

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: P594920

Luminaire Tested: **ISS-PA1F-830-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594920
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-830-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 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: 7703 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

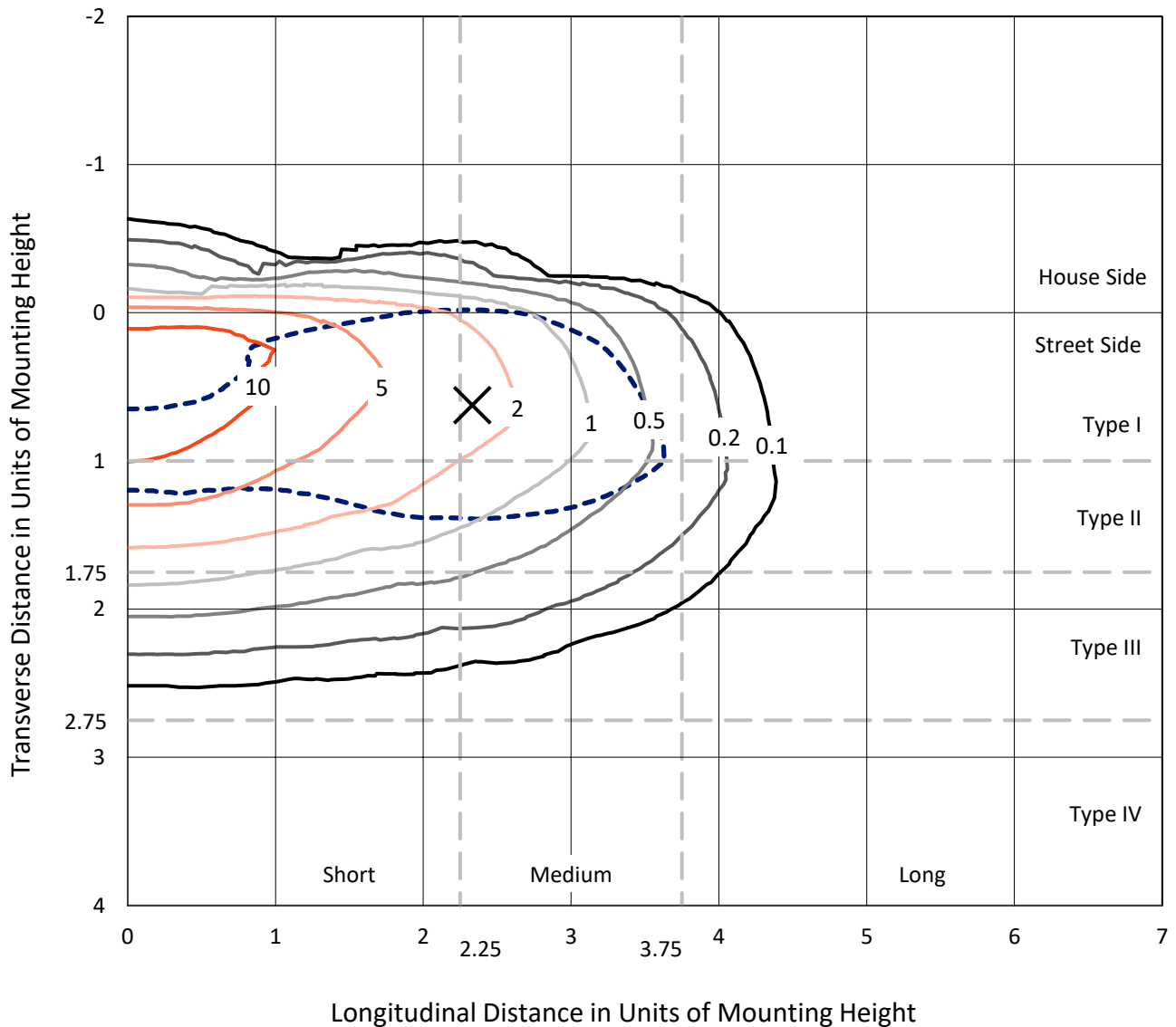
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

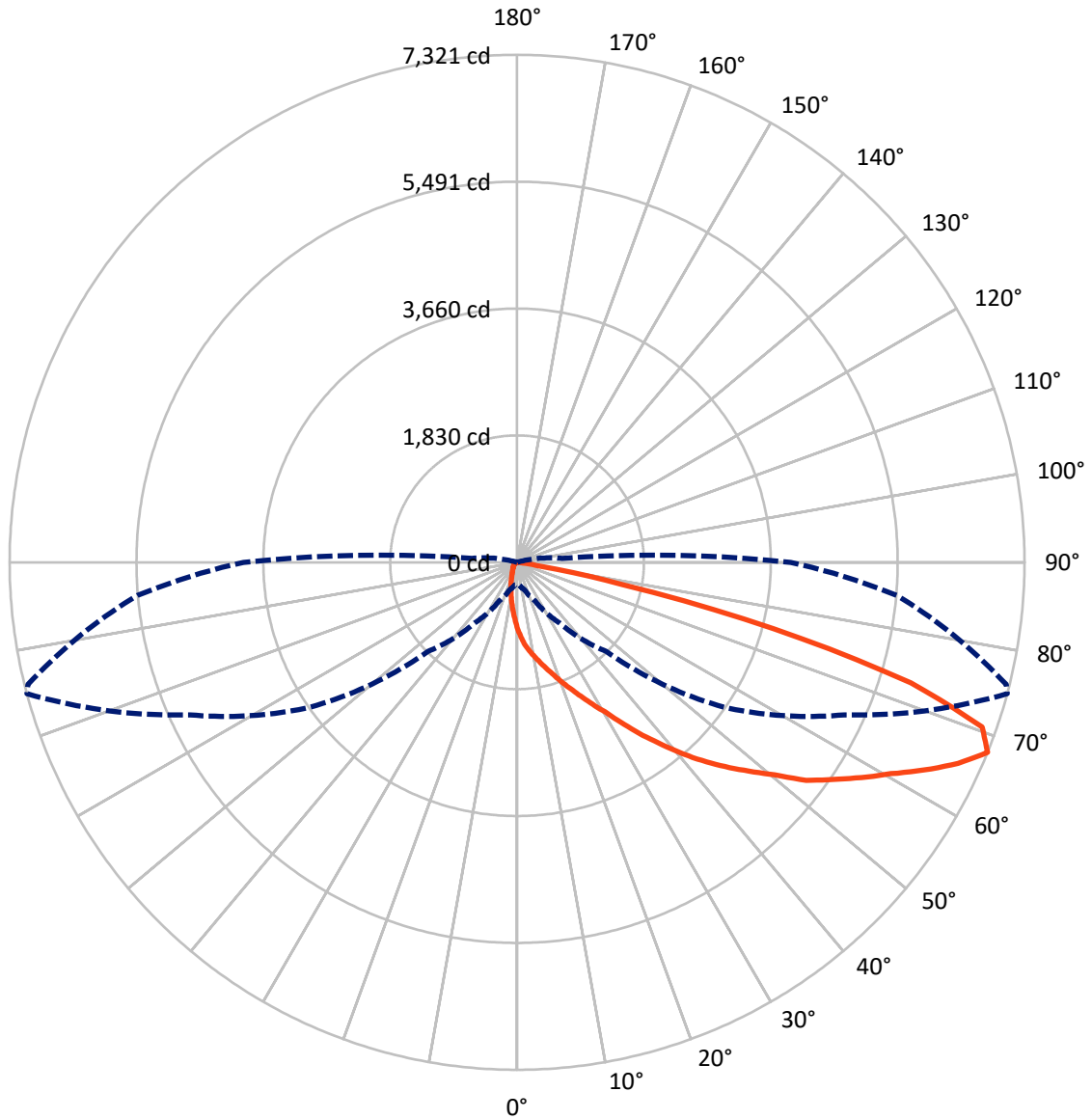
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.1 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
House Side	Lumens	388.3	0.0	388.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7314.7	0.0	7314.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	7703.0	0.0	7703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.1
10°-20°	278.6	3.6
20°-30°	560.1	7.3
30°-40°	1059.4	13.8
40°-50°	1584.9	20.6
50°-60°	1829.8	23.8
60°-70°	1622.0	21.1
70°-80°	655.6	8.5
80°-90°	26.1	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°	7703.0	100.0
0°-180°	7703.0	100.0

Coefficient of Utilization

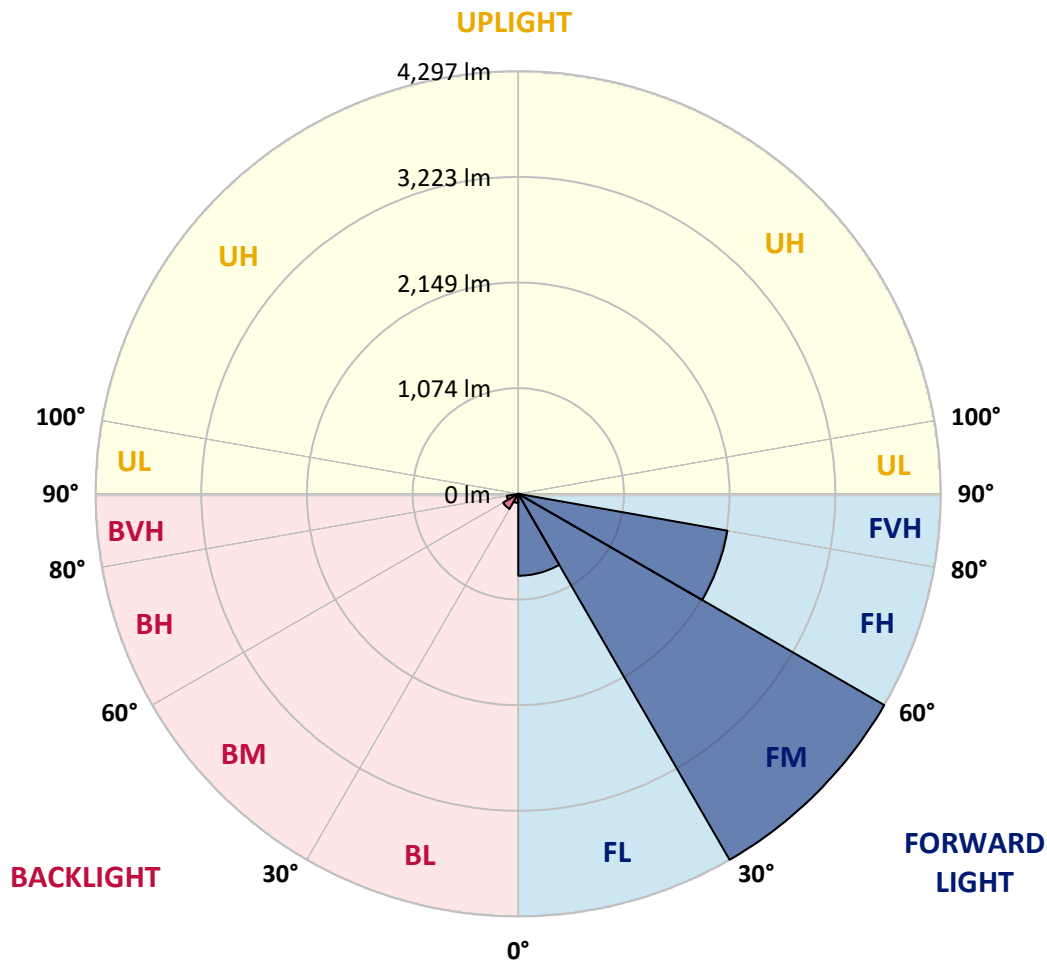


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.8	10.8			
FM (30°-60°)	4297.0	55.8			
FH (60°-80°)	2159.8	28.0			G2/5000
FVH (80°-90°)	25.0	0.3			G1/100
BL (0°-30°)	92.3	1.2	B0/110		
BM (30°-60°)	177.1	2.3	B0/220		
BH (60°-80°)	117.7	1.5	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3
2.5°	1331.9	1336.5	1327.3	1306.5	1288.0	1244.0	1209.3	1146.9	1079.9	1079.9	998.9
5°	1489.1	1484.5	1479.9	1463.7	1449.8	1412.8	1366.6	1299.5	1195.5	1186.2	1052.1
7.5°	1565.4	1560.8	1551.6	1544.6	1544.6	1519.2	1475.3	1405.9	1290.3	1281.0	1100.7
10°	1655.6	1646.4	1646.4	1627.9	1623.2	1593.2	1570.1	1509.9	1382.8	1371.2	1156.2
12.5°	1762.0	1752.7	1755.1	1738.9	1731.9	1699.6	1667.2	1609.4	1482.2	1470.6	1220.9
15°	1822.1	1817.5	1831.4	1833.7	1838.3	1810.5	1780.5	1720.4	1593.2	1577.0	1297.2
17.5°	1856.8	1856.8	1873.0	1903.0	1937.7	1921.5	1898.4	1849.9	1706.5	1697.2	1378.1
20°	1923.9	1916.9	1944.7	1972.4	2016.3	2030.2	2023.3	1986.3	1842.9	1815.2	1466.0
22.5°	2034.8	2025.6	2051.0	2085.7	2138.9	2143.5	2148.1	2129.6	1981.7	1953.9	1558.5
25°	2296.1	2273.0	2249.9	2245.3	2266.1	2284.6	2270.7	2284.6	2138.9	2113.5	1657.9
27.5°	2804.8	2765.5	2654.5	2532.0	2446.4	2462.6	2418.7	2444.1	2319.3	2286.9	1750.4
30°	3292.7	3253.4	3163.3	2945.9	2749.4	2661.5	2596.7	2587.5	2504.2	2467.2	1856.8
32.5°	3632.7	3607.2	3547.1	3401.4	3156.3	2932.0	2807.2	2763.2	2751.7	2693.9	1993.2
35°	3863.9	3840.8	3799.1	3681.2	3500.9	3251.1	3036.1	2939.0	3026.8	2957.5	2148.1
37.5°	4002.6	3986.4	3940.2	3859.3	3762.1	3598.0	3320.5	3165.6	3304.3	3239.6	2347.0
40°	4104.4	4062.7	4030.4	3967.9	3935.6	3882.4	3644.2	3401.4	3604.9	3537.9	2543.6
42.5°	4113.6	4095.1	4069.7	4032.7	4037.3	4072.0	3988.8	3674.3	3907.8	3845.4	2751.7
45°	4111.3	4092.8	4074.3	4037.3	4060.4	4189.9	4266.2	3961.0	4203.8	4139.1	2971.3
47.5°	4044.3	4030.4	4035.0	4035.0	4065.1	4240.8	4481.3	4252.4	4499.8	4437.3	3237.3
50°	3808.4	3822.3	3914.8	3963.3	4016.5	4243.1	4631.6	4557.6	4818.9	4774.9	3493.9
52.5°	3061.5	3140.1	3514.7	3771.4	3926.3	4196.9	4728.7	4879.0	5223.5	5156.5	3785.3
55°	2340.1	2344.7	2705.4	3302.0	3748.3	4113.6	4784.2	5096.4	5531.1	5494.1	4041.9
57.5°	1898.4	1896.1	2074.2	2610.6	3285.8	3981.8	4798.1	5255.9	5857.1	5787.7	4337.9
60°	1551.6	1542.3	1648.7	1979.3	2684.6	3672.0	4747.2	5385.4	6192.4	6167.0	4647.8
62.5°	1121.5	1130.7	1271.8	1528.4	2069.5	3100.8	4638.5	5424.7	6597.1	6571.6	4994.6
65°	645.1	672.9	827.8	1100.7	1586.3	2425.6	4328.7	5394.6	6992.5	6990.1	5316.0
67.5°	323.7	326.0	409.3	615.1	1066.0	1815.2	3644.2	5205.0	7320.8	7269.9	5501.0
70°	208.1	212.7	240.5	316.8	589.6	1257.9	2784.0	4668.6	7115.0	7096.5	5230.5
72.5°	159.6	164.2	187.3	208.1	307.5	714.5	1884.5	3628.0	5940.4	5889.5	4078.9
75°	124.9	127.2	150.3	168.8	205.8	335.3	945.7	2261.5	3826.9	3695.1	2321.6
77.5°	99.4	101.7	113.3	134.1	157.2	187.3	279.8	1017.4	1556.2	1389.7	753.8
80°	64.7	67.1	85.6	104.1	134.1	122.6	108.7	293.7	333.0	300.6	134.1
82.5°	37.0	39.3	57.8	83.2	101.7	69.4	62.4	85.6	78.6	76.3	41.6
85°	11.6	11.6	39.3	57.8	46.2	20.8	39.3	30.1	25.4	23.1	13.9
87.5°	2.3	2.3	18.5	20.8	6.9	2.3	4.6	6.9	9.2	11.6	6.9
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°	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3	957.3
2.5°	959.6	913.4	827.8	753.8	682.1	619.7	575.8	536.5	508.7	501.8	490.2
5°	966.6	876.4	712.2	573.5	453.2	356.1	300.6	263.6	245.1	233.5	233.5
7.5°	973.5	839.4	603.5	418.5	286.7	217.4	182.7	166.5	159.6	157.2	154.9
10°	987.4	811.6	511.0	300.6	196.5	164.2	150.3	143.4	138.7	136.4	136.4
12.5°	1010.5	788.5	425.5	222.0	161.9	145.7	136.4	127.2	122.6	120.2	120.2
15°	1040.5	772.3	351.5	178.0	148.0	131.8	120.2	111.0	104.1	101.7	101.7
17.5°	1082.2	760.8	289.0	157.2	136.4	117.9	104.1	94.8	87.9	85.6	85.6
20°	1123.8	760.8	238.2	145.7	124.9	104.1	90.2	78.6	71.7	69.4	69.4
22.5°	1179.3	758.4	198.9	134.1	111.0	90.2	76.3	62.4	57.8	55.5	55.5
25°	1225.5	758.4	171.1	122.6	97.1	78.6	62.4	50.9	46.2	43.9	43.9
27.5°	1281.0	751.5	145.7	108.7	83.2	64.7	50.9	41.6	37.0	34.7	34.7
30°	1329.6	742.3	129.5	97.1	71.7	53.2	41.6	32.4	30.1	30.1	30.1
32.5°	1410.5	735.3	115.6	83.2	60.1	43.9	32.4	25.4	23.1	23.1	23.1
35°	1507.6	735.3	106.4	71.7	50.9	37.0	25.4	20.8	18.5	18.5	18.5
37.5°	1634.8	742.3	94.8	62.4	41.6	30.1	20.8	16.2	13.9	13.9	13.9
40°	1768.9	758.4	85.6	55.5	37.0	23.1	16.2	11.6	9.2	11.6	11.6
42.5°	1928.5	774.6	76.3	48.6	30.1	18.5	11.6	6.9	4.6	6.9	6.9
45°	2085.7	790.8	71.7	41.6	25.4	13.9	6.9	4.6	2.3	4.6	4.6
47.5°	2279.9	830.1	67.1	37.0	20.8	11.6	4.6	2.3	0.0	2.3	2.3
50°	2504.2	874.1	60.1	30.1	16.2	9.2	4.6	0.0	0.0	0.0	0.0
52.5°	2719.3	911.1	53.2	25.4	13.9	6.9	2.3	0.0	0.0	0.0	0.0
55°	2934.3	934.2	46.2	20.8	11.6	6.9	2.3	0.0	0.0	0.0	0.0
57.5°	3165.6	948.1	41.6	18.5	9.2	4.6	2.3	0.0	0.0	0.0	0.0
60°	3422.2	948.1	34.7	16.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0
62.5°	3706.7	920.3	32.4	13.9	6.9	4.6	2.3	0.0	0.0	0.0	0.0
65°	3937.9	820.9	27.7	11.6	6.9	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	3947.1	649.8	25.4	9.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0
70°	3519.4	444.0	20.8	6.9	4.6	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	2633.7	238.2	18.5	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
75°	1419.8	92.5	11.6	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
77.5°	413.9	46.2	6.9	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0
80°	76.3	23.1	4.6	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	9.2	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.2	4.6	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	2.3	2.3	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)