

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: P594337

Luminaire Tested: **ISC-PA1E-827-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594337  
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: ISC-PA1E-827-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA 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: 5656 lumens  
Efficiency: N/A  
Efficacy: 68.6 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

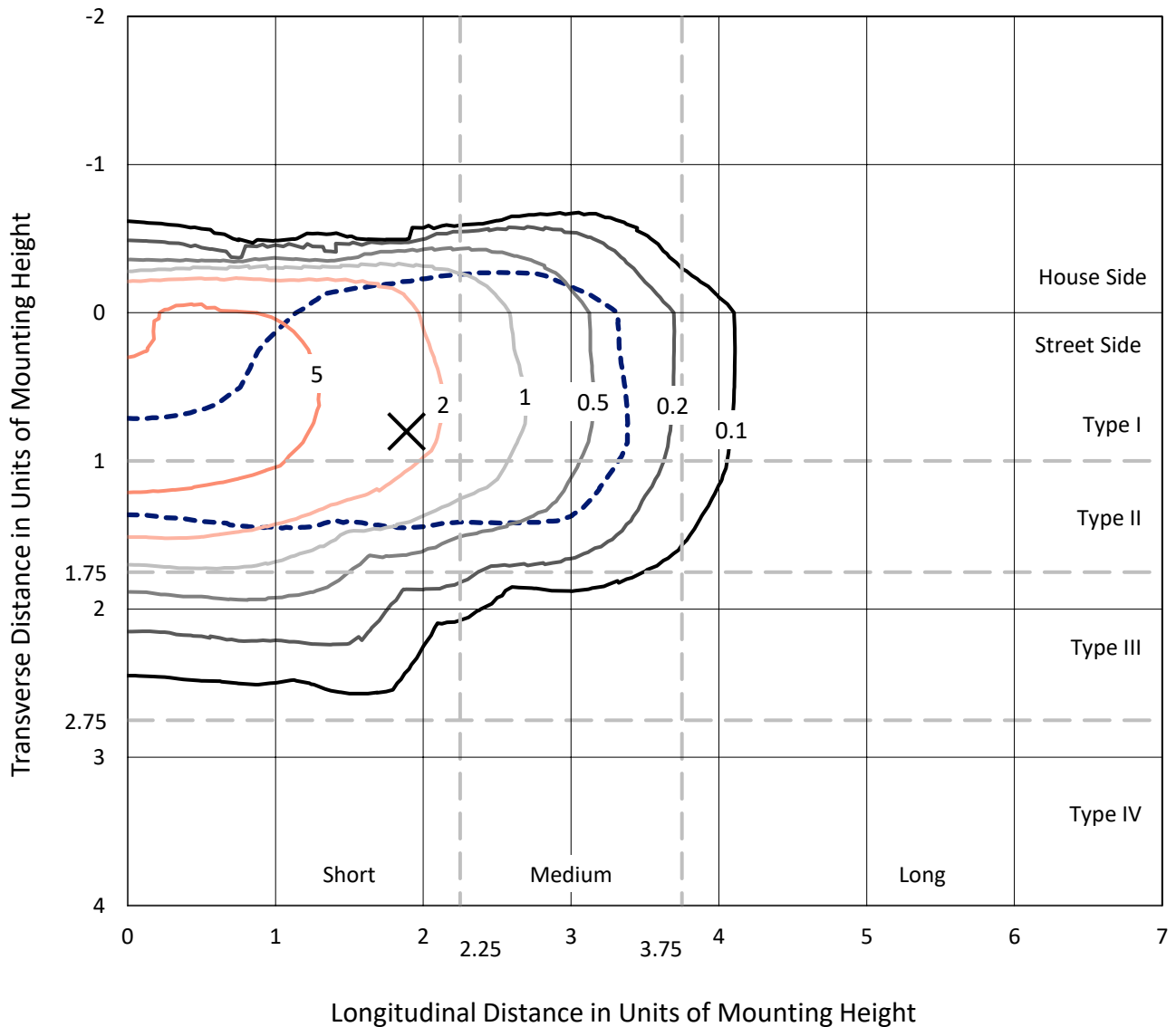
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

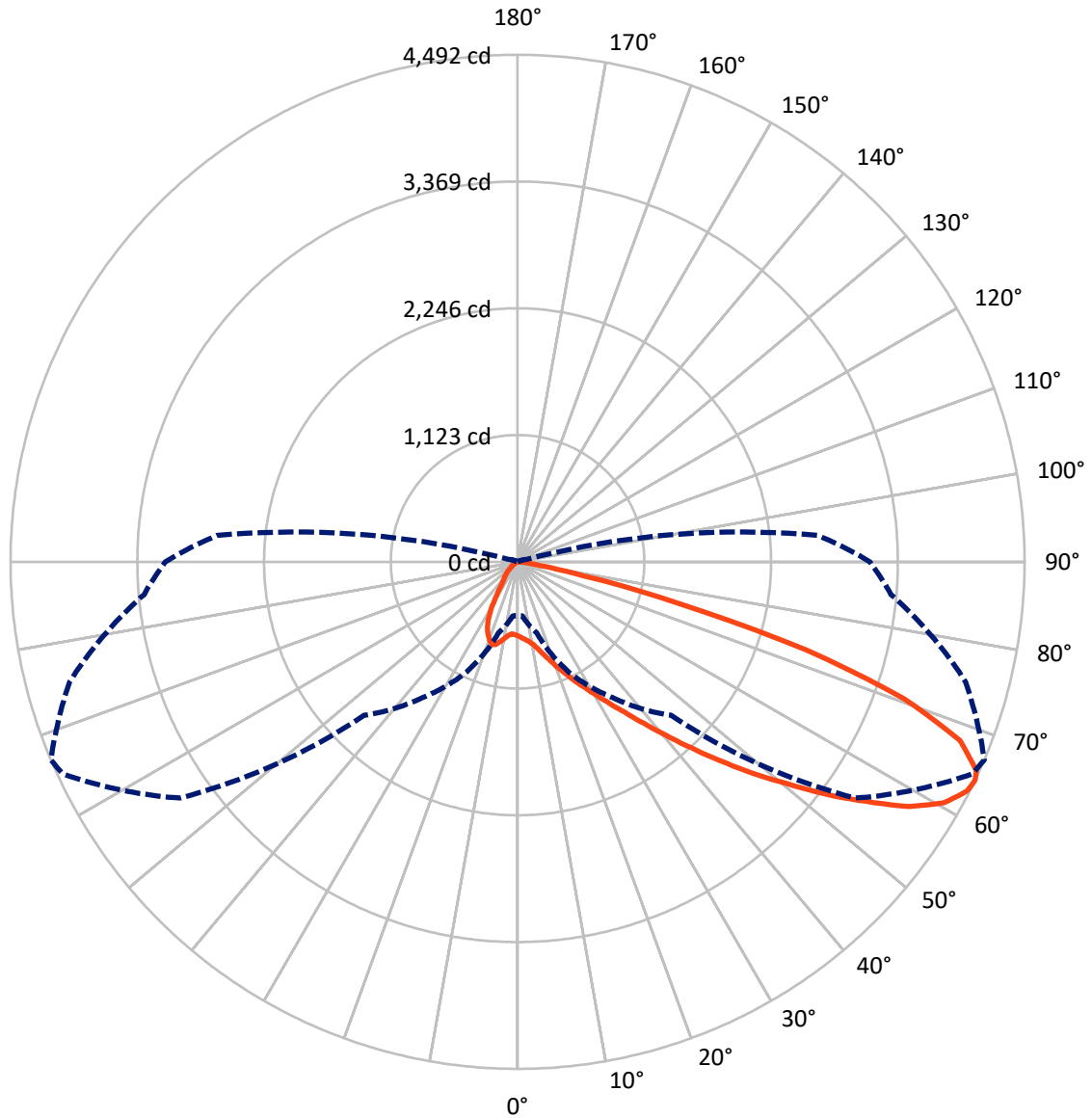
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.7 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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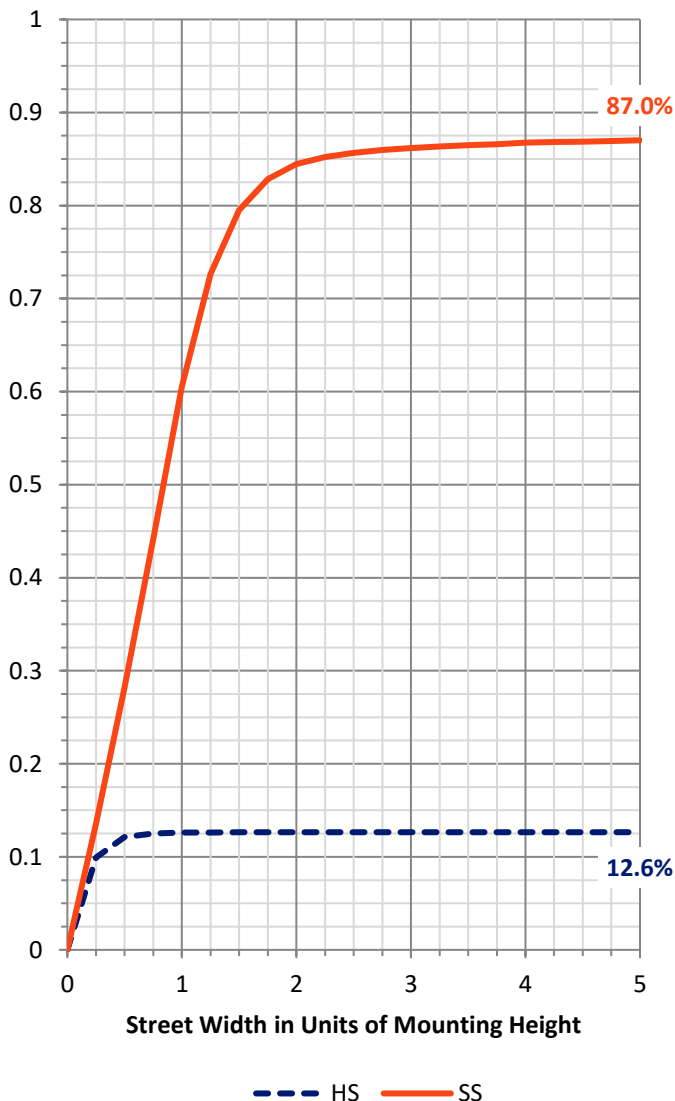
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	723.5	0.0	723.5
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4932.5	0.0	4932.5
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5656.0	0.0	5656.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	1.1
10°-20°	184.0	3.3
20°-30°	333.9	5.9
30°-40°	639.6	11.3
40°-50°	1178.7	20.8
50°-60°	1522.5	26.9
60°-70°	1247.0	22.0
70°-80°	458.4	8.1
80°-90°	29.6	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°	5656.0	100.0
0°-180°	5656.0	100.0

**Coefficient of Utilization**

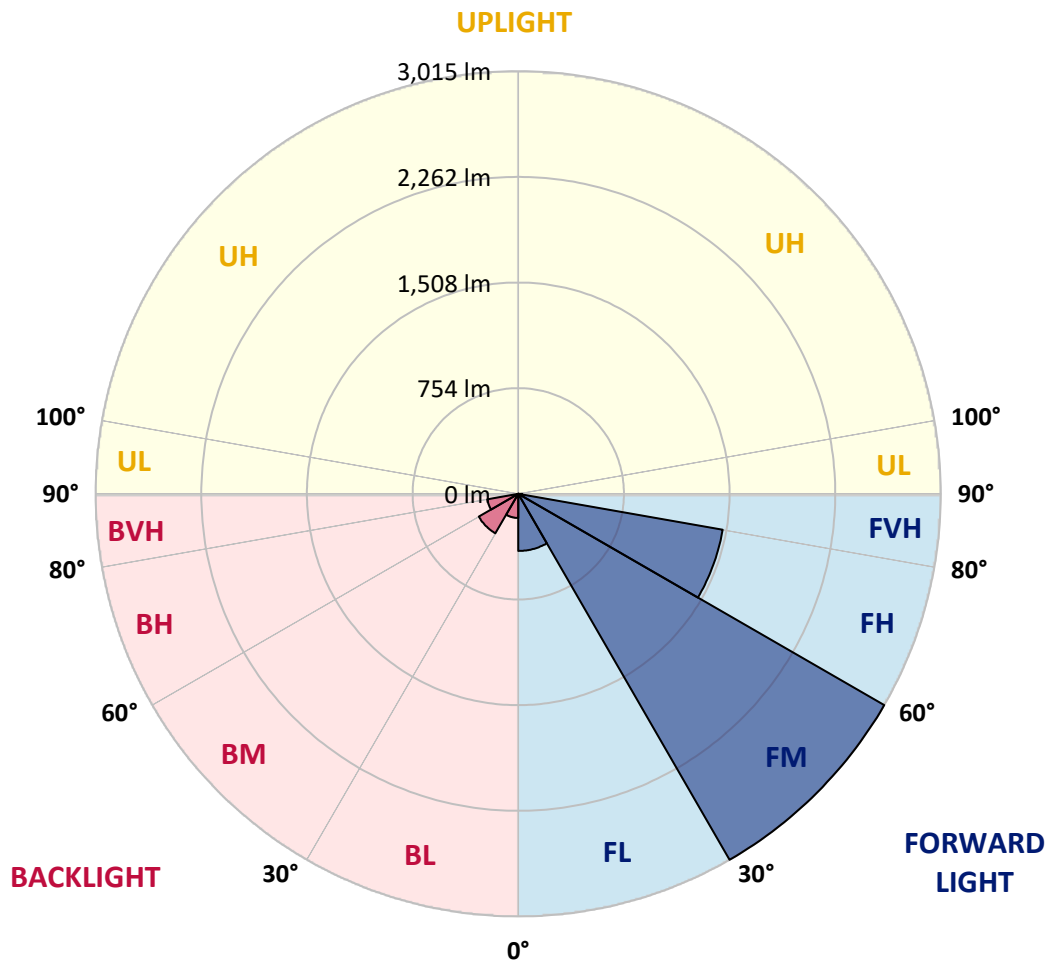


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.8	7.2			
FM (30°-60°)	3015.5	53.3			
FH (60°-80°)	1481.0	26.2			G1/1800
FVH (80°-90°)	28.2	0.5			G1/100
BL (0°-30°)	172.4	3.0	B1/500		
BM (30°-60°)	325.3	5.8	B1/1000		
BH (60°-80°)	224.5	4.0	B1/500		G1/500
BVH (80°-90°)	1.3	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	680.5	680.5	684.4	682.5	682.5	678.6	672.8	674.7	672.8	670.8	665.0
5°	668.9	670.8	672.8	676.6	684.4	688.3	688.3	690.3	690.3	688.3	680.5
7.5°	663.0	666.9	670.8	674.7	684.4	690.3	700.0	711.6	711.6	713.6	705.8
10°	684.4	688.3	694.1	700.0	709.7	719.4	727.2	740.8	740.8	744.7	742.8
12.5°	729.1	729.1	731.1	735.0	748.6	760.3	773.9	785.5	787.5	789.4	783.6
15°	783.6	783.6	785.5	785.5	793.3	810.8	836.1	847.7	845.8	843.9	832.2
17.5°	845.8	845.8	845.8	847.7	851.6	861.4	890.5	913.9	911.9	910.0	886.6
20°	904.1	908.0	911.9	913.9	917.7	925.5	956.6	983.9	989.7	981.9	941.1
22.5°	970.2	972.2	974.1	980.0	989.7	993.6	1024.7	1065.5	1071.4	1061.6	1007.2
25°	1036.4	1040.2	1046.1	1053.9	1063.6	1083.0	1104.4	1158.8	1164.7	1153.0	1079.1
27.5°	1182.2	1180.2	1162.7	1149.1	1151.1	1164.7	1193.8	1252.2	1258.0	1246.3	1151.1
30°	1431.1	1407.7	1374.7	1314.4	1256.1	1261.9	1302.7	1359.1	1368.8	1353.3	1230.8
32.5°	1784.9	1761.6	1679.9	1547.7	1419.4	1376.6	1429.1	1483.6	1495.2	1477.7	1324.1
35°	2129.1	2123.3	2045.5	1886.0	1668.3	1549.7	1563.3	1633.3	1637.2	1615.8	1440.8
37.5°	2554.9	2533.5	2426.6	2247.7	1991.0	1779.1	1740.2	1806.3	1816.0	1790.8	1582.7
40°	2836.8	2829.1	2764.9	2638.5	2362.4	2096.0	1956.0	2020.2	2018.3	1981.3	1746.1
42.5°	3000.2	3004.1	3000.2	2939.9	2782.4	2477.1	2241.9	2245.8	2251.6	2212.7	1934.7
45°	3111.0	3111.0	3116.8	3165.4	3105.2	2932.1	2589.9	2502.4	2510.2	2449.9	2131.0
47.5°	3109.1	3120.7	3151.8	3264.6	3346.3	3356.0	3025.4	2801.8	2798.0	2706.6	2333.3
50°	2899.1	2891.3	3019.6	3272.4	3517.4	3706.0	3437.7	3118.8	3085.7	2973.0	2543.2
52.5°	2426.6	2451.9	2665.7	3037.1	3558.2	3943.2	3793.5	3464.9	3422.1	3237.4	2728.0
55°	2014.4	2041.6	2249.6	2613.2	3336.5	4026.8	4032.6	3832.4	3746.8	3466.8	2918.5
57.5°	1512.7	1565.2	1872.4	2214.6	2850.5	3818.8	4118.2	4184.3	4091.0	3688.5	3074.1
60°	966.4	997.5	1341.6	1763.5	2309.9	3274.3	4100.7	4388.5	4337.9	3890.7	3204.3
62.5°	631.9	649.4	886.6	1328.0	1759.7	2467.4	3892.6	4470.1	4470.1	4026.8	3301.6
64°	476.4	480.3	649.4	1079.1	1468.0	1923.0	3647.7	4444.8	4491.5	4108.5	3321.0
65°	377.2	379.2	507.5	896.4	1318.3	1576.9	3433.8	4390.4	4466.2	4139.6	3332.7
67.5°	264.4	270.3	328.6	517.2	945.0	910.0	2545.2	4133.7	4227.1	4149.3	3317.1
70°	229.4	237.2	276.1	338.3	674.7	528.9	1353.3	3523.2	3634.0	3865.4	3087.7
72.5°	175.0	184.7	231.4	285.8	474.4	357.8	523.0	2502.4	2677.4	2988.5	2549.1
75°	126.4	130.3	171.1	233.3	332.5	276.1	225.5	1291.1	1468.0	1763.5	1584.7
77.5°	79.7	85.6	116.7	175.0	297.5	210.0	134.2	470.5	593.0	768.0	692.2
80°	46.7	48.6	70.0	120.6	200.3	155.6	85.6	167.2	202.2	285.8	184.7
82.5°	27.2	29.2	44.7	81.7	130.3	120.6	54.4	85.6	95.3	108.9	38.9
85°	9.7	9.7	31.1	48.6	70.0	60.3	31.1	44.7	48.6	60.3	11.7
87.5°	1.9	1.9	15.6	25.3	25.3	9.7	15.6	19.4	23.3	33.1	3.9
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°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	663.0	657.2	651.4	643.6	637.8	626.1	620.3	612.5	610.5	606.6	604.7
5°	678.6	668.9	655.3	635.8	624.1	606.6	595.0	583.3	581.4	577.5	575.5
7.5°	700.0	690.3	672.8	651.4	631.9	614.4	600.8	583.3	565.8	552.2	552.2
10°	735.0	723.3	700.0	680.5	657.2	620.3	556.1	497.8	460.8	437.5	429.7
12.5°	777.8	762.2	736.9	713.6	668.9	552.2	453.0	377.2	315.0	285.8	280.0
15°	822.5	808.9	783.6	748.6	614.4	460.8	330.5	213.9	153.6	126.4	130.3
17.5°	871.1	851.6	822.5	752.5	540.5	344.2	176.9	108.9	93.3	89.4	89.4
20°	921.6	896.4	867.2	709.7	445.3	198.3	101.1	81.7	75.8	70.0	71.9
22.5°	976.1	945.0	900.2	645.5	318.9	106.9	77.8	66.1	58.3	56.4	56.4
25°	1034.4	989.7	933.3	571.6	184.7	81.7	64.2	52.5	46.7	44.7	42.8
27.5°	1096.6	1040.2	941.1	474.4	105.0	68.1	50.6	40.8	35.0	33.1	33.1
30°	1153.0	1090.8	923.6	351.9	79.7	56.4	40.8	31.1	27.2	27.2	27.2
32.5°	1228.8	1147.2	869.1	219.7	64.2	44.7	31.1	25.3	21.4	21.4	21.4
35°	1328.0	1230.8	814.7	116.7	52.5	36.9	25.3	19.4	17.5	17.5	17.5
37.5°	1464.1	1341.6	766.1	73.9	42.8	29.2	19.4	15.6	13.6	13.6	13.6
40°	1604.1	1473.8	698.0	56.4	35.0	23.3	15.6	11.7	9.7	9.7	11.7
42.5°	1779.1	1627.4	620.3	48.6	29.2	19.4	11.7	7.8	5.8	7.8	7.8
45°	1956.0	1788.8	511.4	40.8	25.3	15.6	7.8	3.9	3.9	5.8	5.8
47.5°	2138.8	1959.9	396.7	35.0	21.4	11.7	5.8	1.9	1.9	3.9	3.9
50°	2327.4	2129.1	295.5	31.1	17.5	9.7	3.9	1.9	0.0	1.9	1.9
52.5°	2516.0	2292.4	229.4	27.2	15.6	7.8	1.9	0.0	0.0	0.0	1.9
55°	2691.0	2440.2	182.8	23.3	13.6	5.8	1.9	0.0	0.0	0.0	0.0
57.5°	2838.8	2549.1	145.8	21.4	11.7	3.9	1.9	0.0	0.0	0.0	0.0
60°	2978.8	2634.6	112.8	17.5	9.7	3.9	1.9	0.0	0.0	0.0	0.0
62.5°	3077.9	2667.7	91.4	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
64°	3120.7	2671.6	79.7	13.6	7.8	3.9	1.9	0.0	0.0	0.0	0.0
65°	3146.0	2659.9	73.9	13.6	7.8	3.9	1.9	0.0	0.0	0.0	0.0
67.5°	3151.8	2595.7	56.4	11.7	5.8	1.9	1.9	0.0	0.0	0.0	0.0
70°	2980.7	2372.1	40.8	7.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	2490.7	1812.2	27.2	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	1555.5	783.6	15.6	5.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	643.6	237.2	9.7	3.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	147.8	56.4	3.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	9.7	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	7.8	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.9	1.9	1.9	1.9	1.9	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)