

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: P200176

Luminaire Tested: **GPC-AF-02-LED-E1-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-T2  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12469.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 113  
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: 25 FT

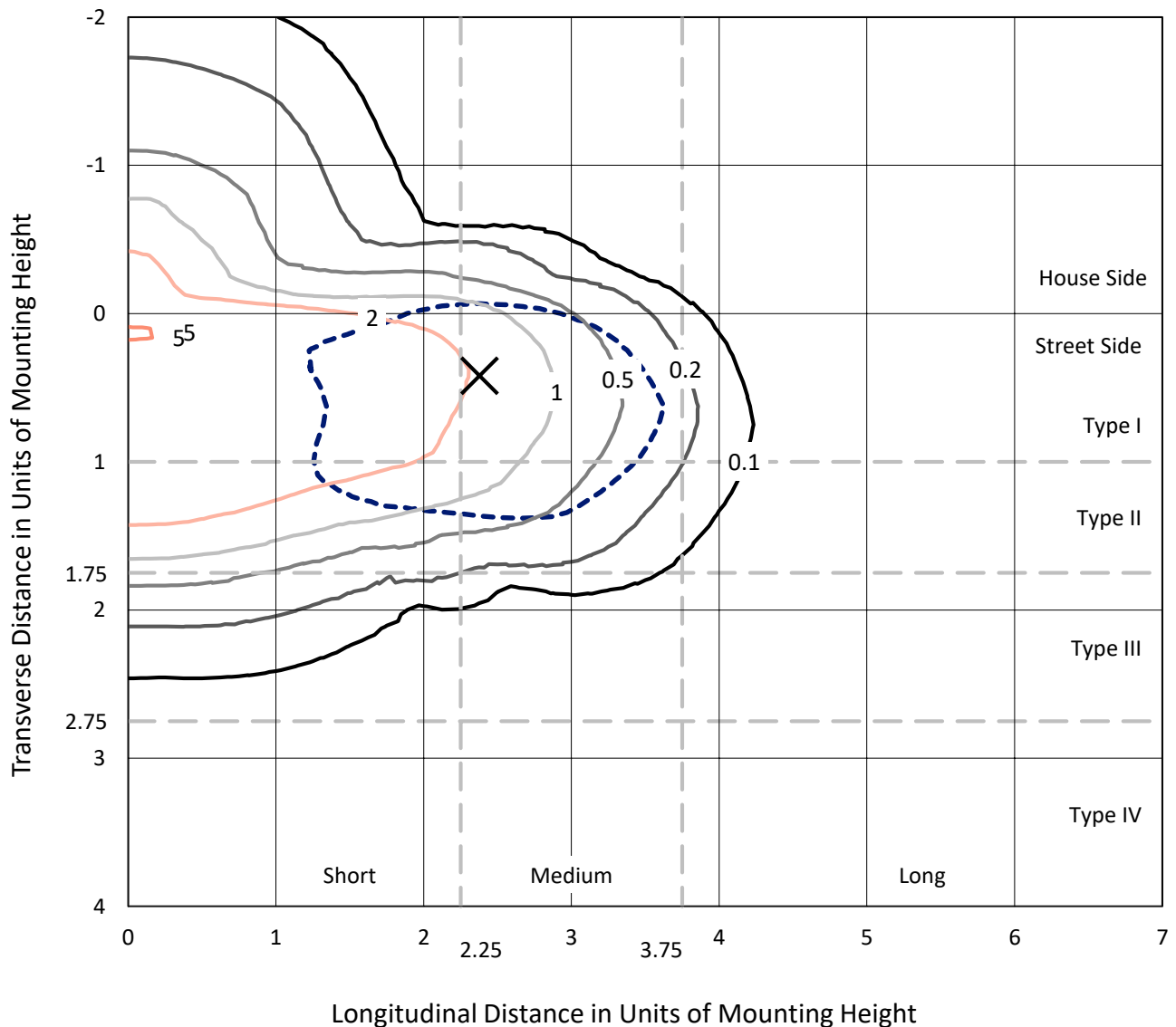


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

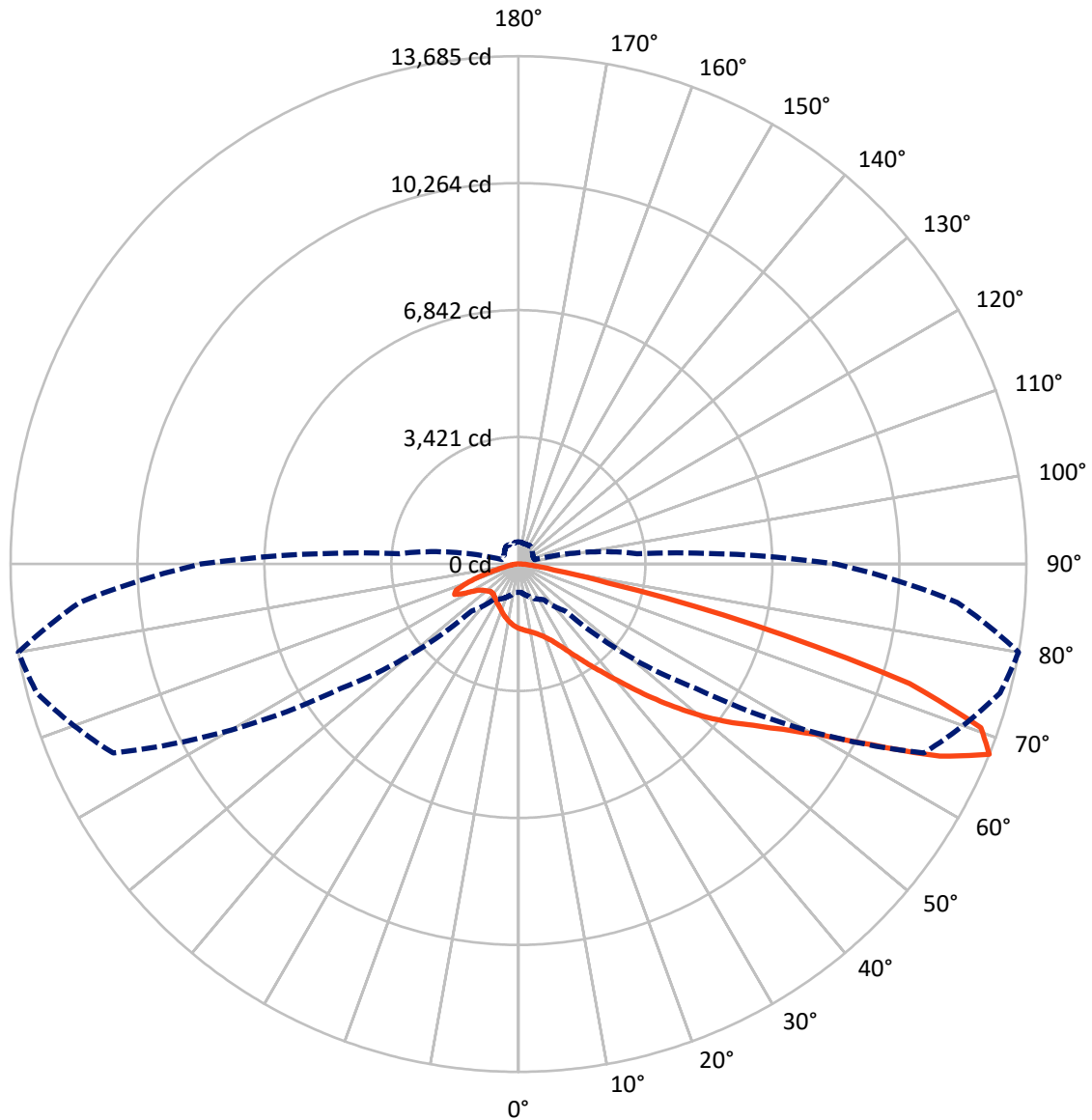


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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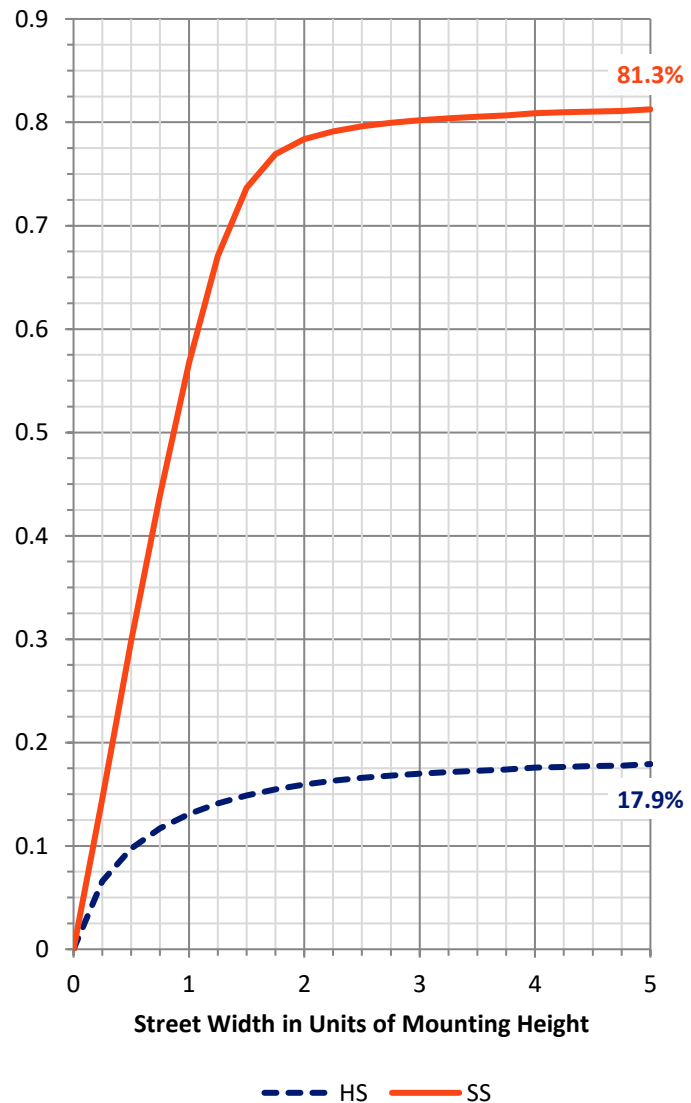
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2296.4	0.0	2296.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	10173.3	0.0	10173.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	12469.8	0.0	12469.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	1.3
10°-20°	460.4	3.7
20°-30°	762.0	6.1
30°-40°	1246.4	10.0
40°-50°	2012.5	16.1
50°-60°	2905.4	23.3
60°-70°	3206.3	25.7
70°-80°	1477.9	11.9
80°-90°	239.0	1.9
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°	12469.8	100.0
0°-180°	12469.8	100.0



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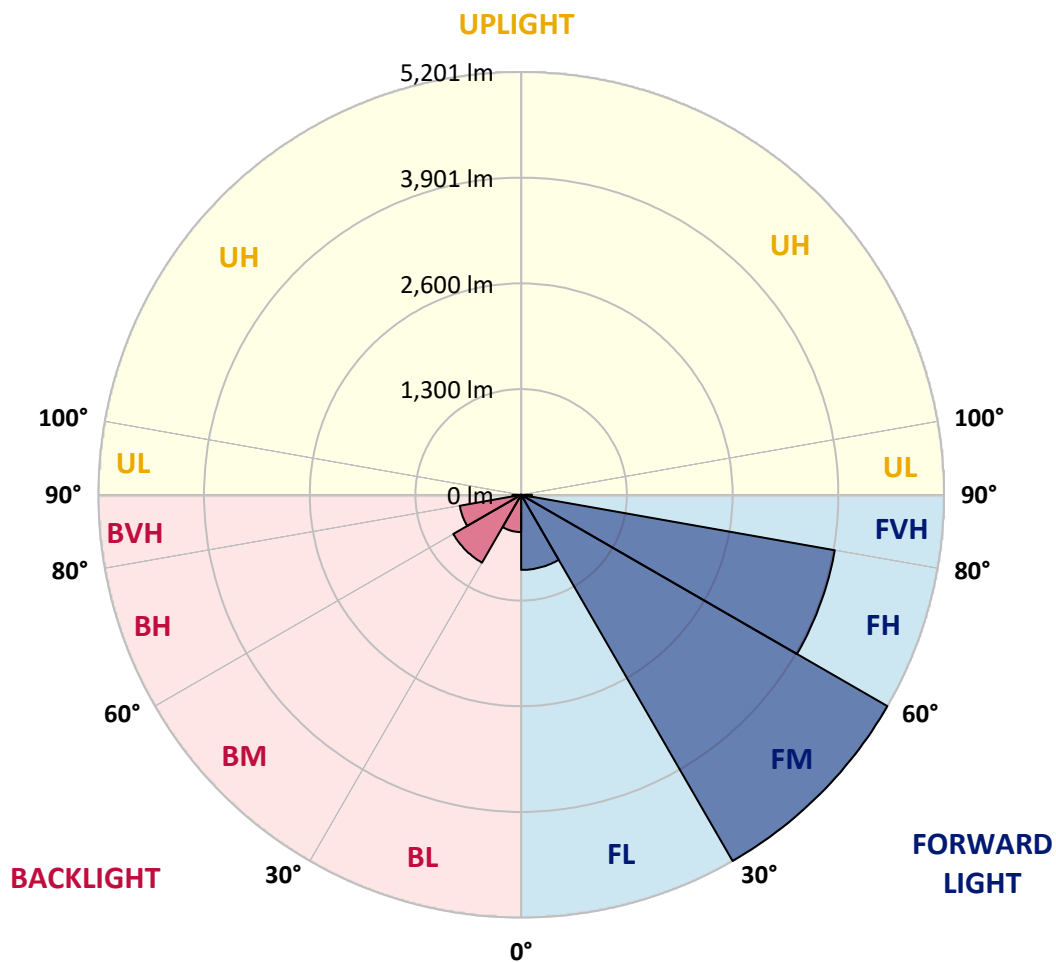
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.0	7.4			
FM (30°-60°)	5200.8	41.7			
FH (60°-80°)	3917.1	31.4			G2/5000
FVH (80°-90°)	131.4	1.1			G2/225
BL (0°-30°)	458.2	3.7	B1/500		
BM (30°-60°)	963.5	7.7	B1/1000		
BH (60°-80°)	767.2	6.2	B2/1000		G2/1000
BVH (80°-90°)	107.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1895.1	1884.1	1885.9	1882.8	1873.6	1857.7	1840.5	1809.2	1776.7	1759.5	1745.9
5°	2053.5	2050.4	2046.1	2036.3	2013.0	1979.8	1938.7	1883.5	1823.9	1792.6	1762.5
7.5°	2171.9	2170.1	2164.6	2158.4	2135.7	2095.8	2033.8	1955.3	1868.7	1825.8	1779.1
10°	2181.7	2184.8	2189.1	2205.7	2208.8	2187.3	2124.1	2028.9	1915.4	1860.1	1800.6
12.5°	2098.3	2105.0	2121.6	2164.0	2208.8	2235.1	2202.6	2106.3	1970.0	1903.1	1827.6
15°	1987.8	1991.5	2011.7	2070.0	2150.4	2232.1	2262.9	2191.6	2040.6	1958.3	1868.1
17.5°	1940.5	1942.4	1956.5	1995.2	2070.0	2186.7	2296.6	2284.4	2127.1	2027.1	1917.8
20°	1916.6	1920.9	1941.2	1979.2	2026.5	2128.4	2301.5	2384.4	2230.2	2113.0	1980.4
22.5°	1984.7	1982.9	1990.3	2009.3	2049.2	2110.6	2297.9	2487.5	2361.7	2223.5	2062.1
25°	2143.7	2150.4	2137.6	2116.1	2129.0	2171.9	2317.5	2599.2	2526.2	2365.4	2168.9
27.5°	2370.3	2363.5	2344.5	2294.2	2267.8	2286.2	2382.6	2719.5	2730.6	2552.0	2310.1
30°	2596.1	2590.6	2572.2	2510.8	2456.8	2441.5	2509.0	2857.7	2974.3	2776.1	2483.2
32.5°	2830.7	2824.6	2807.4	2745.9	2680.8	2645.2	2688.8	3017.3	3261.7	3043.7	2687.0
35°	3119.8	3108.1	3071.9	2986.6	2922.8	2895.2	2915.4	3218.0	3593.1	3360.5	2934.4
37.5°	3391.8	3409.6	3372.8	3254.8	3172.0	3162.1	3184.9	3463.0	3950.4	3714.6	3218.6
40°	3664.9	3668.0	3634.9	3538.5	3453.2	3437.2	3494.3	3760.1	4372.2	4138.2	3564.3
42.5°	3947.4	3953.5	3897.6	3808.7	3745.9	3749.0	3814.2	4108.2	4855.9	4637.3	3962.1
45°	4282.0	4291.2	4229.7	4113.1	4056.0	4170.8	4143.8	4498.6	5386.3	5204.6	4418.8
47.5°	4631.8	4645.9	4599.3	4490.0	4418.8	4576.6	4473.5	4931.4	5957.3	5813.0	4920.4
50°	4822.8	4843.1	4888.5	4880.5	4865.2	4838.8	4841.2	5395.6	6546.0	6446.5	5436.1
52.5°	4720.2	4719.6	4885.4	5086.7	5301.6	5317.6	5289.4	5884.8	7096.0	7065.9	5921.7
55°	4251.2	4283.2	4534.2	4924.1	5510.9	5877.5	5960.9	6445.3	7636.2	7671.2	6414.6
57.5°	3470.4	3496.8	3835.7	4378.9	5228.5	6210.1	6916.2	7259.9	8240.3	8403.6	7070.8
60°	2353.7	2385.6	2744.7	3397.3	4468.6	6024.8	7825.4	8713.6	8963.5	9334.9	7991.7
62.5°	1383.1	1412.0	1704.7	2143.1	3146.2	5163.4	8224.3	10781.9	10112.1	10740.1	9396.3
65°	952.2	971.8	1114.2	1334.0	1808.0	3477.7	7729.5	12209.7	11879.5	12481.1	11025.0
67.5°	766.2	763.7	876.7	1026.4	1163.9	1793.2	5844.9	12048.3	13433.9	13684.9	11870.3
70°	631.1	628.6	705.3	829.4	930.1	1009.9	3183.6	10167.3	13117.1	13219.0	11091.9
72.5°	527.9	530.4	579.5	671.6	763.1	760.7	1399.1	7152.5	10319.0	11023.7	8842.0
75°	445.7	446.9	479.5	544.5	619.4	612.6	758.8	3874.9	5998.4	6488.9	4901.4
77.5°	379.4	380.6	401.5	437.7	491.1	488.7	553.7	1674.1	2502.2	2471.6	1676.5
80°	338.3	338.3	348.1	354.9	384.3	373.3	410.7	804.2	1057.7	976.7	669.1
82.5°	265.3	266.5	326.6	324.2	302.7	288.6	288.6	473.9	560.5	518.1	391.7
85°	149.1	148.5	210.5	254.2	266.5	203.2	201.3	265.3	305.1	268.9	189.7
87.5°	63.8	65.1	97.6	112.9	151.0	126.4	124.6	136.9	155.3	134.4	87.8
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°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1733.0	1717.0	1682.0	1638.5	1599.2	1573.4	1550.1	1516.3	1518.2	1494.8	1477.7
5°	1731.8	1698.6	1617.6	1521.2	1428.6	1361.6	1311.3	1265.9	1254.9	1233.3	1220.4
7.5°	1733.0	1679.0	1542.7	1388.7	1273.9	1189.1	1146.1	1122.2	1116.7	1109.3	1109.9
10°	1737.3	1661.2	1460.5	1264.7	1144.3	1088.4	1078.0	1085.4	1093.9	1096.4	1097.0
12.5°	1747.1	1645.2	1370.2	1154.1	1063.3	1046.1	1063.9	1089.0	1105.6	1113.6	1113.0
15°	1769.3	1632.9	1283.7	1067.6	1018.4	1027.7	1060.8	1096.4	1120.3	1131.4	1132.0
17.5°	1793.2	1615.1	1194.6	1001.3	985.3	1008.6	1049.8	1091.5	1120.9	1133.2	1135.7
20°	1824.5	1593.0	1101.3	951.5	954.0	980.4	1019.1	1060.8	1093.3	1103.8	1108.7
22.5°	1865.7	1569.1	1019.7	911.0	918.4	938.7	968.7	1004.9	1033.2	1038.1	1042.4
25°	1920.9	1543.3	954.6	874.2	877.3	888.9	909.2	930.7	950.3	944.8	949.1
27.5°	1995.2	1521.2	906.1	840.5	834.9	837.4	847.8	854.6	865.0	849.7	851.5
30°	2082.3	1497.3	868.7	811.0	795.7	791.4	793.8	797.5	805.5	784.6	781.5
32.5°	2183.6	1468.4	833.7	785.2	763.7	755.1	756.4	766.2	796.9	784.0	777.2
35°	2301.5	1435.9	796.9	757.0	742.2	729.9	728.6	759.4	850.9	842.9	836.8
37.5°	2439.6	1403.4	760.1	725.0	726.2	712.7	708.4	743.4	861.3	830.0	825.7
40°	2615.2	1386.2	728.6	691.2	706.6	704.7	696.1	713.9	792.6	735.4	728.0
42.5°	2832.6	1388.7	705.3	655.0	683.2	702.9	689.4	690.0	718.2	675.2	668.5
45°	3100.8	1417.5	688.8	626.1	656.8	701.0	686.9	677.1	679.5	656.8	653.2
47.5°	3413.9	1477.0	677.1	602.2	631.7	694.3	686.3	673.4	667.9	655.6	652.5
50°	3762.0	1563.6	668.5	579.5	609.0	683.2	686.9	669.7	663.6	658.7	656.8
52.5°	4103.9	1662.4	655.6	559.9	591.2	669.7	688.8	666.0	659.3	655.6	653.8
55°	4485.1	1785.9	636.0	543.3	576.4	652.5	688.8	660.5	653.2	653.8	653.2
57.5°	5000.2	1985.3	612.6	529.2	558.6	631.7	677.1	654.4	645.2	645.8	646.4
60°	5805.0	2337.1	584.4	515.1	536.5	607.1	661.1	640.9	631.7	634.1	634.7
62.5°	6988.6	2853.4	547.6	494.2	513.2	580.7	639.0	623.7	614.5	620.6	620.6
65°	8218.8	3308.9	502.2	467.8	488.7	551.9	611.4	602.2	593.0	607.1	606.5
67.5°	8549.7	3207.0	456.7	438.9	464.1	520.0	578.3	573.4	568.5	593.0	591.8
70°	7595.1	2574.7	415.0	409.5	437.1	485.6	542.7	542.7	539.6	558.0	553.7
72.5°	5786.6	1825.8	375.1	378.2	406.4	448.2	504.0	508.3	503.4	512.6	508.9
75°	3097.7	1044.8	335.2	343.8	368.4	410.1	461.0	465.3	462.3	461.7	463.5
77.5°	1029.5	510.8	293.5	307.0	328.5	370.8	416.2	423.0	415.6	414.4	413.8
80°	458.6	321.1	247.3	265.3	284.3	326.0	369.0	374.5	366.5	377.6	363.5
82.5°	294.7	211.1	198.2	217.9	236.3	281.2	321.7	322.9	315.6	366.5	312.5
85°	143.0	130.7	149.1	166.9	182.9	221.0	266.5	267.1	248.6	226.5	218.5
87.5°	71.2	76.1	99.4	115.4	123.4	151.6	194.0	190.3	182.3	165.7	152.8
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)