

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: P594751

Luminaire Tested: **ISS-PA1D-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594751
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-827-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 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: 4607 lumens
Efficiency: N/A
Efficacy: 73.1 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

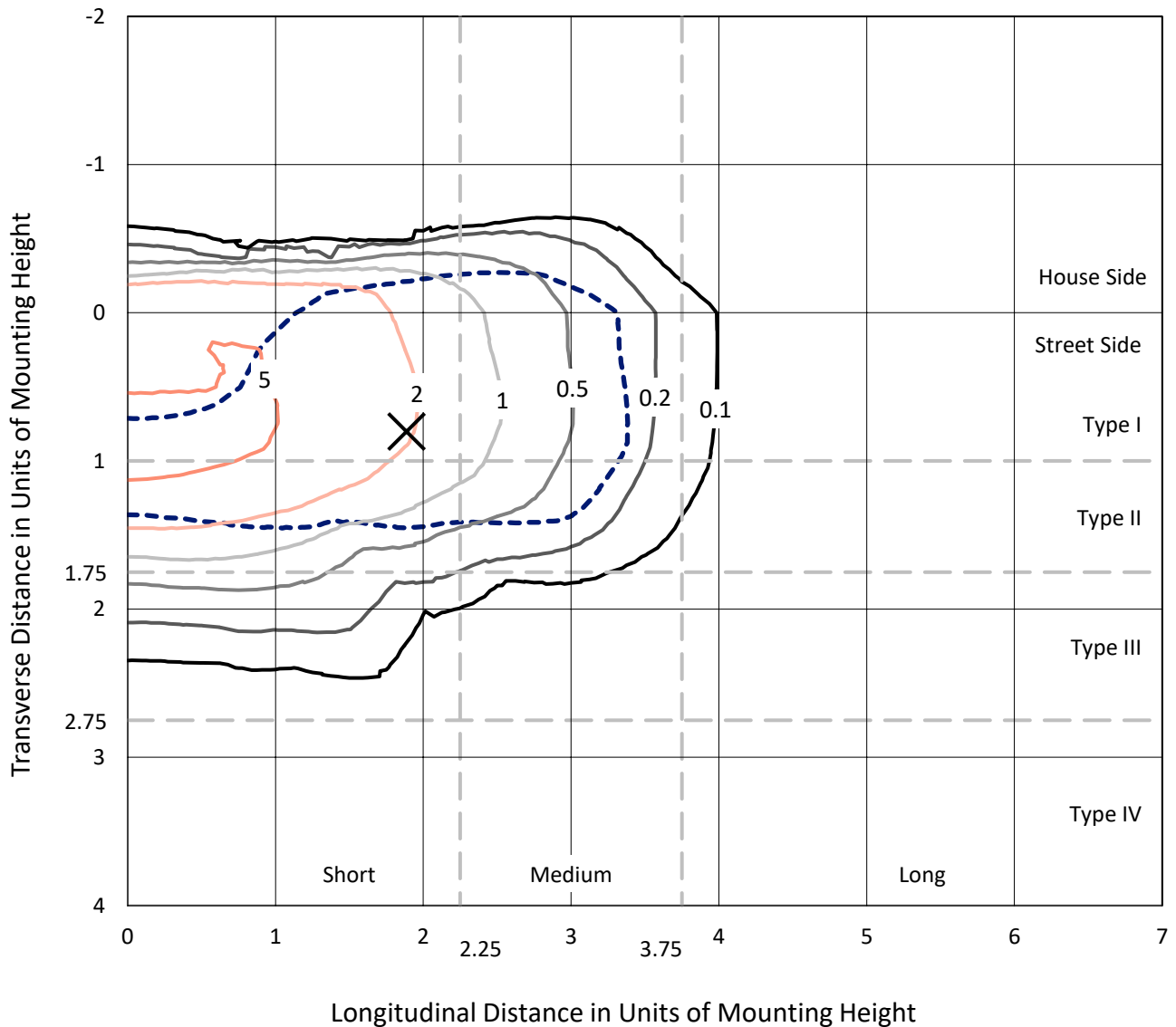
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

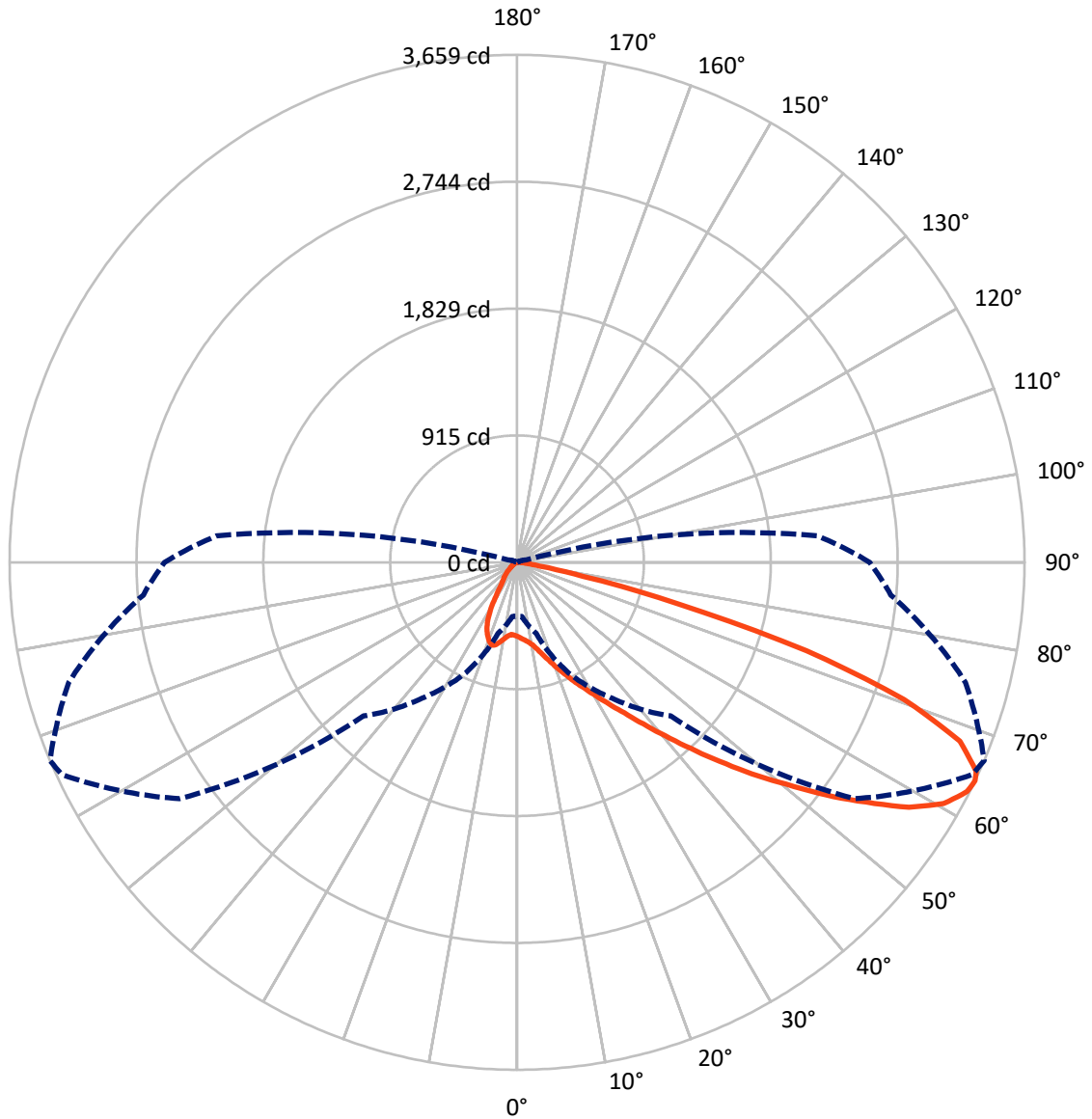
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 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	589.3	0.0	589.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4017.7	0.0	4017.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	4607.0	0.0	4607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.1
10°-20°	149.9	3.3
20°-30°	271.9	5.9
30°-40°	520.9	11.3
40°-50°	960.1	20.8
50°-60°	1240.1	26.9
60°-70°	1015.8	22.0
70°-80°	373.4	8.1
80°-90°	24.1	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°	4607.0	100.0
0°-180°	4607.0	100.0

Coefficient of Utilization

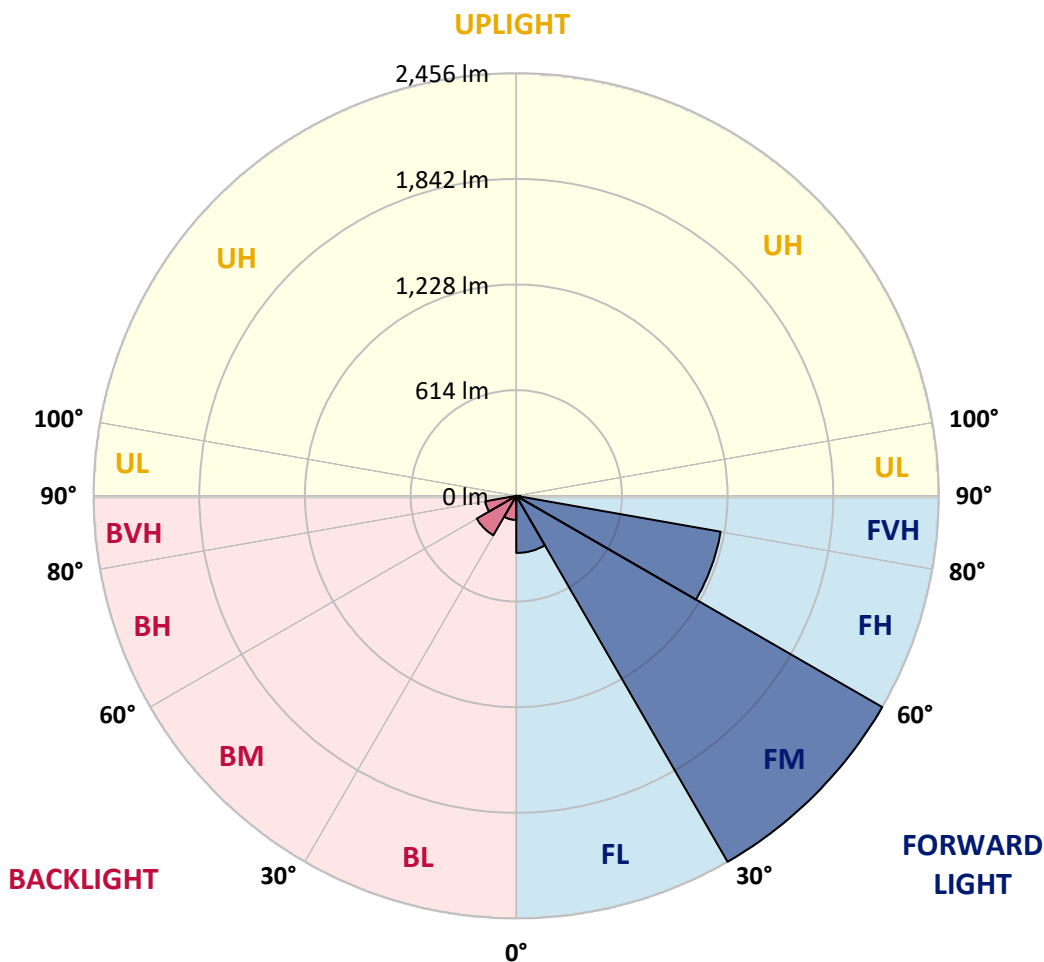


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.2	7.2			
FM (30°-60°)	2456.2	53.3			
FH (60°-80°)	1206.3	26.2			G1/1800
FVH (80°-90°)	23.0	0.5			G1/100
BL (0°-30°)	140.5	3.0	B1/500		
BM (30°-60°)	265.0	5.8	B1/1000		
BH (60°-80°)	182.8	4.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	554.3	554.3	557.5	555.9	555.9	552.7	548.0	549.6	548.0	546.4	541.6
5°	544.8	546.4	548.0	551.1	557.5	560.7	560.7	562.2	562.2	560.7	554.3
7.5°	540.1	543.2	546.4	549.6	557.5	562.2	570.2	579.7	579.7	581.2	574.9
10°	557.5	560.7	565.4	570.2	578.1	586.0	592.3	603.4	603.4	606.6	605.0
12.5°	593.9	593.9	595.5	598.7	609.7	619.2	630.3	639.8	641.4	643.0	638.3
15°	638.3	638.3	639.8	639.8	646.2	660.4	681.0	690.5	688.9	687.4	677.8
17.5°	688.9	688.9	688.9	690.5	693.7	701.6	725.4	744.4	742.8	741.2	722.2
20°	736.4	739.6	742.8	744.4	747.5	753.9	779.2	801.4	806.1	799.8	766.5
22.5°	790.3	791.9	793.5	798.2	806.1	809.3	834.6	867.9	872.7	864.7	820.4
25°	844.1	847.3	852.1	858.4	866.3	882.2	899.6	943.9	948.7	939.2	879.0
27.5°	962.9	961.3	947.1	936.0	937.6	948.7	972.4	1019.9	1024.7	1015.2	937.6
30°	1165.6	1146.6	1119.7	1070.6	1023.1	1027.9	1061.1	1107.0	1115.0	1102.3	1002.5
32.5°	1453.9	1434.9	1368.4	1260.7	1156.1	1121.3	1164.1	1208.4	1217.9	1203.7	1078.5
35°	1734.2	1729.5	1666.1	1536.2	1358.9	1262.3	1273.3	1330.4	1333.5	1316.1	1173.6
37.5°	2081.1	2063.6	1976.5	1830.8	1621.8	1449.1	1417.5	1471.3	1479.2	1458.6	1289.2
40°	2310.7	2304.4	2252.1	2149.2	1924.3	1707.3	1593.3	1645.5	1643.9	1613.9	1422.2
42.5°	2443.7	2446.9	2443.7	2394.6	2266.4	2017.7	1826.1	1829.2	1834.0	1802.3	1575.8
45°	2534.0	2534.0	2538.8	2578.4	2529.3	2388.3	2109.6	2038.3	2044.6	1995.5	1735.8
47.5°	2532.4	2541.9	2567.3	2659.1	2725.6	2733.6	2464.3	2282.2	2279.0	2204.6	1900.5
50°	2361.4	2355.0	2459.6	2665.5	2865.0	3018.6	2800.1	2540.3	2513.4	2421.6	2071.6
52.5°	1976.5	1997.1	2171.3	2473.8	2898.3	3211.9	3089.9	2822.3	2787.4	2637.0	2222.0
55°	1640.8	1662.9	1832.4	2128.6	2717.7	3280.0	3284.7	3121.6	3051.9	2823.8	2377.2
57.5°	1232.2	1274.9	1525.2	1803.9	2321.8	3110.5	3354.4	3408.2	3332.2	3004.4	2503.9
60°	787.1	812.5	1092.8	1436.5	1881.5	2667.1	3340.1	3574.5	3533.4	3169.1	2610.0
62.5°	514.7	529.0	722.2	1081.7	1433.3	2009.8	3170.7	3641.1	3641.1	3280.0	2689.2
64°	388.0	391.2	529.0	879.0	1195.7	1566.3	2971.1	3620.5	3658.5	3346.5	2705.1
65°	307.2	308.8	413.4	730.1	1073.8	1284.4	2796.9	3576.1	3637.9	3371.8	2714.6
67.5°	215.4	220.1	267.7	421.3	769.7	741.2	2073.1	3367.1	3443.1	3379.7	2701.9
70°	186.9	193.2	224.9	275.6	549.6	430.8	1102.3	2869.8	2960.0	3148.5	2515.0
72.5°	142.5	150.5	188.5	232.8	386.4	291.4	426.0	2038.3	2180.8	2434.2	2076.3
75°	102.9	106.1	139.4	190.1	270.8	224.9	183.7	1051.6	1195.7	1436.5	1290.8
77.5°	64.9	69.7	95.0	142.5	242.3	171.0	109.3	383.3	483.0	625.6	563.8
80°	38.0	39.6	57.0	98.2	163.1	126.7	69.7	136.2	164.7	232.8	150.5
82.5°	22.2	23.8	36.4	66.5	106.1	98.2	44.3	69.7	77.6	88.7	31.7
85°	7.9	7.9	25.3	39.6	57.0	49.1	25.3	36.4	39.6	49.1	9.5
87.5°	1.6	1.6	12.7	20.6	20.6	7.9	12.7	15.8	19.0	26.9	3.2
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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	540.1	535.3	530.6	524.2	519.5	510.0	505.2	498.9	497.3	494.1	492.5
5°	552.7	544.8	533.7	517.9	508.4	494.1	484.6	475.1	473.5	470.4	468.8
7.5°	570.2	562.2	548.0	530.6	514.7	500.5	489.4	475.1	460.9	449.8	449.8
10°	598.7	589.2	570.2	554.3	535.3	505.2	453.0	405.4	375.4	356.3	350.0
12.5°	633.5	620.8	600.2	581.2	544.8	449.8	369.0	307.2	256.6	232.8	228.1
15°	669.9	658.8	638.3	609.7	500.5	375.4	269.2	174.2	125.1	102.9	106.1
17.5°	709.5	693.7	669.9	612.9	440.3	280.3	144.1	88.7	76.0	72.9	72.9
20°	750.7	730.1	706.4	578.1	362.7	161.5	82.4	66.5	61.8	57.0	58.6
22.5°	795.0	769.7	733.3	525.8	259.7	87.1	63.4	53.8	47.5	45.9	45.9
25°	842.6	806.1	760.2	465.6	150.5	66.5	52.3	42.8	38.0	36.4	34.8
27.5°	893.2	847.3	766.5	386.4	85.5	55.4	41.2	33.3	28.5	26.9	26.9
30°	939.2	888.5	752.3	286.7	64.9	45.9	33.3	25.3	22.2	22.2	22.2
32.5°	1000.9	934.4	707.9	179.0	52.3	36.4	25.3	20.6	17.4	17.4	17.4
35°	1081.7	1002.5	663.6	95.0	42.8	30.1	20.6	15.8	14.3	14.3	14.3
37.5°	1192.6	1092.8	624.0	60.2	34.8	23.8	15.8	12.7	11.1	11.1	11.1
40°	1306.6	1200.5	568.6	45.9	28.5	19.0	12.7	9.5	7.9	7.9	9.5
42.5°	1449.1	1325.6	505.2	39.6	23.8	15.8	9.5	6.3	4.8	6.3	6.3
45°	1593.3	1457.1	416.5	33.3	20.6	12.7	6.3	3.2	3.2	4.8	4.8
47.5°	1742.1	1596.4	323.1	28.5	17.4	9.5	4.8	1.6	1.6	3.2	3.2
50°	1895.8	1734.2	240.7	25.3	14.3	7.9	3.2	1.6	0.0	1.6	1.6
52.5°	2049.4	1867.3	186.9	22.2	12.7	6.3	1.6	0.0	0.0	0.0	1.6
55°	2191.9	1987.6	148.9	19.0	11.1	4.8	1.6	0.0	0.0	0.0	0.0
57.5°	2312.3	2076.3	118.8	17.4	9.5	3.2	1.6	0.0	0.0	0.0	0.0
60°	2426.3	2146.0	91.9	14.3	7.9	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2507.1	2172.9	74.4	12.7	6.3	3.2	0.0	0.0	0.0	0.0	0.0
64°	2541.9	2176.1	64.9	11.1	6.3	3.2	1.6	0.0	0.0	0.0	0.0
65°	2562.5	2166.6	60.2	11.1	6.3	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2567.3	2114.3	45.9	9.5	4.8	1.6	1.6	0.0	0.0	0.0	0.0
70°	2427.9	1932.2	33.3	6.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2028.8	1476.1	22.2	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1267.0	638.3	12.7	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	524.2	193.2	7.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
80°	120.4	45.9	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.5	7.9	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	1.6	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)