

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: P594344

Luminaire Tested: **ISC-PA1E-830-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594344  
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: ISC-PA1E-830-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA 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: 7028 lumens  
Efficiency: N/A  
Efficacy: 85.3 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

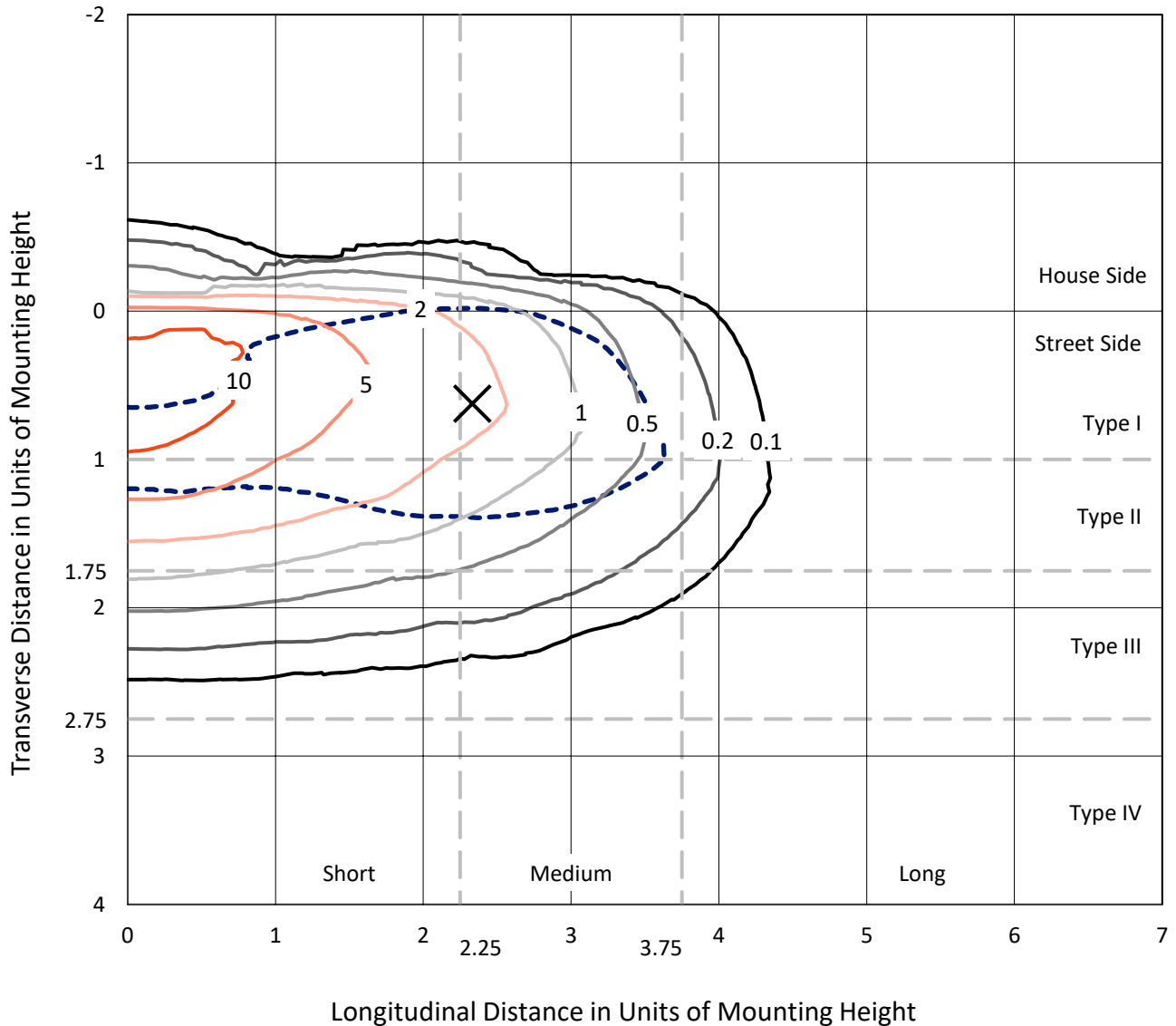
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

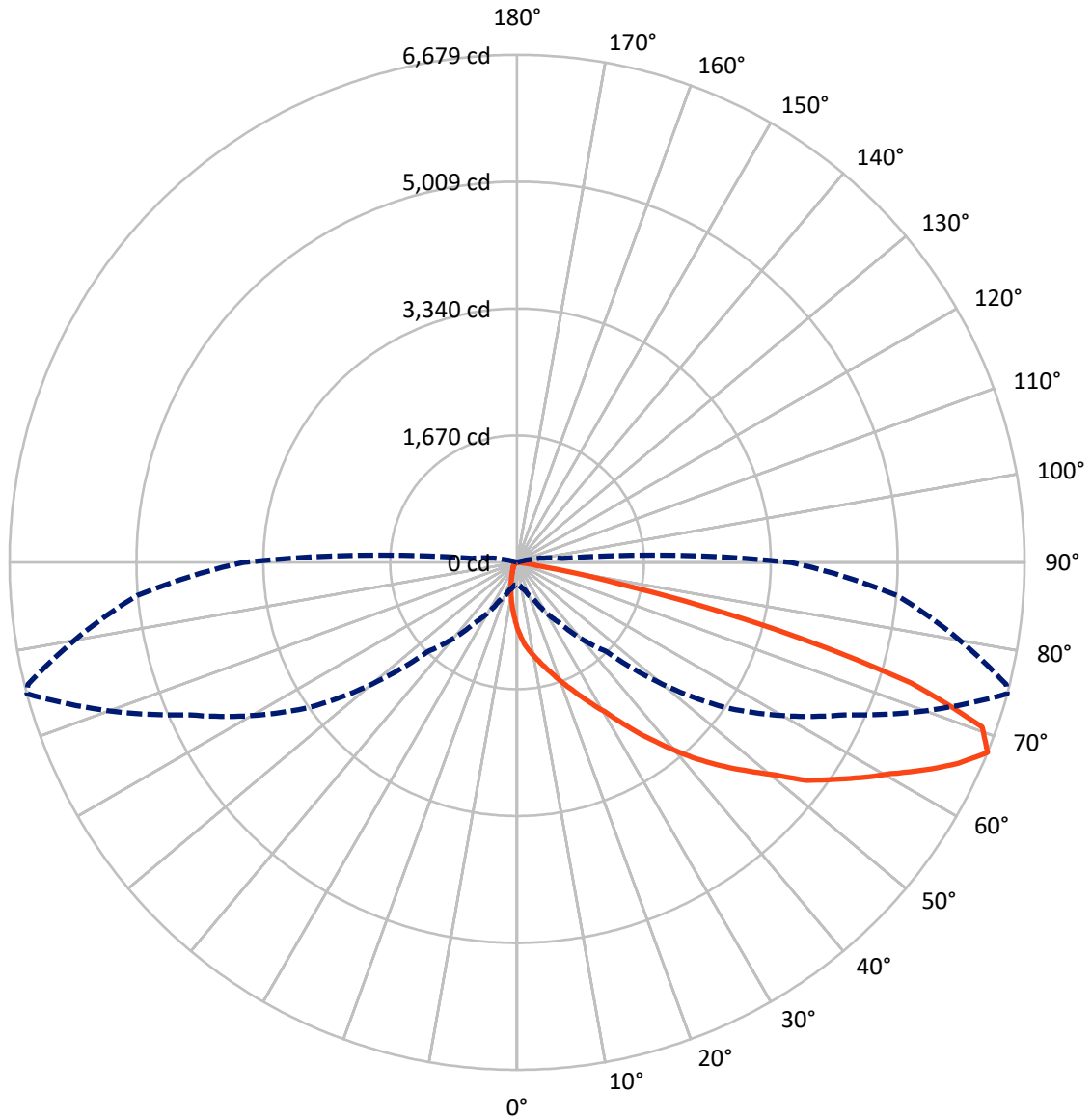
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.8 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	354.3	0.0	354.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6673.7	0.0	6673.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	7028.0	0.0	7028.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	1.1
10°-20°	254.2	3.6
20°-30°	511.0	7.3
30°-40°	966.6	13.8
40°-50°	1446.0	20.6
50°-60°	1669.5	23.8
60°-70°	1479.9	21.1
70°-80°	598.1	8.5
80°-90°	23.9	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°	7028.0	100.0
0°-180°	7028.0	100.0

**Coefficient of Utilization**



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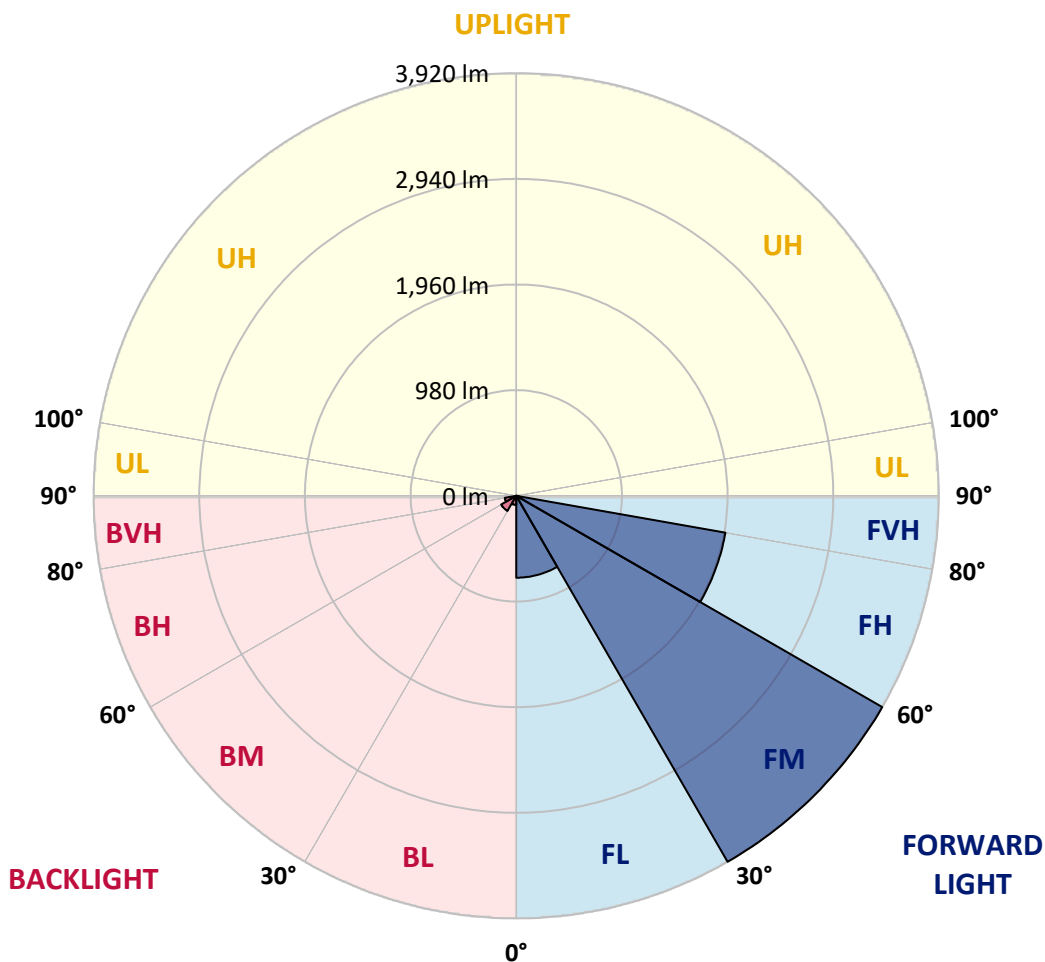
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.8	10.8			
FM (30°-60°)	3920.5	55.8			
FH (60°-80°)	1970.6	28.0			G2/5000
FVH (80°-90°)	22.8	0.3			G1/100
BL (0°-30°)	84.2	1.2	B0/110		
BM (30°-60°)	161.6	2.3	B0/220		
BH (60°-80°)	107.4	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°	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4
2.5°	1215.2	1219.4	1211.0	1192.0	1175.1	1135.0	1103.4	1046.4	985.2	985.2	911.4
5°	1358.6	1354.4	1350.2	1335.4	1322.8	1289.0	1246.8	1185.6	1090.7	1082.3	959.9
7.5°	1428.3	1424.0	1415.6	1409.3	1409.3	1386.1	1346.0	1282.7	1177.2	1168.8	1004.2
10°	1510.5	1502.1	1502.1	1485.2	1481.0	1453.6	1432.5	1377.6	1261.6	1251.1	1054.8
12.5°	1607.6	1599.2	1601.3	1586.5	1580.2	1550.6	1521.1	1468.3	1352.3	1341.8	1113.9
15°	1662.4	1658.2	1670.9	1673.0	1677.2	1651.9	1624.5	1569.6	1453.6	1438.8	1183.5
17.5°	1694.1	1694.1	1708.9	1736.3	1767.9	1753.2	1732.1	1687.8	1557.0	1548.5	1257.4
20°	1755.3	1748.9	1774.3	1799.6	1839.7	1852.3	1846.0	1812.2	1681.4	1656.1	1337.5
22.5°	1856.5	1848.1	1871.3	1902.9	1951.5	1955.7	1959.9	1943.0	1808.0	1782.7	1421.9
25°	2094.9	2073.8	2052.7	2048.5	2067.5	2084.4	2071.7	2084.4	1951.5	1928.3	1512.7
27.5°	2559.1	2523.2	2421.9	2310.1	2232.1	2246.8	2206.7	2229.9	2116.0	2086.5	1597.0
30°	3004.2	2968.3	2886.1	2687.8	2508.4	2428.3	2369.2	2360.8	2284.8	2251.0	1694.1
32.5°	3314.3	3291.1	3236.3	3103.4	2879.7	2675.1	2561.2	2521.1	2510.5	2457.8	1818.6
35°	3525.3	3504.2	3466.2	3358.6	3194.1	2966.2	2770.0	2681.4	2761.6	2698.3	1959.9
37.5°	3651.9	3637.1	3594.9	3521.1	3432.5	3282.7	3029.5	2888.2	3014.8	2955.7	2141.3
40°	3744.7	3706.7	3677.2	3620.2	3590.7	3542.2	3324.9	3103.4	3289.0	3227.8	2320.7
42.5°	3753.2	3736.3	3713.1	3679.3	3683.5	3715.2	3639.2	3352.3	3565.4	3508.4	2510.5
45°	3751.0	3734.2	3717.3	3683.5	3704.6	3822.8	3892.4	3613.9	3835.4	3776.4	2711.0
47.5°	3689.9	3677.2	3681.4	3681.4	3708.8	3869.2	4088.6	3879.7	4105.5	4048.5	2953.6
50°	3474.7	3487.3	3571.7	3616.0	3664.5	3871.3	4225.7	4158.2	4396.6	4356.5	3187.8
52.5°	2793.2	2865.0	3206.7	3440.9	3582.3	3829.1	4314.3	4451.5	4765.8	4704.6	3453.6
55°	2135.0	2139.2	2468.3	3012.6	3419.8	3753.2	4365.0	4649.8	5046.4	5012.6	3687.8
57.5°	1732.1	1730.0	1892.4	2381.8	2997.9	3632.9	4377.6	4795.3	5343.9	5280.6	3957.8
60°	1415.6	1407.2	1504.2	1805.9	2449.4	3350.2	4331.2	4913.5	5649.8	5626.6	4240.5
62.5°	1023.2	1031.6	1160.3	1394.5	1888.2	2829.1	4232.1	4949.3	6019.0	5995.8	4556.9
65°	588.6	613.9	755.3	1004.2	1447.3	2213.1	3949.4	4921.9	6379.7	6377.6	4850.2
67.5°	295.4	297.5	373.4	561.2	972.6	1656.1	3324.9	4748.9	6679.3	6632.9	5019.0
70°	189.9	194.1	219.4	289.0	538.0	1147.7	2540.1	4259.5	6491.5	6474.7	4772.1
72.5°	145.6	149.8	170.9	189.9	280.6	651.9	1719.4	3310.1	5419.8	5373.4	3721.5
75°	113.9	116.0	137.1	154.0	187.8	305.9	862.9	2063.3	3491.5	3371.3	2118.1
77.5°	90.7	92.8	103.4	122.4	143.5	170.9	255.3	928.3	1419.8	1267.9	687.8
80°	59.1	61.2	78.1	94.9	122.4	111.8	99.2	267.9	303.8	274.3	122.4
82.5°	33.8	35.9	52.7	75.9	92.8	63.3	57.0	78.1	71.7	69.6	38.0
85°	10.5	10.5	35.9	52.7	42.2	19.0	35.9	27.4	23.2	21.1	12.7
87.5°	2.1	2.1	16.9	19.0	6.3	2.1	4.2	6.3	8.4	10.5	6.3
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°	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4	873.4
2.5°	875.5	833.3	755.3	687.8	622.4	565.4	525.3	489.4	464.1	457.8	447.3
5°	881.9	799.6	649.8	523.2	413.5	324.9	274.3	240.5	223.6	213.1	213.1
7.5°	888.2	765.8	550.6	381.9	261.6	198.3	166.7	151.9	145.6	143.5	141.3
10°	900.8	740.5	466.2	274.3	179.3	149.8	137.1	130.8	126.6	124.5	124.5
12.5°	921.9	719.4	388.2	202.5	147.7	132.9	124.5	116.0	111.8	109.7	109.7
15°	949.4	704.6	320.7	162.4	135.0	120.3	109.7	101.3	94.9	92.8	92.8
17.5°	987.3	694.1	263.7	143.5	124.5	107.6	94.9	86.5	80.2	78.1	78.1
20°	1025.3	694.1	217.3	132.9	113.9	94.9	82.3	71.7	65.4	63.3	63.3
22.5°	1075.9	692.0	181.4	122.4	101.3	82.3	69.6	57.0	52.7	50.6	50.6
25°	1118.1	692.0	156.1	111.8	88.6	71.7	57.0	46.4	42.2	40.1	40.1
27.5°	1168.8	685.7	132.9	99.2	75.9	59.1	46.4	38.0	33.8	31.6	31.6
30°	1213.1	677.2	118.1	88.6	65.4	48.5	38.0	29.5	27.4	27.4	27.4
32.5°	1286.9	670.9	105.5	75.9	54.9	40.1	29.5	23.2	21.1	21.1	21.1
35°	1375.5	670.9	97.0	65.4	46.4	33.8	23.2	19.0	16.9	16.9	16.9
37.5°	1491.6	677.2	86.5	57.0	38.0	27.4	19.0	14.8	12.7	12.7	12.7
40°	1613.9	692.0	78.1	50.6	33.8	21.1	14.8	10.5	8.4	10.5	10.5
42.5°	1759.5	706.7	69.6	44.3	27.4	16.9	10.5	6.3	4.2	6.3	6.3
45°	1902.9	721.5	65.4	38.0	23.2	12.7	6.3	4.2	2.1	4.2	4.2
47.5°	2080.2	757.4	61.2	33.8	19.0	10.5	4.2	2.1	0.0	2.1	2.1
50°	2284.8	797.5	54.9	27.4	14.8	8.4	4.2	0.0	0.0	0.0	0.0
52.5°	2481.0	831.2	48.5	23.2	12.7	6.3	2.1	0.0	0.0	0.0	0.0
55°	2677.2	852.3	42.2	19.0	10.5	6.3	2.1	0.0	0.0	0.0	0.0
57.5°	2888.2	865.0	38.0	16.9	8.4	4.2	2.1	0.0	0.0	0.0	0.0
60°	3122.4	865.0	31.6	14.8	6.3	4.2	2.1	0.0	0.0	0.0	0.0
62.5°	3381.8	839.7	29.5	12.7	6.3	4.2	2.1	0.0	0.0	0.0	0.0
65°	3592.8	748.9	25.3	10.5	6.3	4.2	2.1	0.0	0.0	0.0	0.0
67.5°	3601.3	592.8	23.2	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0
70°	3211.0	405.1	19.0	6.3	4.2	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	2402.9	217.3	16.9	6.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0
75°	1295.4	84.4	10.5	6.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0
77.5°	377.6	42.2	6.3	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
80°	69.6	21.1	4.2	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	8.4	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	8.4	4.2	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	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)