

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: P594254

Luminaire Tested: **ISC-PA1D-827-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594254  
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-PA1D-827-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 800mA 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: 5296 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

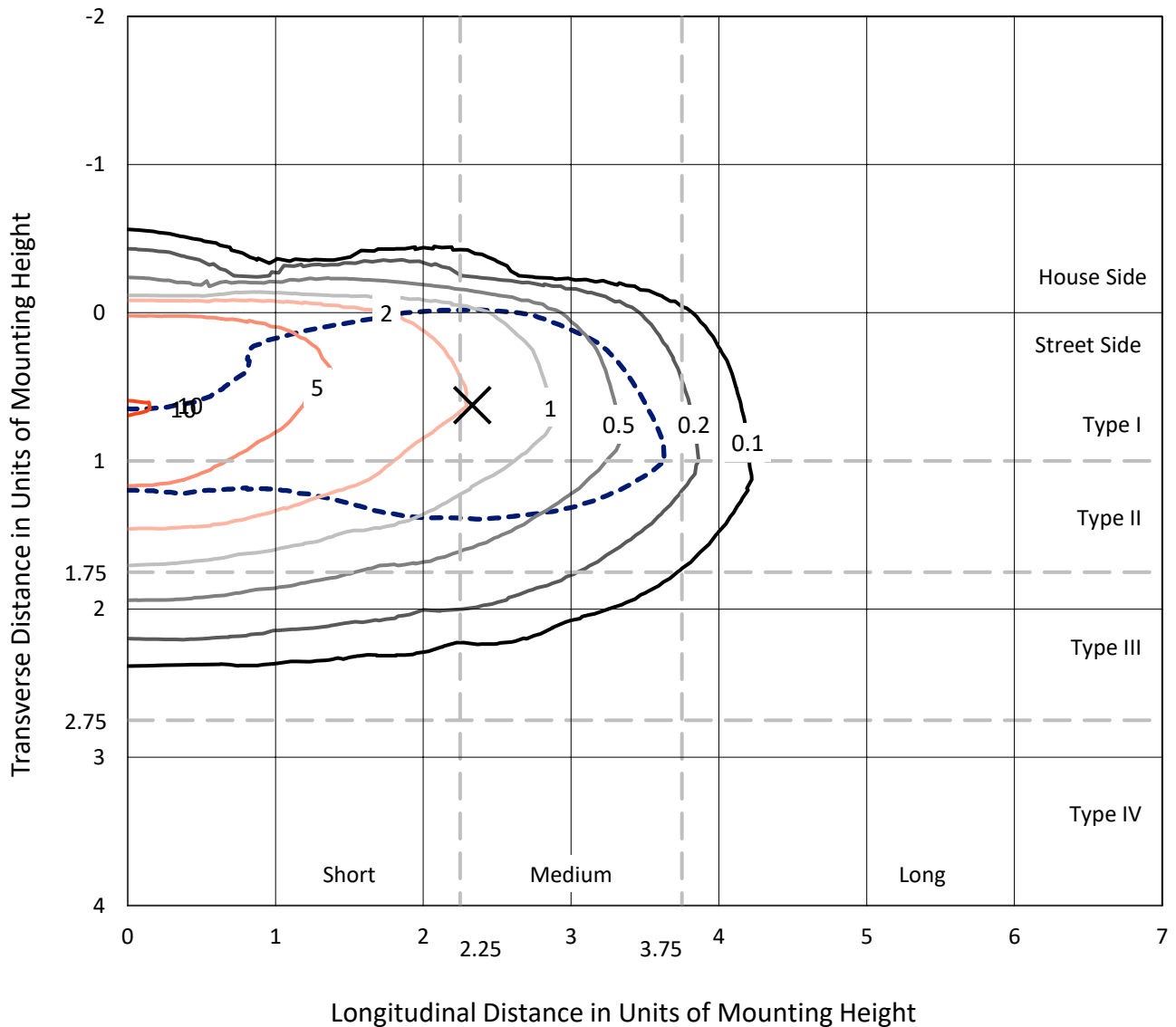
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

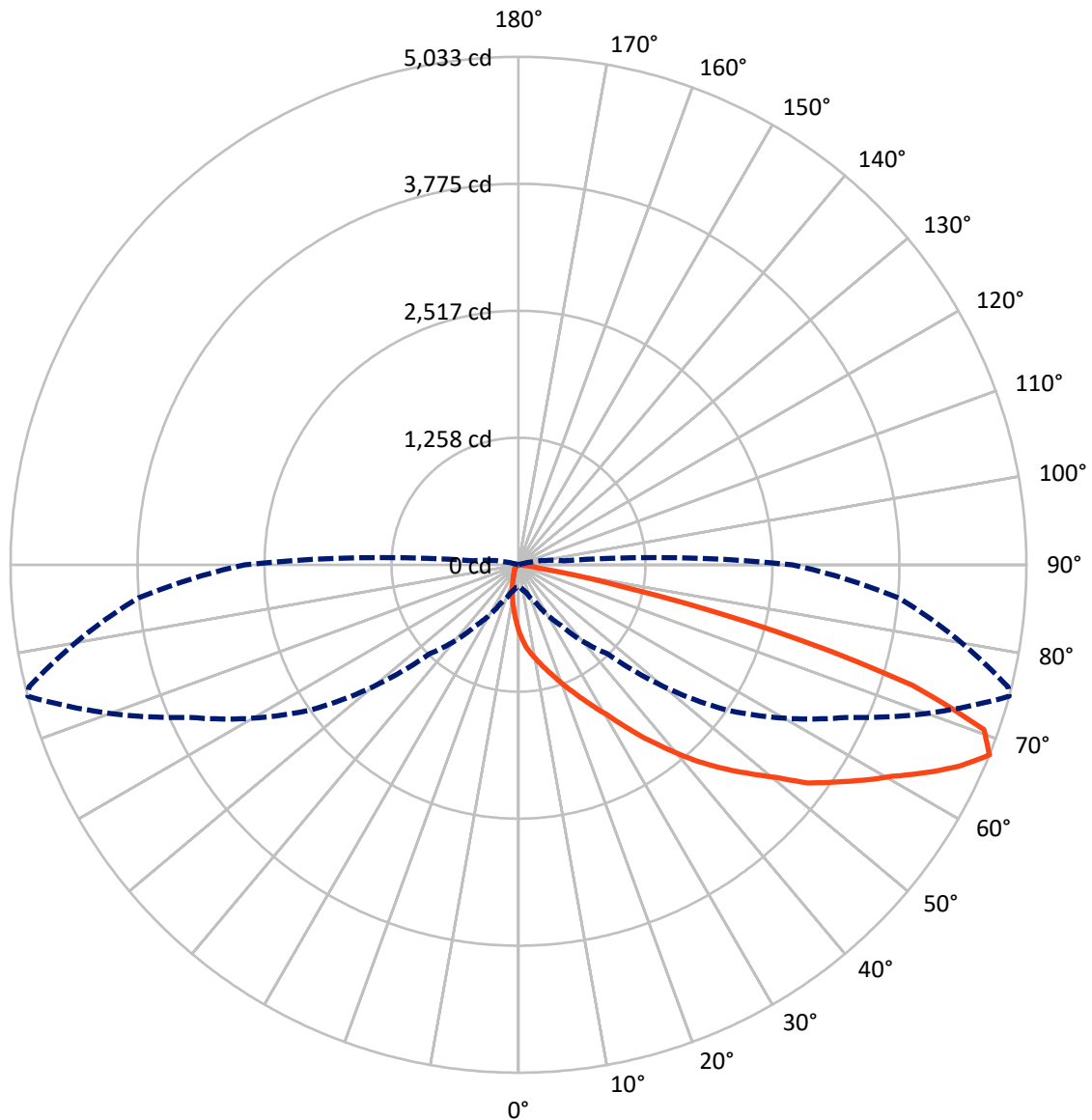
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.4 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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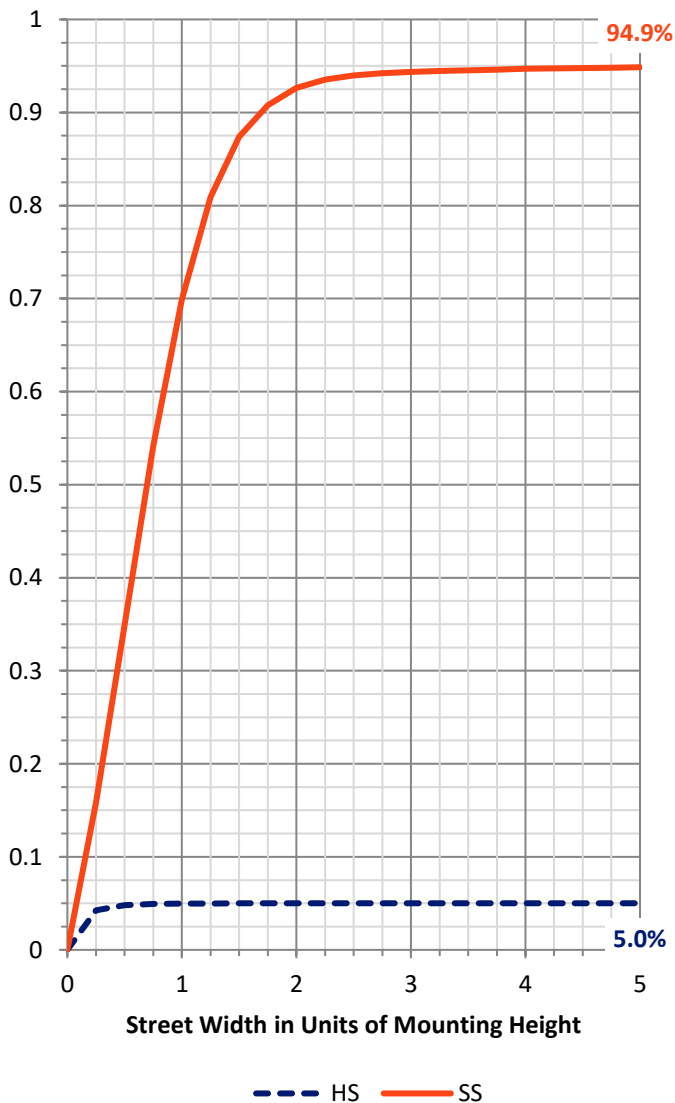
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	267.0	0.0	267.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5029.0	0.0	5029.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5296.0	0.0	5296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	1.1
10°-20°	191.6	3.6
20°-30°	385.1	7.3
30°-40°	728.4	13.8
40°-50°	1089.7	20.6
50°-60°	1258.1	23.8
60°-70°	1115.2	21.1
70°-80°	450.7	8.5
80°-90°	18.0	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°	5296.0	100.0
0°-180°	5296.0	100.0

**Coefficient of Utilization**

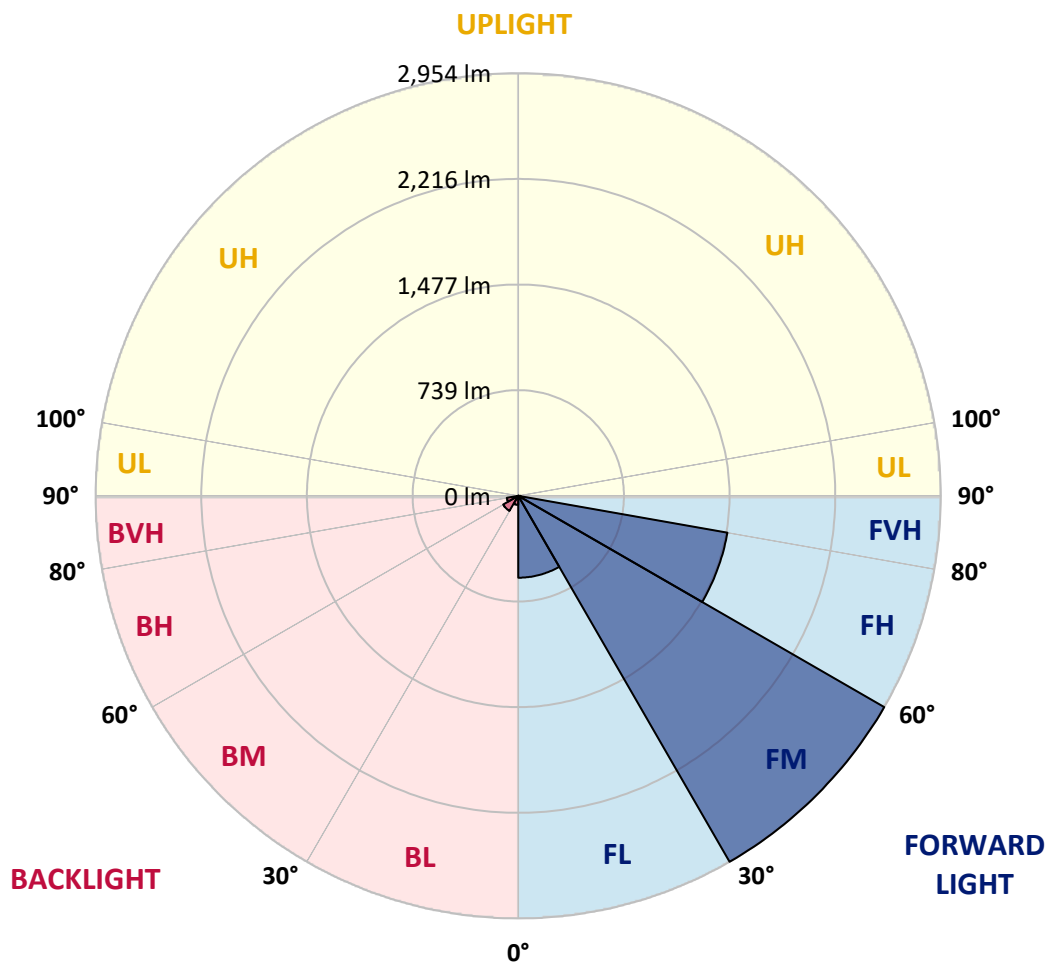


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.6	10.8			
FM (30°-60°)	2954.3	55.8			
FH (60°-80°)	1484.9	28.0			G1/1800
FVH (80°-90°)	17.2	0.3			G1/100
BL (0°-30°)	63.5	1.2	B0/110		
BM (30°-60°)	121.8	2.3	B0/220		
BH (60°-80°)	81.0	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2
2.5°	915.7	918.9	912.5	898.2	885.5	855.3	831.5	788.5	742.4	742.4	686.8
5°	1023.8	1020.6	1017.5	1006.3	996.8	971.4	939.6	893.5	821.9	815.6	723.3
7.5°	1076.3	1073.1	1066.7	1062.0	1062.0	1044.5	1014.3	966.6	887.1	880.7	756.7
10°	1138.3	1131.9	1131.9	1119.2	1116.0	1095.4	1079.5	1038.1	950.7	942.7	794.9
12.5°	1211.4	1205.1	1206.6	1195.5	1190.7	1168.5	1146.2	1106.5	1019.0	1011.1	839.4
15°	1252.7	1249.6	1259.1	1260.7	1263.9	1244.8	1224.1	1182.8	1095.4	1084.2	891.9
17.5°	1276.6	1276.6	1287.7	1308.4	1332.2	1321.1	1305.2	1271.8	1173.3	1166.9	947.5
20°	1322.7	1317.9	1337.0	1356.1	1386.3	1395.8	1391.1	1365.6	1267.1	1248.0	1007.9
22.5°	1399.0	1392.6	1410.1	1434.0	1470.5	1473.7	1476.9	1464.2	1362.4	1343.4	1071.5
25°	1578.6	1562.8	1546.9	1543.7	1558.0	1570.7	1561.2	1570.7	1470.5	1453.1	1139.9
27.5°	1928.4	1901.4	1825.1	1740.8	1682.0	1693.1	1662.9	1680.4	1594.5	1572.3	1203.5
30°	2263.8	2236.8	2174.8	2025.4	1890.2	1829.8	1785.3	1779.0	1721.7	1696.3	1276.6
32.5°	2497.5	2480.1	2438.7	2338.6	2170.0	2015.8	1930.0	1899.8	1891.8	1852.1	1370.4
35°	2656.5	2640.6	2612.0	2530.9	2406.9	2235.2	2087.4	2020.6	2081.0	2033.3	1476.9
37.5°	2751.9	2740.8	2709.0	2653.3	2586.6	2473.7	2282.9	2176.4	2271.8	2227.3	1613.6
40°	2821.9	2793.2	2771.0	2728.1	2705.8	2669.2	2505.5	2338.6	2478.5	2432.4	1748.8
42.5°	2828.2	2815.5	2798.0	2772.6	2775.8	2799.6	2742.4	2526.2	2686.7	2643.8	1891.8
45°	2826.6	2813.9	2801.2	2775.8	2791.6	2880.7	2933.1	2723.3	2890.2	2845.7	2042.9
47.5°	2780.5	2771.0	2774.2	2774.2	2794.8	2915.7	3081.0	2923.6	3093.7	3050.8	2225.7
50°	2618.4	2627.9	2691.5	2724.9	2761.4	2917.2	3184.3	3133.5	3313.1	3282.9	2402.2
52.5°	2104.9	2158.9	2416.5	2592.9	2699.4	2885.4	3251.1	3354.4	3591.3	3545.2	2602.5
55°	1608.9	1612.0	1860.0	2270.2	2577.0	2828.2	3289.2	3503.9	3802.7	3777.3	2778.9
57.5°	1305.2	1303.6	1426.0	1794.9	2259.1	2737.6	3298.8	3613.6	4026.9	3979.2	2982.4
60°	1066.7	1060.4	1133.5	1360.8	1845.7	2524.6	3263.8	3702.6	4257.4	4239.9	3195.5
62.5°	771.0	777.4	874.4	1050.8	1422.9	2131.9	3189.1	3729.6	4535.6	4518.1	3433.9
65°	443.5	462.6	569.1	756.7	1090.6	1667.7	2976.1	3709.0	4807.5	4805.9	3654.9
67.5°	222.6	224.2	281.4	422.9	732.9	1248.0	2505.5	3578.6	5033.2	4998.3	3782.1
70°	143.1	146.3	165.3	217.8	405.4	864.8	1914.1	3209.8	4891.7	4879.0	3596.1
72.5°	109.7	112.9	128.8	143.1	211.4	491.2	1295.7	2494.4	4084.1	4049.2	2804.4
75°	85.8	87.4	103.3	116.1	141.5	230.5	650.2	1554.8	2631.1	2540.5	1596.1
77.5°	68.4	70.0	77.9	92.2	108.1	128.8	192.4	699.5	1069.9	955.5	518.3
80°	44.5	46.1	58.8	71.5	92.2	84.3	74.7	201.9	228.9	206.7	92.2
82.5°	25.4	27.0	39.7	57.2	70.0	47.7	42.9	58.8	54.1	52.5	28.6
85°	7.9	7.9	27.0	39.7	31.8	14.3	27.0	20.7	17.5	15.9	9.5
87.5°	1.6	1.6	12.7	14.3	4.8	1.6	3.2	4.8	6.4	7.9	4.8
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°	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2
2.5°	659.8	628.0	569.1	518.3	469.0	426.1	395.9	368.8	349.8	345.0	337.0
5°	664.5	602.5	489.7	394.3	311.6	244.8	206.7	181.2	168.5	160.6	160.6
7.5°	669.3	577.1	414.9	287.7	197.1	149.4	125.6	114.5	109.7	108.1	106.5
10°	678.8	558.0	351.3	206.7	135.1	112.9	103.3	98.6	95.4	93.8	93.8
12.5°	694.7	542.1	292.5	152.6	111.3	100.2	93.8	87.4	84.3	82.7	82.7
15°	715.4	531.0	241.6	122.4	101.7	90.6	82.7	76.3	71.5	70.0	70.0
17.5°	744.0	523.0	198.7	108.1	93.8	81.1	71.5	65.2	60.4	58.8	58.8
20°	772.6	523.0	163.7	100.2	85.8	71.5	62.0	54.1	49.3	47.7	47.7
22.5°	810.8	521.4	136.7	92.2	76.3	62.0	52.5	42.9	39.7	38.2	38.2
25°	842.6	521.4	117.6	84.3	66.8	54.1	42.9	35.0	31.8	30.2	30.2
27.5°	880.7	516.7	100.2	74.7	57.2	44.5	35.0	28.6	25.4	23.8	23.8
30°	914.1	510.3	89.0	66.8	49.3	36.6	28.6	22.3	20.7	20.7	20.7
32.5°	969.8	505.5	79.5	57.2	41.3	30.2	22.3	17.5	15.9	15.9	15.9
35°	1036.5	505.5	73.1	49.3	35.0	25.4	17.5	14.3	12.7	12.7	12.7
37.5°	1124.0	510.3	65.2	42.9	28.6	20.7	14.3	11.1	9.5	9.5	9.5
40°	1216.2	521.4	58.8	38.2	25.4	15.9	11.1	7.9	6.4	7.9	7.9
42.5°	1325.9	532.6	52.5	33.4	20.7	12.7	7.9	4.8	3.2	4.8	4.8
45°	1434.0	543.7	49.3	28.6	17.5	9.5	4.8	3.2	1.6	3.2	3.2
47.5°	1567.5	570.7	46.1	25.4	14.3	7.9	3.2	1.6	0.0	1.6	1.6
50°	1721.7	600.9	41.3	20.7	11.1	6.4	3.2	0.0	0.0	0.0	0.0
52.5°	1869.6	626.4	36.6	17.5	9.5	4.8	1.6	0.0	0.0	0.0	0.0
55°	2017.4	642.3	31.8	14.3	7.9	4.8	1.6	0.0	0.0	0.0	0.0
57.5°	2176.4	651.8	28.6	12.7	6.4	3.2	1.6	0.0	0.0	0.0	0.0
60°	2352.9	651.8	23.8	11.1	4.8	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2548.4	632.7	22.3	9.5	4.8	3.2	1.6	0.0	0.0	0.0	0.0
65°	2707.4	564.4	19.1	7.9	4.8	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2713.7	446.7	17.5	6.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0
70°	2419.6	305.2	14.3	4.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	1810.8	163.7	12.7	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	976.1	63.6	7.9	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
77.5°	284.6	31.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
80°	52.5	15.9	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	6.4	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.4	3.2	1.6	1.6	1.6	1.6	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)