4	90.7	90.7	88.9	88.9	90.7
35°	823.0	734.0	249.3	95.9	88.9	83.7	78.5	76.7	76.7	76.7	78.5
37.5°	887.5	772.4	197.0	88.9	81.9	73.2	68.0	62.8	62.8	62.8	62.8
40°	976.4	814.2	153.4	83.7	76.7	64.5	57.5	50.6	47.1	45.3	47.1
42.5°	1114.1	877.0	118.6	76.7	73.2	57.5	47.1	38.4	31.4	29.6	31.4
45°	1265.8	945.0	94.2	71.5	66.3	48.8	36.6	26.2	19.2	17.4	19.2
47.5°	1457.6	1030.4	80.2	64.5	57.5	40.1	26.2	13.9	8.7	10.5	10.5
50°	1642.4	1114.1	73.2	59.3	50.6	33.1	15.7	7.0	3.5	5.2	5.2
52.5°	1846.4	1203.1	68.0	52.3	43.6	24.4	8.7	1.7	0.0	1.7	1.7
55°	2052.2	1283.3	62.8	47.1	34.9	17.4	3.5	0.0	0.0	0.0	1.7
57.5°	2275.3	1351.3	57.5	40.1	26.2	10.5	1.7	0.0	0.0	0.0	0.0
60°	2461.9	1403.6	52.3	34.9	17.4	5.2	0.0	0.0	0.0	0.0	0.0
62.5°	2632.8	1450.6	40.1	26.2	10.5	3.5	0.0	0.0	0.0	0.0	0.0
65°	2746.1	1461.1	27.9	17.4	7.0	1.7	0.0	0.0	0.0	0.0	0.0
67.5°	2695.5	1370.4	17.4	12.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
70°	2369.5	1150.7	12.2	7.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1658.1	742.8	10.5	5.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0
75°	875.3	268.5	7.0	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	310.4	59.3	3.5	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0
80°	68.0	12.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.0	0.0	0.0	0.0	0.0	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)