

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: P594348

Luminaire Tested: **ISC-PA1E-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
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-T3-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6302 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

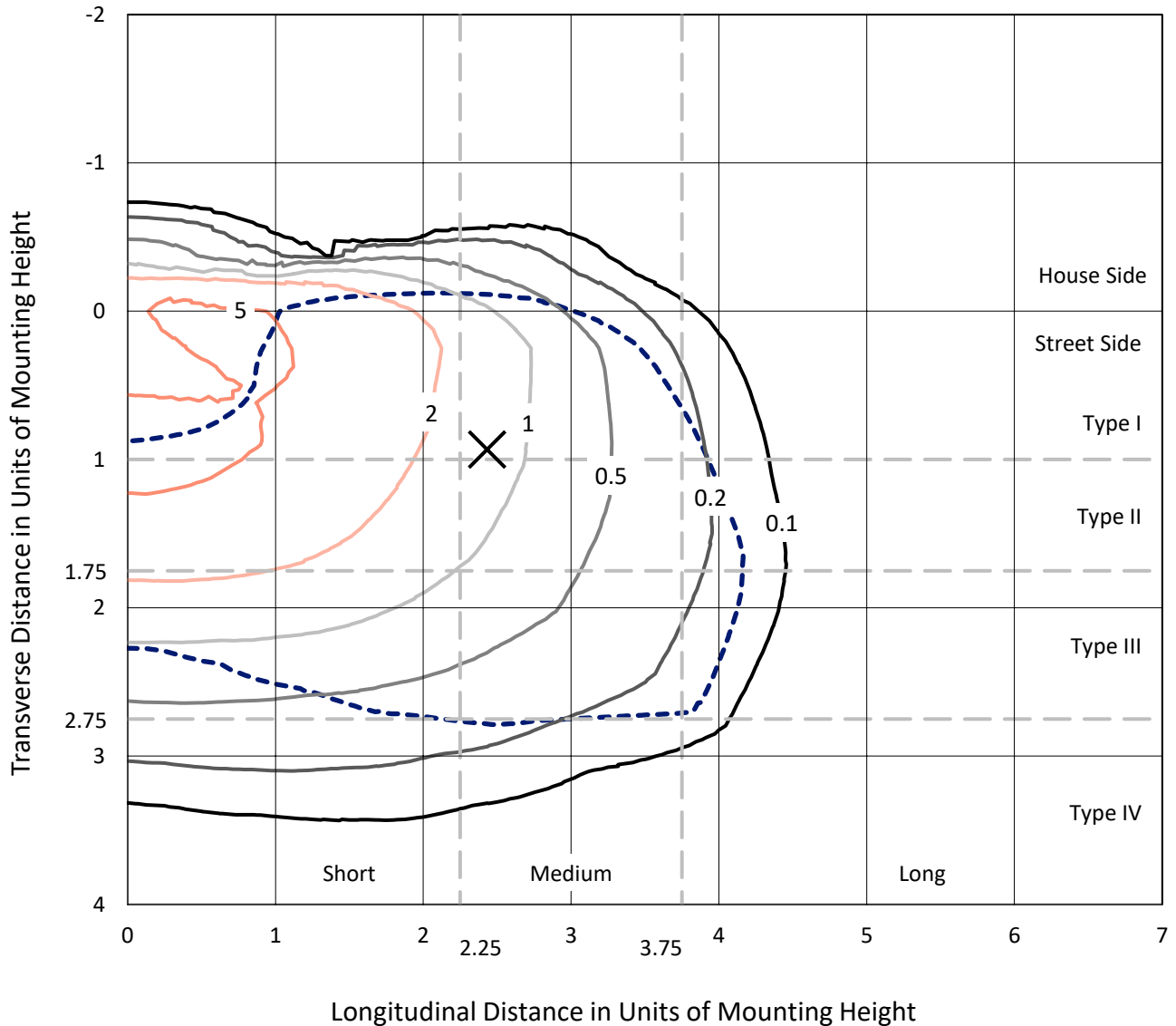
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

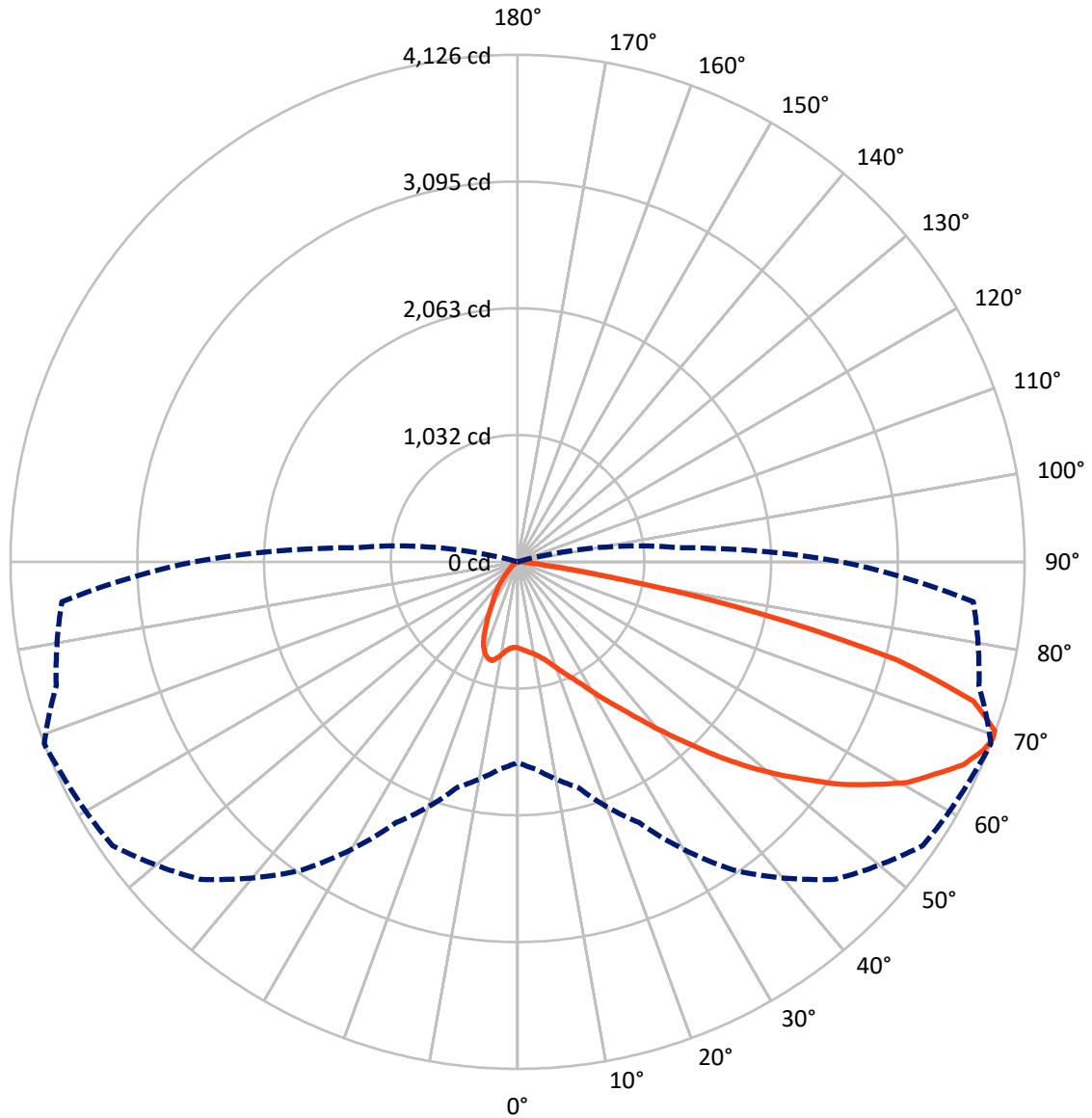
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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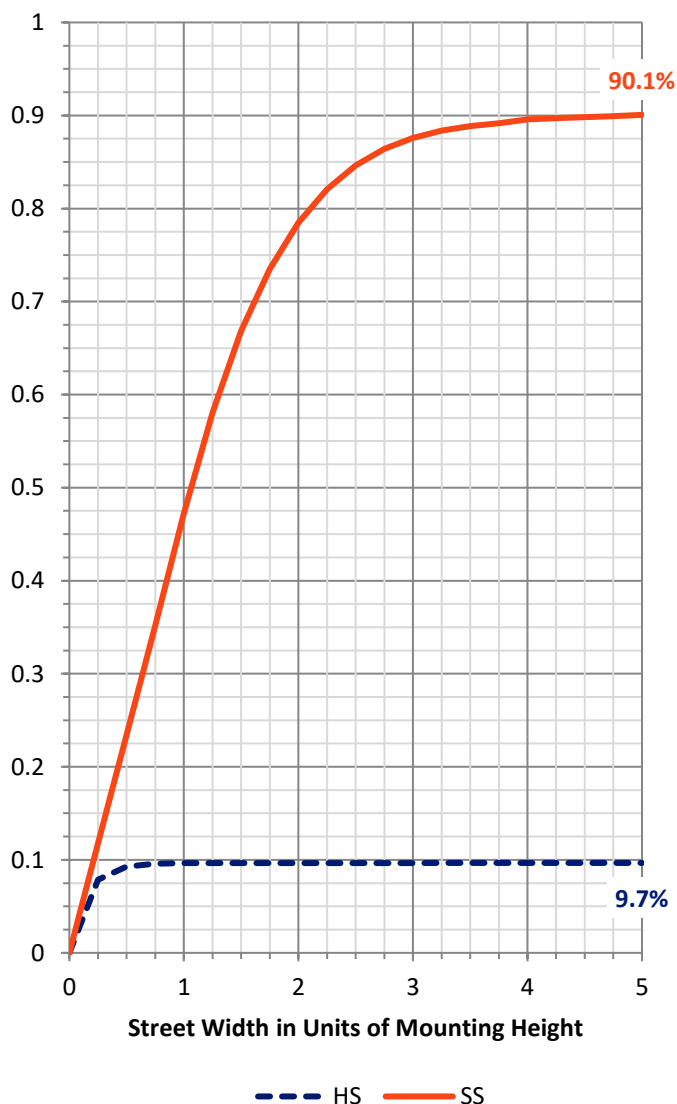
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.1	0.0	614.1
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5687.9	0.0	5687.9
	% Fixture	90.3	0.0	90.3
Total	Lumens	6302.0	0.0	6302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.1
10°-20°	176.8	2.8
20°-30°	294.4	4.7
30°-40°	530.1	8.4
40°-50°	961.2	15.3
50°-60°	1502.1	23.8
60°-70°	1737.9	27.6
70°-80°	971.9	15.4
80°-90°	60.7	1.0
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°	6302.0	100.0
0°-180°	6302.0	100.0

Coefficient of Utilization

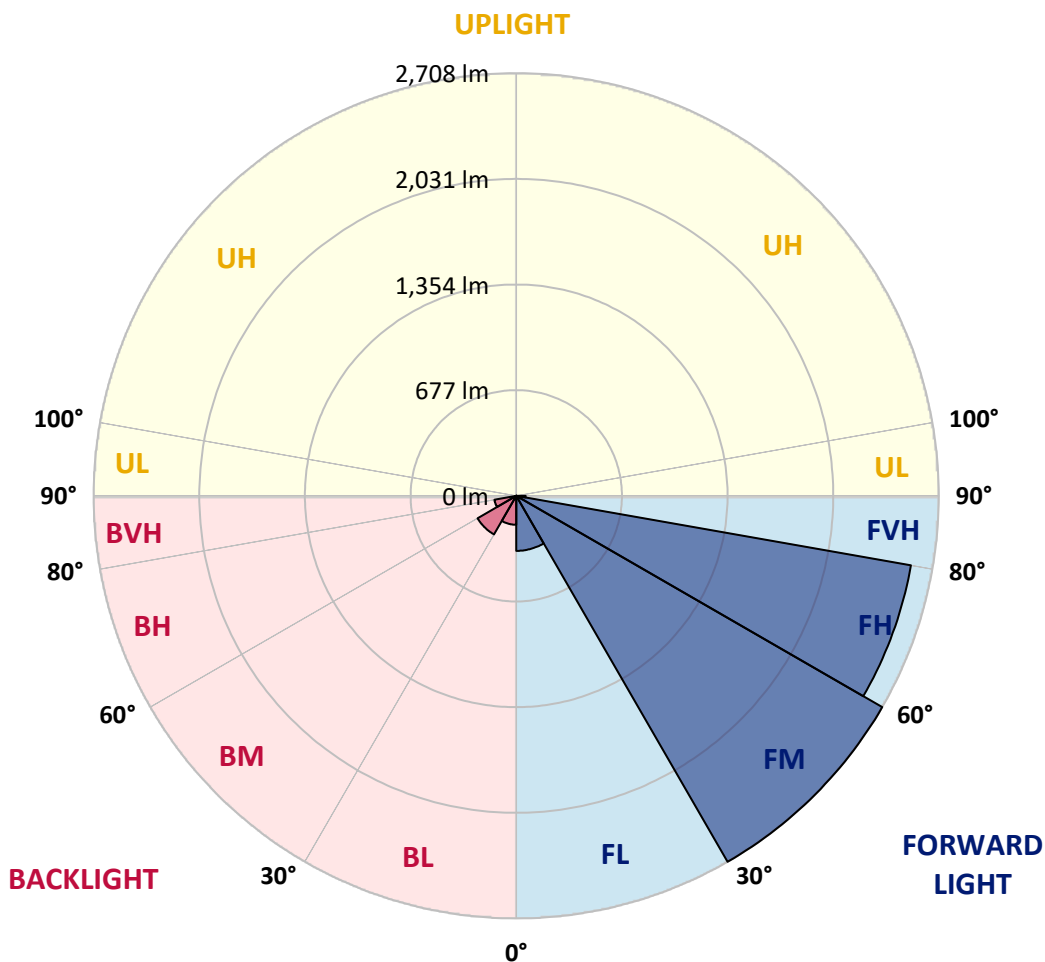


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.6	5.6			
FM (30°-60°)	2707.5	43.0			
FH (60°-80°)	2567.6	40.7			G2/5000
FVH (80°-90°)	60.2	1.0			G1/100
BL (0°-30°)	185.6	2.9	B1/500		
BM (30°-60°)	285.9	4.5	B1/1000		
BH (60°-80°)	142.2	2.3	B1/500		G1/500
BVH (80°-90°)	0.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	726.2	726.2	726.2	722.0	724.1	722.0	719.9	713.6	715.7	713.6	707.3
5°	701.0	703.1	709.4	713.6	724.1	728.3	730.4	730.4	728.3	724.1	719.9
7.5°	652.7	652.7	659.0	671.6	692.6	715.7	734.6	745.1	747.2	747.2	740.9
10°	640.1	640.1	648.5	656.9	677.9	705.2	734.6	759.8	764.0	768.2	766.1
12.5°	633.8	635.9	644.3	659.0	686.3	711.5	743.0	778.7	791.2	801.7	803.8
15°	642.2	642.2	650.6	665.3	696.8	732.5	772.4	812.2	824.8	839.5	850.0
17.5°	654.8	659.0	663.2	677.9	707.3	751.4	803.8	856.3	871.0	889.9	898.3
20°	675.8	675.8	680.0	692.6	724.1	776.6	850.0	913.0	925.6	938.2	948.7
22.5°	701.0	703.1	703.1	713.6	749.3	805.9	889.9	967.5	988.5	994.8	999.0
25°	776.6	772.4	757.7	751.4	778.7	839.5	938.2	1032.6	1055.7	1062.0	1053.6
27.5°	934.0	917.2	877.3	835.3	831.1	892.0	1003.2	1114.5	1139.6	1141.7	1112.4
30°	1131.2	1133.3	1068.3	978.0	917.2	948.7	1074.6	1217.3	1242.5	1232.0	1185.8
32.5°	1374.7	1364.2	1315.9	1185.8	1064.1	1036.8	1152.2	1324.3	1353.7	1336.9	1276.1
35°	1582.5	1588.8	1530.0	1414.6	1261.4	1173.2	1246.7	1444.0	1479.6	1450.3	1374.7
37.5°	1756.7	1765.1	1729.4	1635.0	1498.5	1360.0	1370.5	1584.6	1632.9	1603.5	1509.0
40°	1949.8	1956.1	1941.4	1838.5	1716.8	1582.5	1536.3	1746.2	1811.3	1771.4	1672.7
42.5°	2161.8	2184.8	2159.7	2077.8	1951.9	1836.4	1767.2	1943.5	2008.5	1983.4	1851.1
45°	2451.4	2453.5	2424.1	2342.3	2212.1	2117.7	2033.7	2153.4	2237.3	2205.8	2050.5
47.5°	2665.5	2680.2	2663.4	2606.7	2501.8	2438.8	2323.4	2384.2	2472.4	2432.5	2256.2
50°	2829.2	2869.0	2854.4	2871.1	2818.7	2791.4	2615.1	2623.5	2709.5	2676.0	2466.1
52.5°	2919.4	2969.8	2974.0	3060.0	3104.1	3171.3	2898.4	2885.8	2940.4	2911.0	2680.2
55°	2906.8	2919.4	3024.4	3181.8	3353.9	3507.1	3175.5	3123.0	3198.6	3116.7	2906.8
57.5°	2785.1	2816.6	3001.3	3196.5	3500.8	3723.3	3414.7	3356.0	3418.9	3309.8	3139.8
60°	2610.9	2657.1	2894.2	3173.4	3586.8	3853.4	3647.7	3588.9	3645.6	3513.4	3404.2
62.5°	2453.5	2474.5	2692.7	3076.8	3536.5	3847.1	3828.2	3773.6	3807.2	3668.7	3630.9
65°	2228.9	2237.3	2453.5	2902.6	3425.2	3805.1	3926.8	3947.8	3983.5	3798.8	3792.5
67.5°	1882.6	1901.5	2115.6	2598.3	3240.5	3723.3	4004.5	4046.5	4088.4	3868.1	3821.9
69°	1632.9	1693.7	1899.4	2342.3	3062.1	3654.0	4025.5	4092.6	4126.2	3887.0	3723.3
70°	1429.3	1481.7	1718.9	2145.0	2904.7	3576.3	4040.2	4086.3	4119.9	3847.1	3561.6
72.5°	717.8	784.9	1110.3	1565.7	2308.7	3221.6	3964.6	3914.2	3878.6	3538.6	2881.6
75°	277.0	287.5	476.4	892.0	1444.0	2365.3	3385.3	3290.9	3186.0	2684.4	1708.4
77.5°	153.2	151.1	207.8	394.6	614.9	1156.4	2289.8	2138.7	1993.9	1441.9	692.6
80°	65.1	69.3	90.2	188.9	323.2	400.9	1112.4	988.5	787.0	457.5	165.8
82.5°	39.9	42.0	63.0	115.4	224.6	153.2	361.0	308.5	226.7	123.8	39.9
85°	12.6	14.7	44.1	77.7	109.1	63.0	81.9	71.4	63.0	52.5	12.6
87.5°	2.1	2.1	16.8	42.0	29.4	10.5	8.4	14.7	23.1	25.2	4.2
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°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	705.2	701.0	696.8	694.7	694.7	690.5	688.4	686.3	686.3	684.2	684.2
5°	713.6	709.4	705.2	703.1	698.9	696.8	696.8	696.8	694.7	696.8	698.9
7.5°	734.6	728.3	726.2	724.1	724.1	717.8	707.3	680.0	652.7	644.3	635.9
10°	764.0	761.9	761.9	761.9	747.2	692.6	617.0	549.9	514.2	484.8	484.8
12.5°	805.9	805.9	803.8	797.5	722.0	589.8	472.2	371.5	312.7	279.1	283.3
15°	852.1	850.0	854.2	814.3	635.9	455.4	285.4	201.5	170.0	165.8	165.8
17.5°	900.4	904.6	900.4	770.3	522.6	281.2	170.0	153.2	149.0	149.0	149.0
20°	950.8	946.6	940.3	694.7	379.9	176.3	146.9	142.7	138.5	136.4	136.4
22.5°	1001.1	996.9	954.9	598.2	237.2	144.8	138.5	130.1	123.8	121.7	121.7
25°	1049.4	1049.4	927.7	474.3	161.6	136.4	125.9	117.5	111.2	104.9	104.9
27.5°	1110.3	1114.5	883.6	331.6	136.4	125.9	113.3	100.7	92.3	88.1	88.1
30°	1179.5	1185.8	812.2	216.2	123.8	111.2	98.6	84.0	71.4	67.2	65.1
32.5°	1261.4	1267.7	730.4	142.7	111.2	96.5	81.9	63.0	50.4	48.3	46.2
35°	1366.3	1351.6	631.7	113.3	96.5	81.9	63.0	44.1	35.7	33.6	33.6
37.5°	1496.4	1465.0	518.4	98.6	81.9	65.1	46.2	29.4	23.1	23.1	21.0
40°	1645.5	1557.3	400.9	88.1	69.3	50.4	29.4	18.9	14.7	14.7	14.7
42.5°	1809.2	1635.0	285.4	77.7	56.7	35.7	18.9	10.5	8.4	8.4	8.4
45°	1998.0	1706.3	195.2	67.2	48.3	25.2	10.5	4.2	4.2	4.2	4.2
47.5°	2186.9	1752.5	130.1	58.8	35.7	14.7	6.3	2.1	2.1	2.1	2.1
50°	2377.9	1788.2	100.7	50.4	25.2	8.4	2.1	0.0	0.0	0.0	0.0
52.5°	2547.9	1813.4	81.9	42.0	16.8	6.3	2.1	0.0	0.0	0.0	0.0
55°	2694.8	1815.5	71.4	33.6	12.6	4.2	0.0	0.0	0.0	0.0	0.0
57.5°	2843.9	1798.7	60.9	25.2	8.4	2.1	0.0	0.0	0.0	0.0	0.0
60°	2934.1	1754.6	48.3	18.9	6.3	2.1	0.0	0.0	0.0	0.0	0.0
62.5°	2988.7	1681.1	37.8	12.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0
65°	2957.2	1588.8	27.3	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	2810.3	1446.1	18.9	6.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
69°	2636.1	1315.9	16.8	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
70°	2482.9	1215.2	14.7	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	1849.0	782.8	12.6	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	1038.9	262.3	8.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	390.4	67.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	86.1	16.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	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)