

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: P200658

Luminaire Tested: **GWC-AF-02-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200658
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: GWC-AF-02-LED-E1-T2-8030-1200
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10912 lumens
Efficiency: N/A
Efficacy: 84.6 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

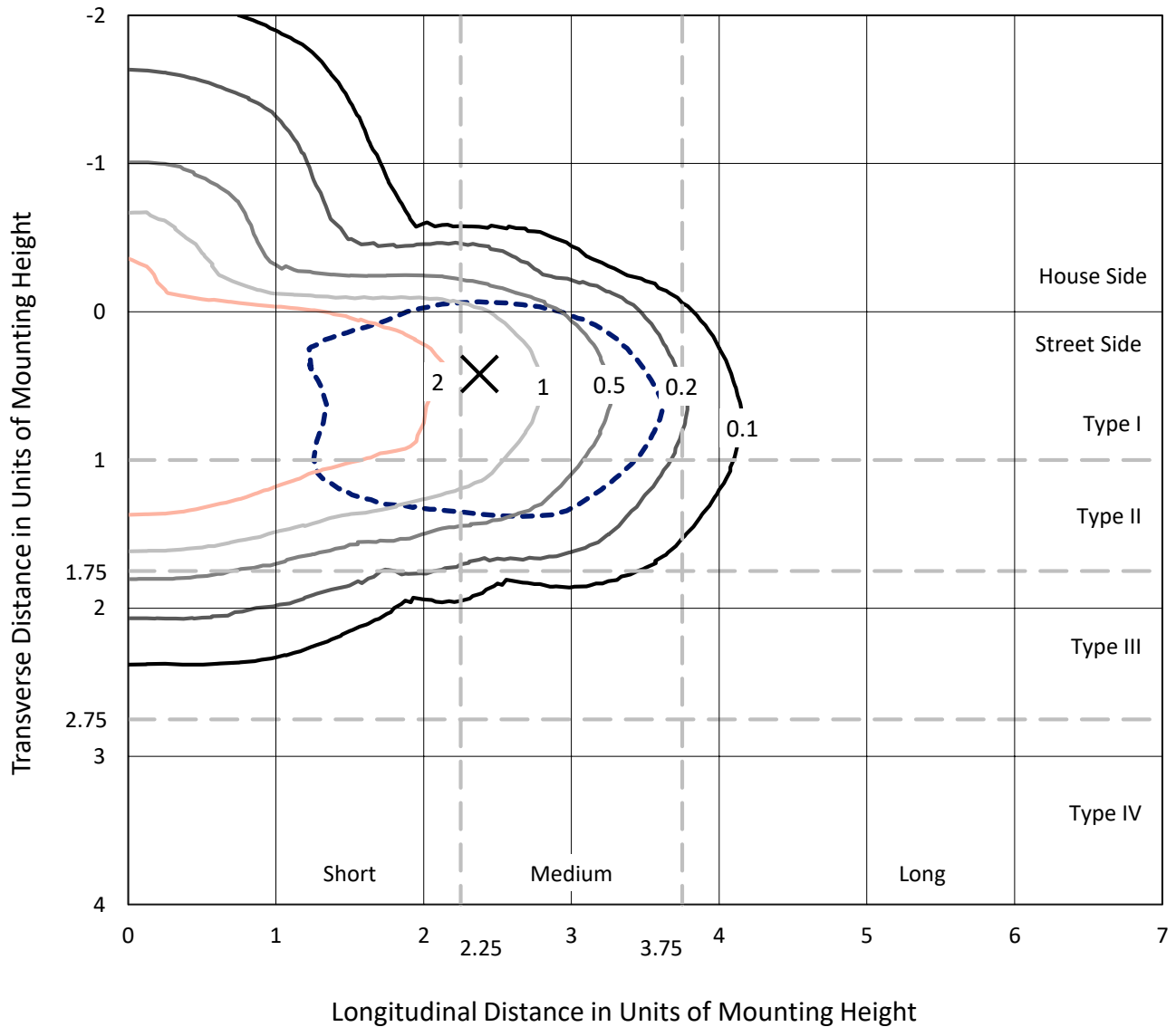
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

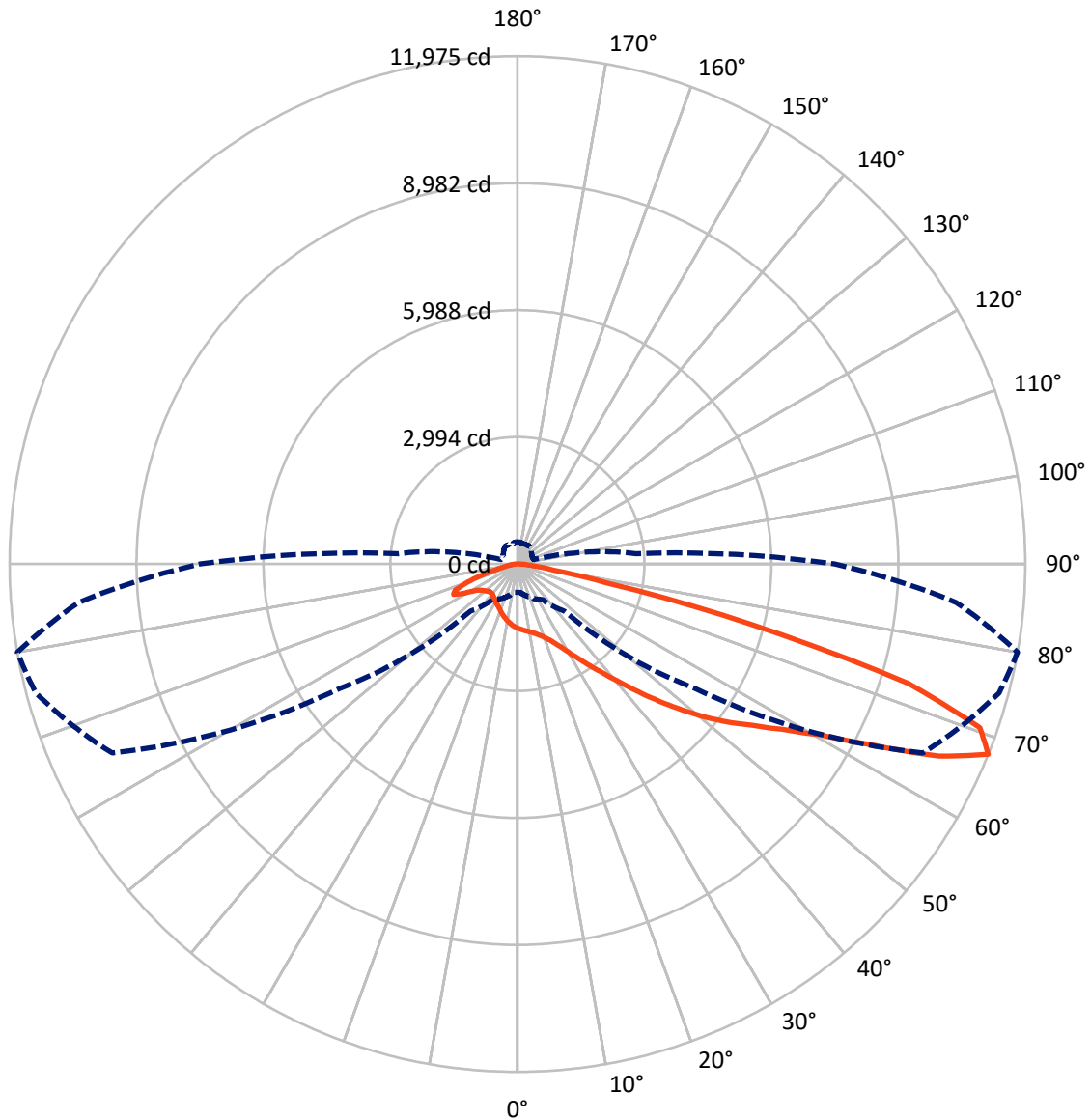


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Full Cutoff

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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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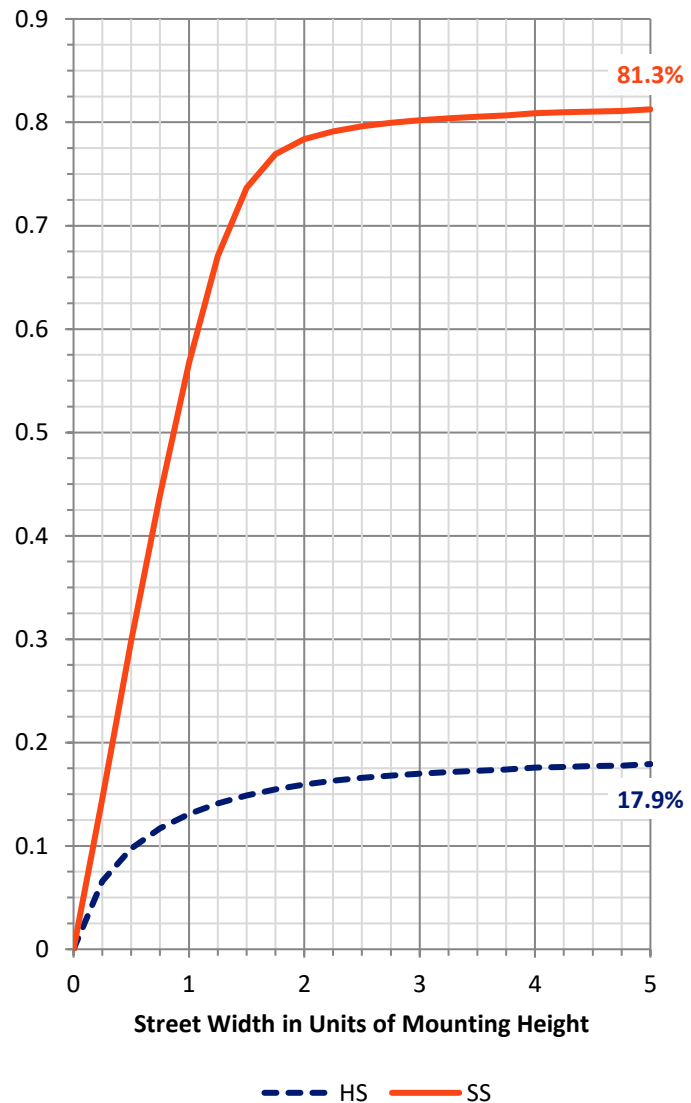
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2009.6	0.0	2009.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8902.4	0.0	8902.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	10912.0	0.0	10912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	1.3
10°-20°	402.8	3.7
20°-30°	666.8	6.1
30°-40°	1090.7	10.0
40°-50°	1761.1	16.1
50°-60°	2542.5	23.3
60°-70°	2805.8	25.7
70°-80°	1293.3	11.9
80°-90°	209.2	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°	10912.0	100.0
0°-180°	10912.0	100.0



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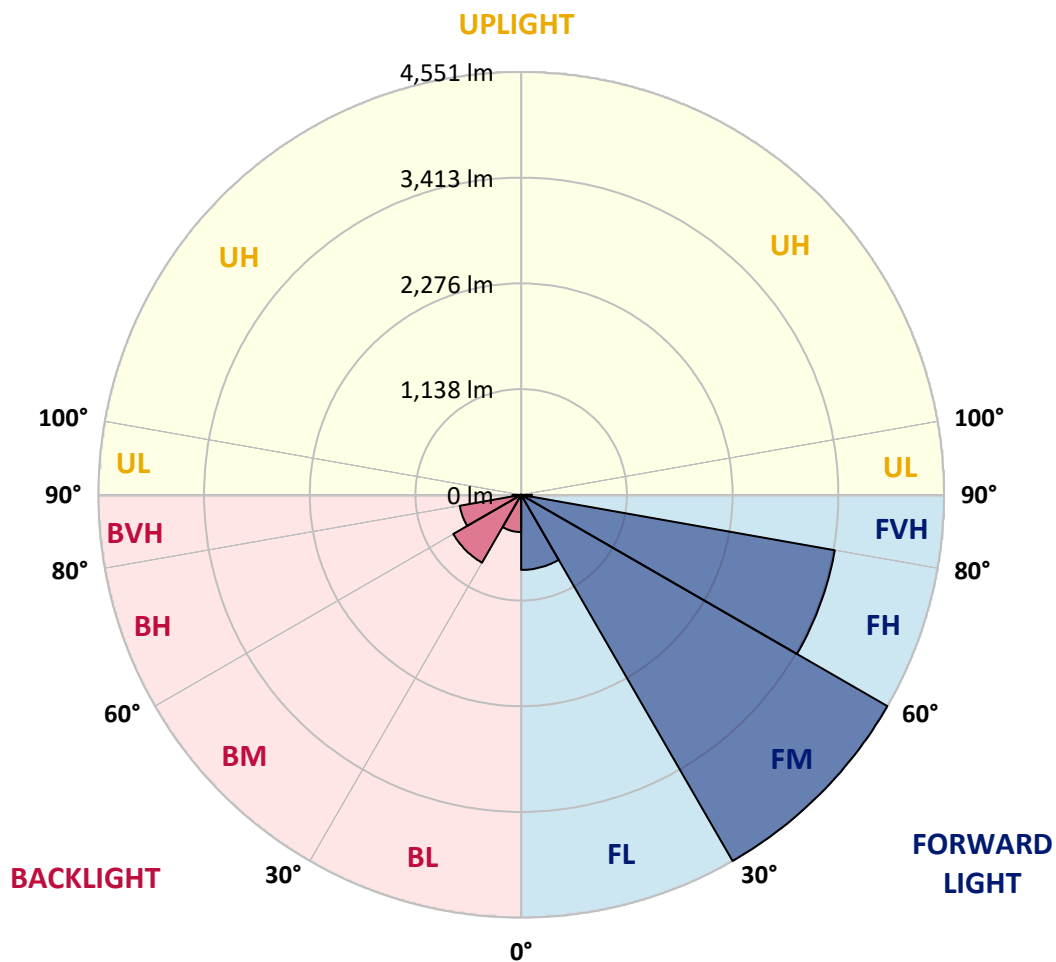
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.6	7.4			
FM (30°-60°)	4551.1	41.7			
FH (60°-80°)	3427.7	31.4			G2/5000
FVH (80°-90°)	115.0	1.1			G2/225
BL (0°-30°)	400.9	3.7	B1/500		
BM (30°-60°)	843.1	7.7	B1/1000		
BH (60°-80°)	671.3	6.2	B2/1000		G2/1000
BVH (80°-90°)	94.2	0.9			G1/100
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°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1658.4	1648.7	1650.3	1647.6	1639.6	1625.6	1610.5	1583.1	1554.7	1539.6	1527.8
5°	1797.0	1794.3	1790.5	1781.9	1761.5	1732.5	1696.5	1648.1	1596.0	1568.6	1542.3
7.5°	1900.6	1899.0	1894.2	1888.8	1868.9	1834.0	1779.8	1711.0	1635.3	1597.6	1556.8
10°	1909.2	1911.9	1915.7	1930.2	1932.9	1914.1	1858.7	1775.5	1676.1	1627.7	1575.6
12.5°	1836.2	1842.1	1856.6	1893.6	1932.9	1956.0	1927.5	1843.2	1723.9	1665.3	1599.3
15°	1739.5	1742.7	1760.4	1811.5	1881.8	1953.3	1980.1	1917.8	1785.7	1713.7	1634.7
17.5°	1698.1	1699.7	1712.1	1745.9	1811.5	1913.5	2009.7	1998.9	1861.4	1773.9	1678.2
20°	1677.2	1680.9	1698.6	1732.0	1773.3	1862.5	2014.0	2086.5	1951.7	1849.1	1733.0
22.5°	1736.8	1735.2	1741.6	1758.3	1793.2	1846.9	2010.8	2176.8	2066.6	1945.8	1804.5
25°	1875.9	1881.8	1870.5	1851.7	1863.0	1900.6	2028.0	2274.5	2210.6	2069.9	1897.9
27.5°	2074.2	2068.2	2051.6	2007.5	1984.4	2000.6	2084.9	2379.8	2389.5	2233.2	2021.5
30°	2271.8	2267.0	2250.9	2197.2	2149.9	2136.5	2195.6	2500.7	2602.8	2429.2	2173.0
32.5°	2477.1	2471.7	2456.6	2402.9	2346.0	2314.8	2353.0	2640.4	2854.2	2663.5	2351.3
35°	2730.1	2719.9	2688.2	2613.5	2557.6	2533.5	2551.2	2816.0	3144.3	2940.7	2567.8
37.5°	2968.1	2983.6	2951.4	2848.3	2775.7	2767.1	2787.0	3030.4	3456.9	3250.6	2816.6
40°	3207.1	3209.8	3180.8	3096.5	3021.8	3007.8	3057.8	3290.4	3826.0	3621.3	3119.0
42.5°	3454.2	3459.6	3410.7	3332.8	3278.0	3280.7	3337.7	3595.0	4249.3	4058.1	3467.1
45°	3747.0	3755.1	3701.3	3599.3	3549.3	3649.8	3626.1	3936.6	4713.4	4554.4	3866.8
47.5°	4053.2	4065.6	4024.7	3929.1	3866.8	4004.9	3914.6	4315.4	5213.0	5086.8	4305.7
50°	4220.3	4238.0	4277.8	4270.8	4257.4	4234.3	4236.4	4721.5	5728.2	5641.2	4757.0
52.5°	4130.6	4130.0	4275.1	4451.3	4639.3	4653.3	4628.6	5149.7	6209.6	6183.2	5181.9
55°	3720.1	3748.1	3967.8	4308.9	4822.5	5143.2	5216.3	5640.1	6682.3	6712.9	5613.3
57.5°	3036.8	3059.9	3356.5	3831.9	4575.4	5434.4	6052.2	6353.0	7210.9	7353.8	6187.5
60°	2059.6	2087.6	2401.8	2972.9	3910.3	5272.1	6847.8	7625.1	7843.7	8168.7	6993.3
62.5°	1210.3	1235.6	1491.8	1875.4	2753.2	4518.4	7196.9	9434.9	8848.9	9398.4	8222.5
65°	833.2	850.4	975.0	1167.3	1582.1	3043.3	6764.0	10684.5	10395.5	10921.9	9647.7
67.5°	670.4	668.3	767.1	898.2	1018.5	1569.2	5114.7	10543.2	11755.7	11975.4	10387.4
70°	552.2	550.1	617.2	725.8	813.9	883.7	2785.9	8897.2	11478.5	11567.6	9706.2
72.5°	462.0	464.1	507.1	587.7	667.7	665.6	1224.3	6259.0	9029.9	9646.6	7737.4
75°	390.0	391.1	419.6	476.5	542.0	536.1	664.0	3390.8	5249.0	5678.3	4289.0
77.5°	332.0	333.1	351.3	383.0	429.8	427.6	484.6	1465.0	2189.6	2162.8	1467.1
80°	296.0	296.0	304.6	310.5	336.3	326.6	359.4	703.7	925.6	854.7	585.6
82.5°	232.1	233.1	285.8	283.6	264.8	252.5	252.5	414.7	490.5	453.4	342.7
85°	130.5	130.0	184.3	222.4	233.1	177.8	176.2	232.1	267.0	235.3	166.0
87.5°	55.9	56.9	85.4	98.8	132.2	110.7	109.1	119.8	135.9	117.6	76.8
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°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1516.5	1502.6	1471.9	1433.8	1399.4	1376.9	1356.4	1326.9	1328.5	1308.1	1293.1
5°	1515.5	1486.4	1415.5	1331.2	1250.1	1191.5	1147.5	1107.7	1098.0	1079.2	1068.0
7.5°	1516.5	1469.3	1350.0	1215.2	1114.7	1040.6	1003.0	982.0	977.2	970.7	971.3
10°	1520.3	1453.7	1278.0	1106.6	1001.4	952.5	943.3	949.8	957.3	959.4	960.0
12.5°	1528.9	1439.7	1199.0	1009.9	930.4	915.4	931.0	953.0	967.5	974.5	974.0
15°	1548.2	1429.0	1123.3	934.2	891.2	899.3	928.3	959.4	980.4	990.1	990.6
17.5°	1569.2	1413.4	1045.4	876.2	862.2	882.6	918.6	955.2	980.9	991.7	993.8
20°	1596.6	1394.0	963.7	832.7	834.8	857.9	891.8	928.3	956.8	965.9	970.2
22.5°	1632.6	1373.1	892.3	797.2	803.7	821.4	847.7	879.4	904.1	908.4	912.2
25°	1680.9	1350.5	835.4	765.0	767.7	777.9	795.6	814.4	831.6	826.8	830.5
27.5°	1745.9	1331.2	792.9	735.4	730.6	732.7	741.9	747.8	756.9	743.5	745.1
30°	1822.2	1310.2	760.1	709.6	696.2	692.5	694.6	697.8	704.8	686.5	683.9
32.5°	1910.8	1285.0	729.5	687.1	668.3	660.8	661.8	670.4	697.3	686.0	680.1
35°	2014.0	1256.5	697.3	662.4	649.5	638.7	637.7	664.5	744.6	737.6	732.2
37.5°	2134.9	1228.1	665.1	634.4	635.5	623.7	619.9	650.6	753.7	726.3	722.5
40°	2288.5	1213.0	637.7	604.9	618.3	616.7	609.2	624.8	693.5	643.6	637.1
42.5°	2478.7	1215.2	617.2	573.2	597.9	615.1	603.3	603.8	628.5	590.9	585.0
45°	2713.4	1240.4	602.7	547.9	574.8	613.5	601.1	592.5	594.7	574.8	571.6
47.5°	2987.4	1292.5	592.5	527.0	552.8	607.6	600.6	589.3	584.5	573.7	571.0
50°	3292.0	1368.3	585.0	507.1	532.9	597.9	601.1	586.1	580.7	576.4	574.8
52.5°	3591.2	1454.8	573.7	489.9	517.3	586.1	602.7	582.9	577.0	573.7	572.1
55°	3924.8	1562.7	556.5	475.4	504.4	571.0	602.7	578.0	571.6	572.1	571.6
57.5°	4375.5	1737.3	536.1	463.1	488.9	552.8	592.5	572.7	564.6	565.1	565.7
60°	5079.8	2045.1	511.4	450.7	469.5	531.3	578.6	560.8	552.8	554.9	555.5
62.5°	6115.5	2496.9	479.2	432.5	449.1	508.2	559.2	545.8	537.7	543.1	543.1
65°	7192.1	2895.5	439.4	409.4	427.6	482.9	535.1	527.0	518.9	531.3	530.8
67.5°	7481.7	2806.4	399.7	384.1	406.1	455.0	506.0	501.8	497.5	518.9	517.9
70°	6646.3	2253.0	363.2	358.3	382.5	424.9	474.9	474.9	472.2	488.3	484.6
72.5°	5063.7	1597.6	328.2	330.9	355.6	392.2	441.0	444.8	440.5	448.6	445.3
75°	2710.7	914.3	293.3	300.8	322.3	358.9	403.4	407.2	404.5	404.0	405.6
77.5°	900.9	447.0	256.8	268.6	287.4	324.5	364.2	370.1	363.7	362.6	362.1
80°	401.3	281.0	216.5	232.1	248.7	285.3	322.9	327.7	320.7	330.4	318.0
82.5°	257.9	184.8	173.5	190.7	206.8	246.0	281.5	282.6	276.1	320.7	273.4
85°	125.2	114.4	130.5	146.1	160.1	193.4	233.1	233.7	217.6	198.2	191.2
87.5°	62.3	66.6	87.0	101.0	108.0	132.7	169.8	166.5	159.6	145.0	133.8
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)