

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: P594420

Luminaire Tested: **ISC-PA1F-827-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594420  
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-PA1F-827-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA 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: 6390 lumens  
Efficiency: N/A  
Efficacy: 67.7 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

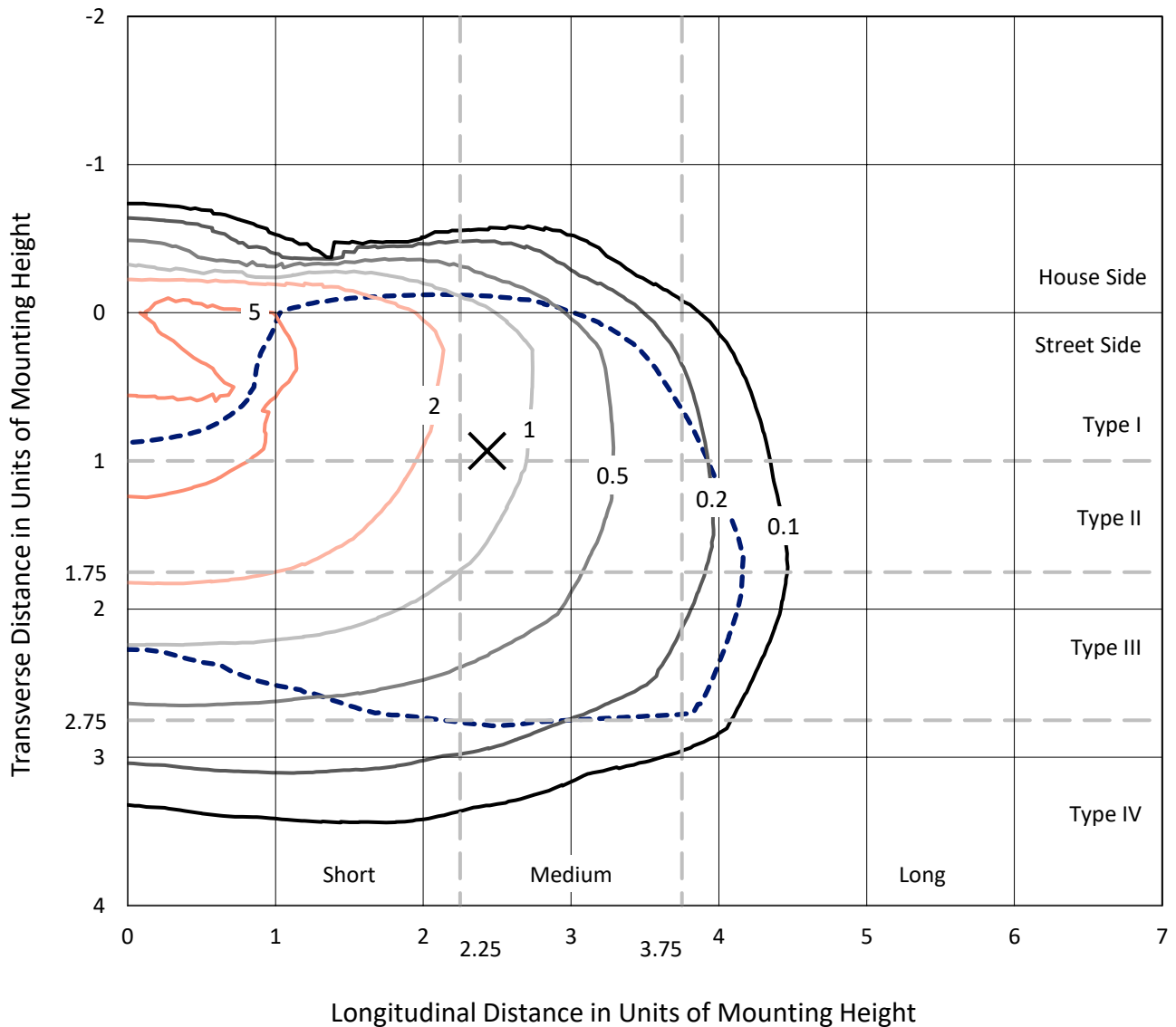
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

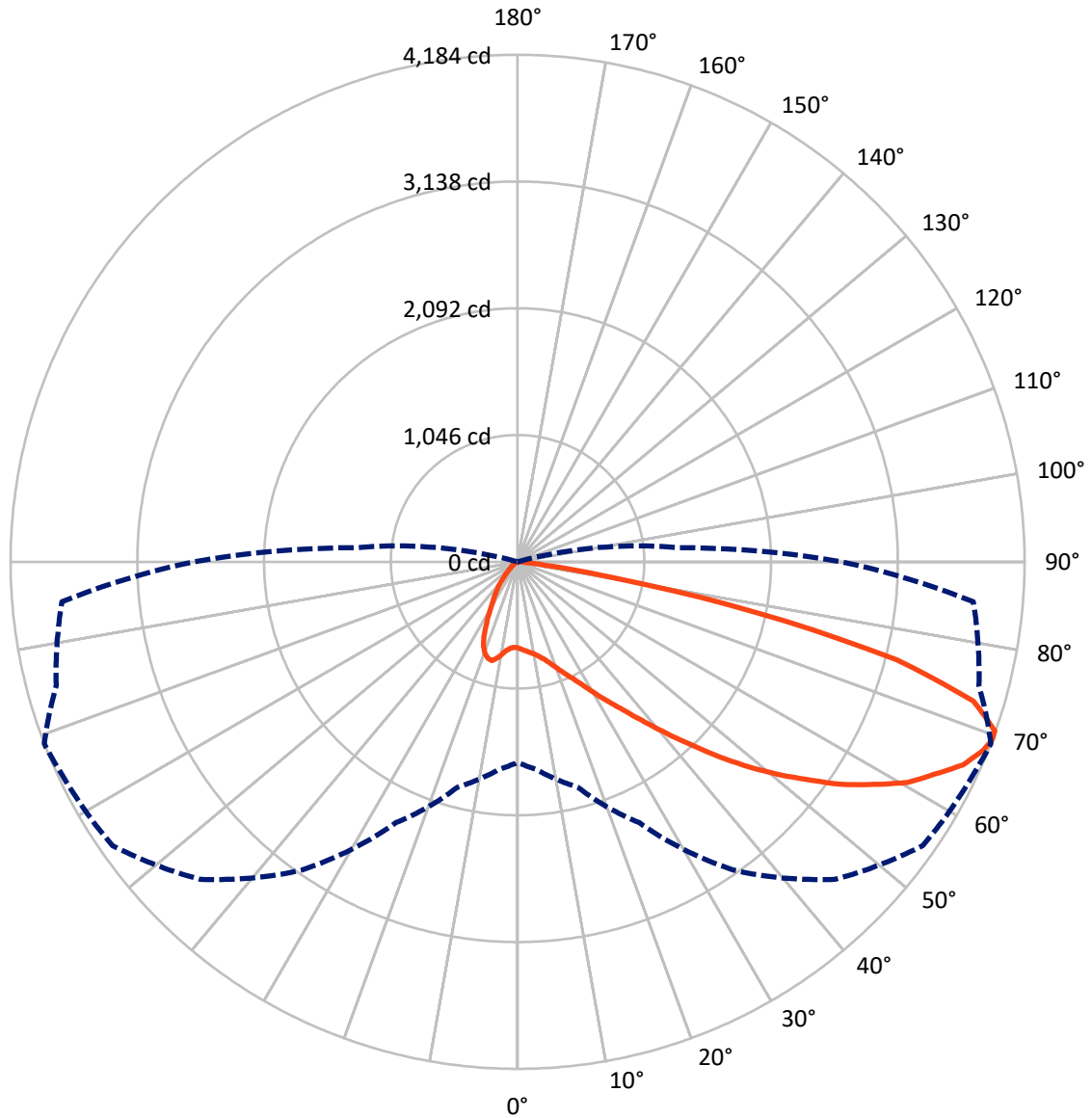
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 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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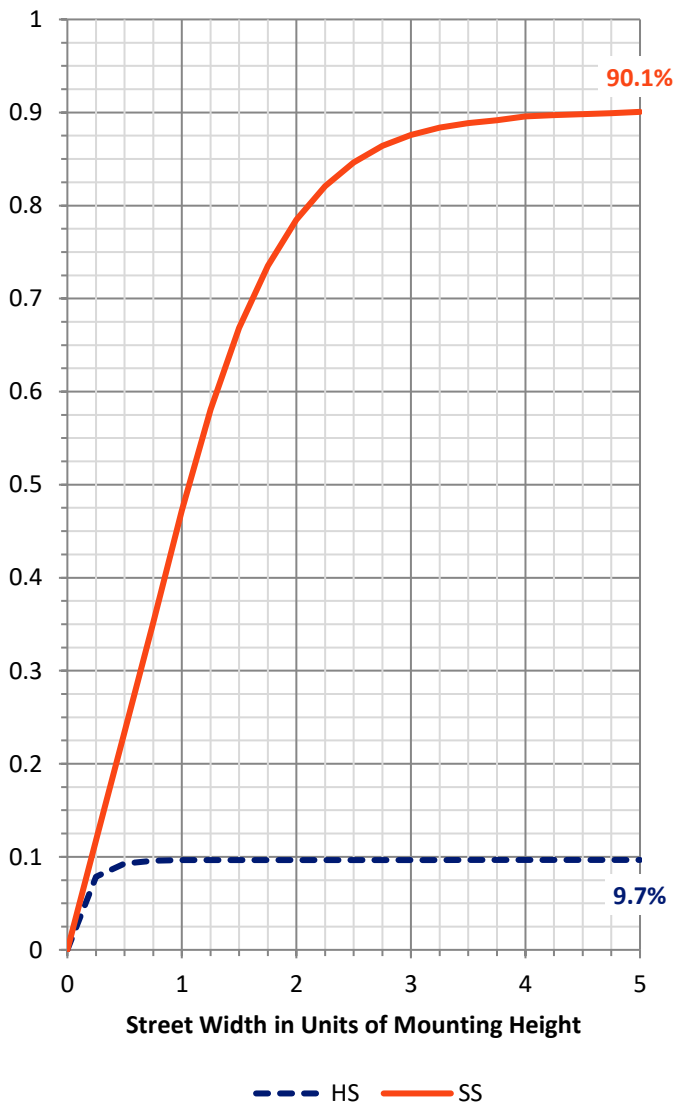
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	622.6	0.0	622.6
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5767.4	0.0	5767.4
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	6390.0	0.0	6390.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	1.1
10°-20°	179.3	2.8
20°-30°	298.5	4.7
30°-40°	537.5	8.4
40°-50°	974.6	15.3
50°-60°	1523.1	23.8
60°-70°	1762.2	27.6
70°-80°	985.5	15.4
80°-90°	61.5	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°	6390.0	100.0
0°-180°	6390.0	100.0

**Coefficient of Utilization**

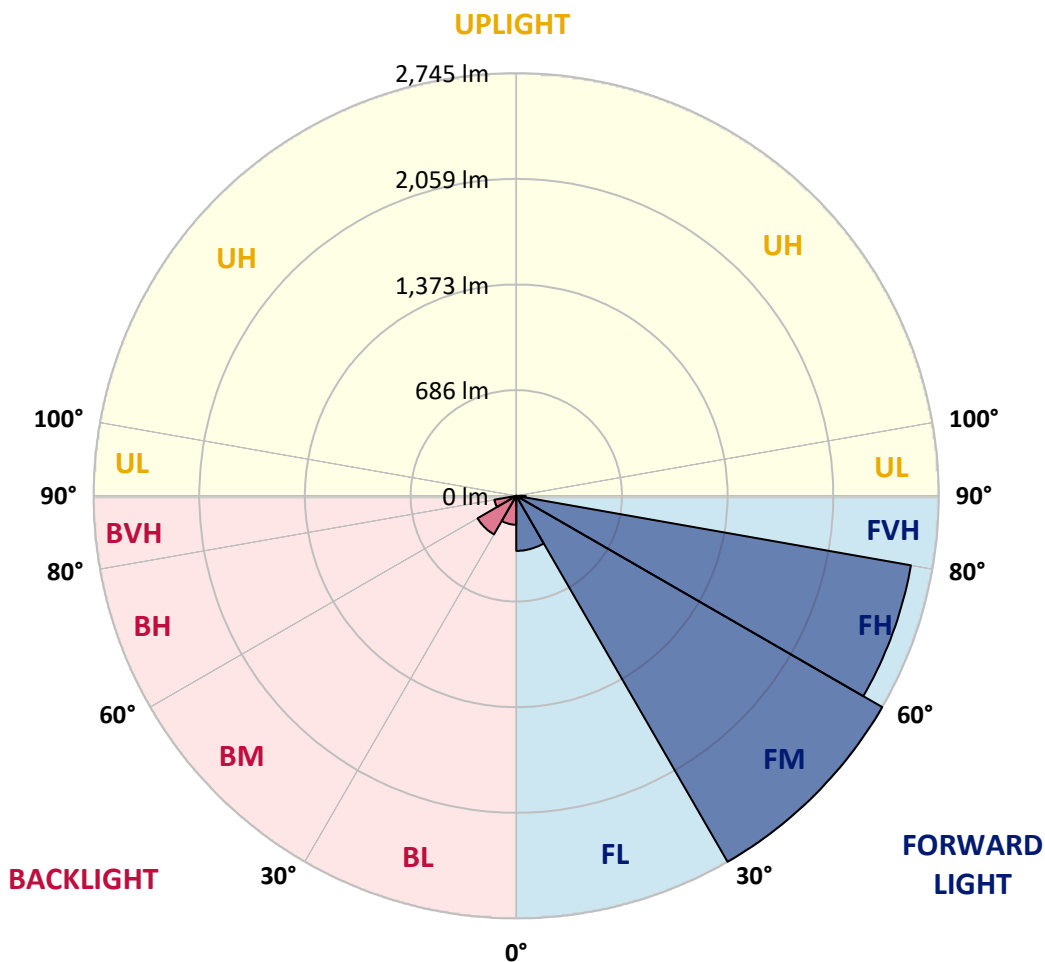


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.5	5.6			
FM (30°-60°)	2745.4	43.0			
FH (60°-80°)	2603.5	40.7			G2/5000
FVH (80°-90°)	61.1	1.0			G1/100
BL (0°-30°)	188.2	2.9	B1/500		
BM (30°-60°)	289.9	4.5	B1/1000		
BH (60°-80°)	144.2	2.3	B1/500		G1/500
BVH (80°-90°)	0.5	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°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	736.3	736.3	736.3	732.1	734.2	732.1	729.9	723.6	725.7	723.6	717.2
5°	710.8	712.9	719.3	723.6	734.2	738.4	740.6	740.6	738.4	734.2	729.9
7.5°	661.8	661.8	668.2	681.0	702.3	725.7	744.8	755.5	757.6	757.6	751.2
10°	649.1	649.1	657.6	666.1	687.4	715.0	744.8	770.4	774.6	778.9	776.8
12.5°	642.7	644.8	653.3	668.2	695.9	721.4	753.3	789.5	802.3	812.9	815.1
15°	651.2	651.2	659.7	674.6	706.5	742.7	783.1	823.6	836.3	851.2	861.9
17.5°	664.0	668.2	672.5	687.4	717.2	761.9	815.1	868.3	883.2	902.3	910.8
20°	685.2	685.2	689.5	702.3	734.2	787.4	861.9	925.7	938.5	951.3	961.9
22.5°	710.8	712.9	712.9	723.6	759.7	817.2	902.3	981.1	1002.3	1008.7	1013.0
25°	787.4	783.1	768.2	761.9	789.5	851.2	951.3	1047.0	1070.4	1076.8	1068.3
27.5°	947.0	930.0	889.5	847.0	842.7	904.4	1017.2	1130.0	1155.6	1157.7	1127.9
30°	1147.0	1149.2	1083.2	991.7	930.0	961.9	1089.6	1234.3	1259.8	1249.2	1202.4
32.5°	1393.9	1383.3	1334.3	1202.4	1078.9	1051.3	1168.3	1342.8	1372.6	1355.6	1293.9
35°	1604.6	1611.0	1551.4	1434.3	1279.0	1189.6	1264.1	1464.1	1500.3	1470.5	1393.9
37.5°	1781.2	1789.7	1753.6	1657.8	1519.5	1379.0	1389.6	1606.7	1655.7	1625.9	1530.1
40°	1977.0	1983.4	1968.5	1864.2	1740.8	1604.6	1557.8	1770.6	1836.5	1796.1	1696.1
42.5°	2191.9	2215.3	2189.8	2106.8	1979.1	1862.1	1791.9	1970.6	2036.6	2011.1	1877.0
45°	2485.6	2487.7	2458.0	2375.0	2243.0	2147.3	2062.1	2183.4	2268.6	2236.6	2079.2
47.5°	2702.7	2717.6	2700.6	2643.1	2536.7	2472.8	2355.8	2417.5	2506.9	2466.5	2287.7
50°	2868.7	2909.1	2894.2	2911.2	2858.0	2830.4	2651.6	2660.1	2747.4	2713.3	2500.5
52.5°	2960.2	3011.3	3015.5	3102.8	3147.5	3215.6	2938.9	2926.1	2981.5	2951.7	2717.6
55°	2947.4	2960.2	3066.6	3226.2	3400.7	3556.1	3219.8	3166.6	3243.2	3160.2	2947.4
57.5°	2824.0	2855.9	3043.2	3241.1	3549.7	3775.2	3462.4	3402.8	3466.7	3356.0	3183.6
60°	2647.4	2694.2	2934.6	3217.7	3636.9	3907.2	3698.6	3639.0	3696.5	3562.4	3451.8
62.5°	2487.7	2509.0	2730.3	3119.8	3585.8	3900.8	3881.7	3826.3	3860.4	3719.9	3681.6
65°	2260.0	2268.6	2487.7	2943.2	3473.1	3858.2	3981.7	4003.0	4039.1	3851.9	3845.5
67.5°	1908.9	1928.1	2145.1	2634.6	3285.8	3775.2	4060.4	4103.0	4145.5	3922.1	3875.3
69°	1655.7	1717.4	1925.9	2375.0	3104.9	3705.0	4081.7	4149.8	4183.8	3941.2	3775.2
70°	1449.2	1502.4	1742.9	2174.9	2945.3	3626.3	4096.6	4143.4	4177.5	3900.8	3611.4
72.5°	727.8	795.9	1125.8	1587.6	2340.9	3266.6	4020.0	3968.9	3932.7	3588.0	2921.9
75°	280.9	291.5	483.1	904.4	1464.1	2398.4	3432.6	3336.9	3230.5	2721.8	1732.3
77.5°	155.4	153.2	210.7	400.1	623.5	1172.6	2321.8	2168.5	2021.7	1462.0	702.3
80°	66.0	70.2	91.5	191.5	327.7	406.5	1127.9	1002.3	798.0	463.9	168.1
82.5°	40.4	42.6	63.8	117.0	227.7	155.4	366.0	312.8	229.8	125.6	40.4
85°	12.8	14.9	44.7	78.7	110.7	63.8	83.0	72.4	63.8	53.2	12.8
87.5°	2.1	2.1	17.0	42.6	29.8	10.6	8.5	14.9	23.4	25.5	4.3
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°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	715.0	710.8	706.5	704.4	704.4	700.1	698.0	695.9	695.9	693.8	693.8
5°	723.6	719.3	715.0	712.9	708.7	706.5	706.5	706.5	704.4	706.5	708.7
7.5°	744.8	738.4	736.3	734.2	734.2	727.8	717.2	689.5	661.8	653.3	644.8
10°	774.6	772.5	772.5	772.5	757.6	702.3	625.7	557.6	521.4	491.6	491.6
12.5°	817.2	817.2	815.1	808.7	732.1	598.0	478.8	376.7	317.1	283.0	287.3
15°	864.0	861.9	866.1	825.7	644.8	461.8	289.4	204.3	172.4	168.1	168.1
17.5°	913.0	917.2	913.0	781.0	529.9	285.2	172.4	155.4	151.1	151.1	151.1
20°	964.0	959.8	953.4	704.4	385.2	178.8	149.0	144.7	140.5	138.3	138.3
22.5°	1015.1	1010.8	968.3	606.5	240.5	146.8	140.5	131.9	125.6	123.4	123.4
25°	1064.0	1064.0	940.6	481.0	163.9	138.3	127.7	119.2	112.8	106.4	106.4
27.5°	1125.8	1130.0	895.9	336.2	138.3	127.7	114.9	102.1	93.6	89.4	89.4
30°	1196.0	1202.4	823.6	219.2	125.6	112.8	100.0	85.1	72.4	68.1	66.0
32.5°	1279.0	1285.4	740.6	144.7	112.8	97.9	83.0	63.8	51.1	48.9	46.8
35°	1385.4	1370.5	640.6	114.9	97.9	83.0	63.8	44.7	36.2	34.0	34.0
37.5°	1517.3	1485.4	525.6	100.0	83.0	66.0	46.8	29.8	23.4	23.4	21.3
40°	1668.4	1579.0	406.5	89.4	70.2	51.1	29.8	19.2	14.9	14.9	14.9
42.5°	1834.4	1657.8	289.4	78.7	57.5	36.2	19.2	10.6	8.5	8.5	8.5
45°	2025.9	1730.1	197.9	68.1	48.9	25.5	10.6	4.3	4.3	4.3	4.3
47.5°	2217.5	1777.0	131.9	59.6	36.2	14.9	6.4	2.1	2.1	2.1	2.1
50°	2411.1	1813.1	102.1	51.1	25.5	8.5	2.1	0.0	0.0	0.0	0.0
52.5°	2583.5	1838.7	83.0	42.6	17.0	6.4	2.1	0.0	0.0	0.0	0.0
55°	2732.5	1840.8	72.4	34.0	12.8	4.3	0.0	0.0	0.0	0.0	0.0
57.5°	2883.6	1823.8	61.7	25.5	8.5	2.1	0.0	0.0	0.0	0.0	0.0
60°	2975.1	1779.1	48.9	19.2	6.4	2.1	0.0	0.0	0.0	0.0	0.0
62.5°	3030.4	1704.6	38.3	12.8	4.3	2.1	0.0	0.0	0.0	0.0	0.0
65°	2998.5	1611.0	27.7	8.5	4.3	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	2849.5	1466.3	19.2	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0
69°	2672.9	1334.3	17.0	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
70°	2517.5	1232.2	14.9	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	1874.9	793.8	12.8	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	1053.4	266.0	8.5	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	395.8	68.1	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.3	17.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	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)