

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: P270228

Luminaire Tested: **GWC-AF-02-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270228
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-T2-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11618.8 lumens
Efficiency: N/A
Efficacy: 90.1 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

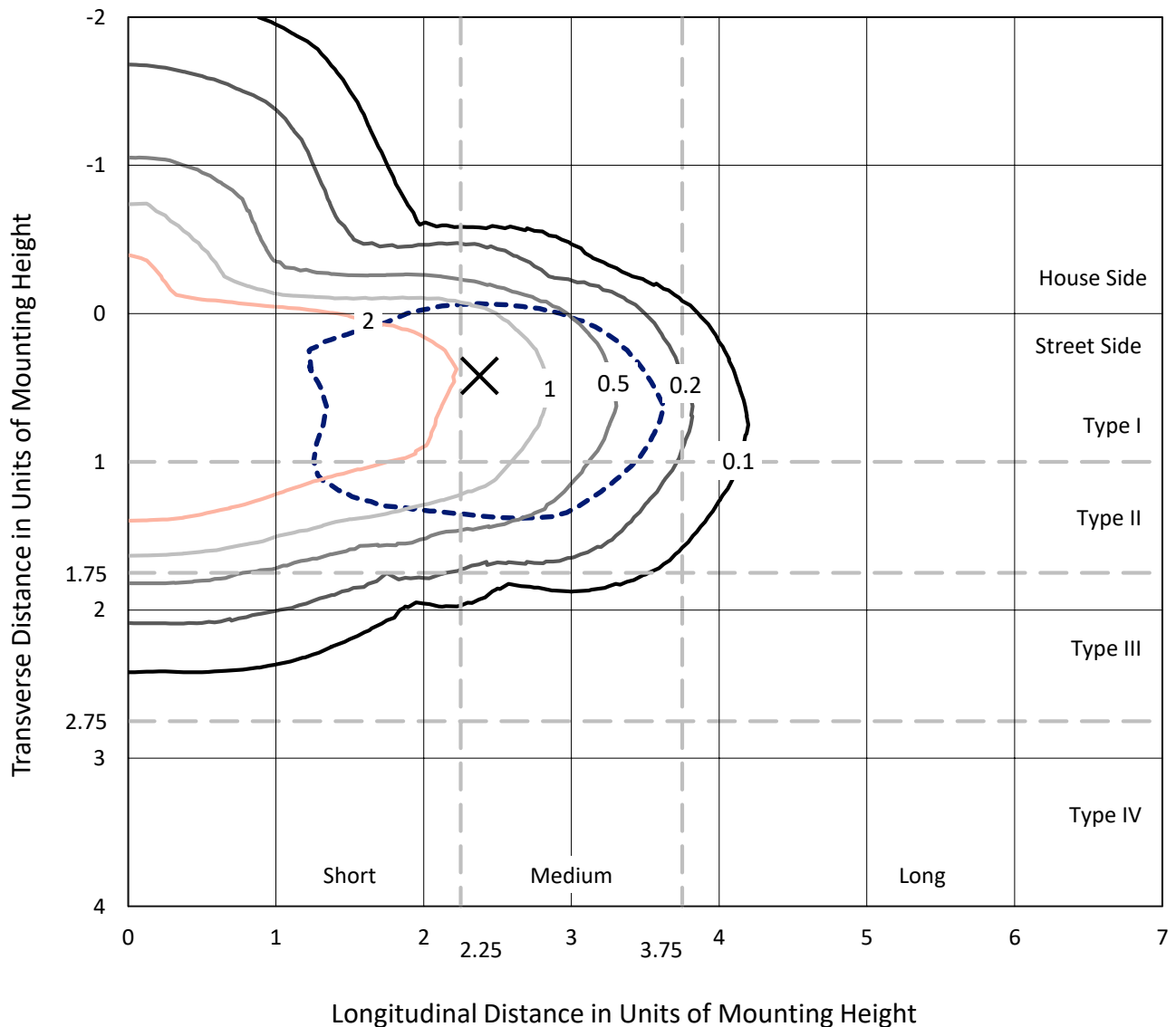
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

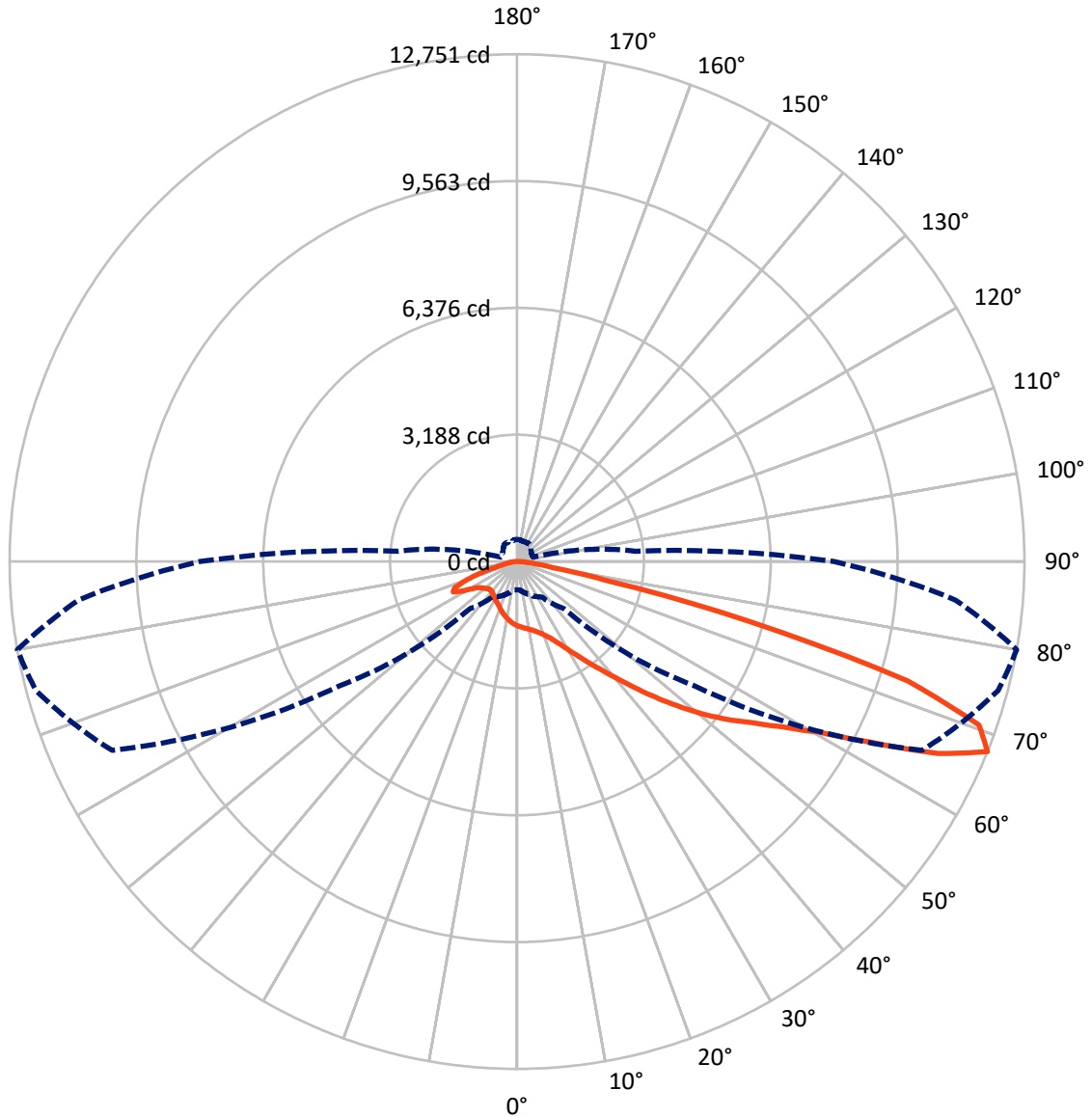
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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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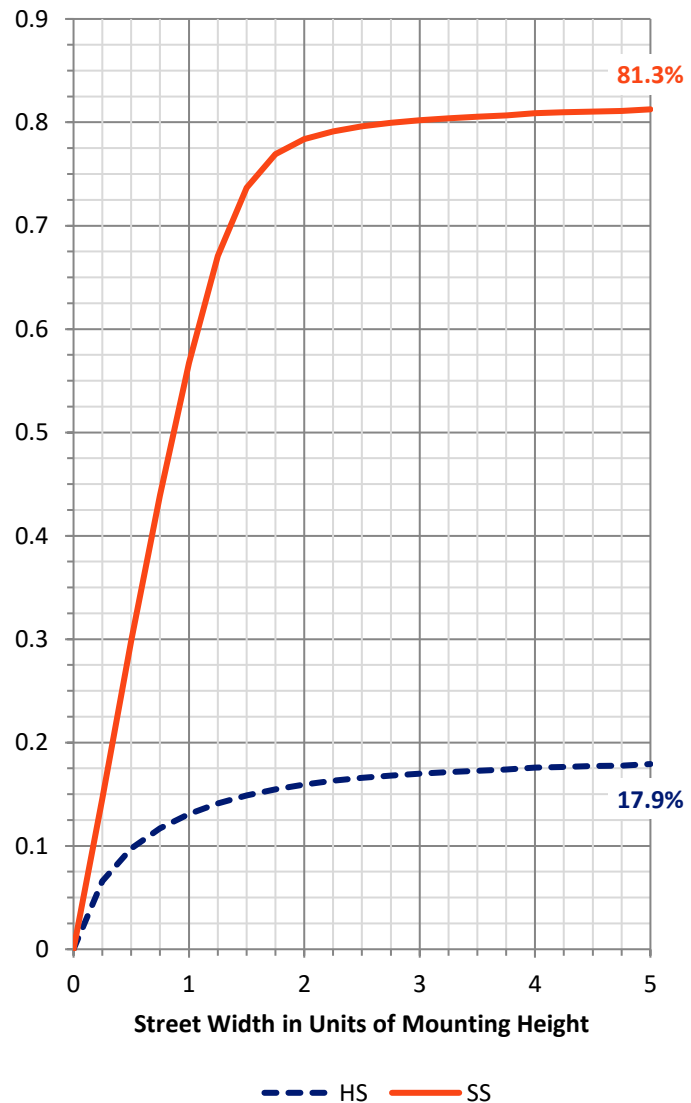
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2139.7	0.0	2139.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9479.1	0.0	9479.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	11618.8	0.0	11618.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.3
10°-20°	428.9	3.7
20°-30°	710.0	6.1
30°-40°	1161.4	10.0
40°-50°	1875.1	16.1
50°-60°	2707.1	23.3
60°-70°	2987.5	25.7
70°-80°	1377.1	11.9
80°-90°	222.7	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°	11618.8	100.0
0°-180°	11618.8	100.0



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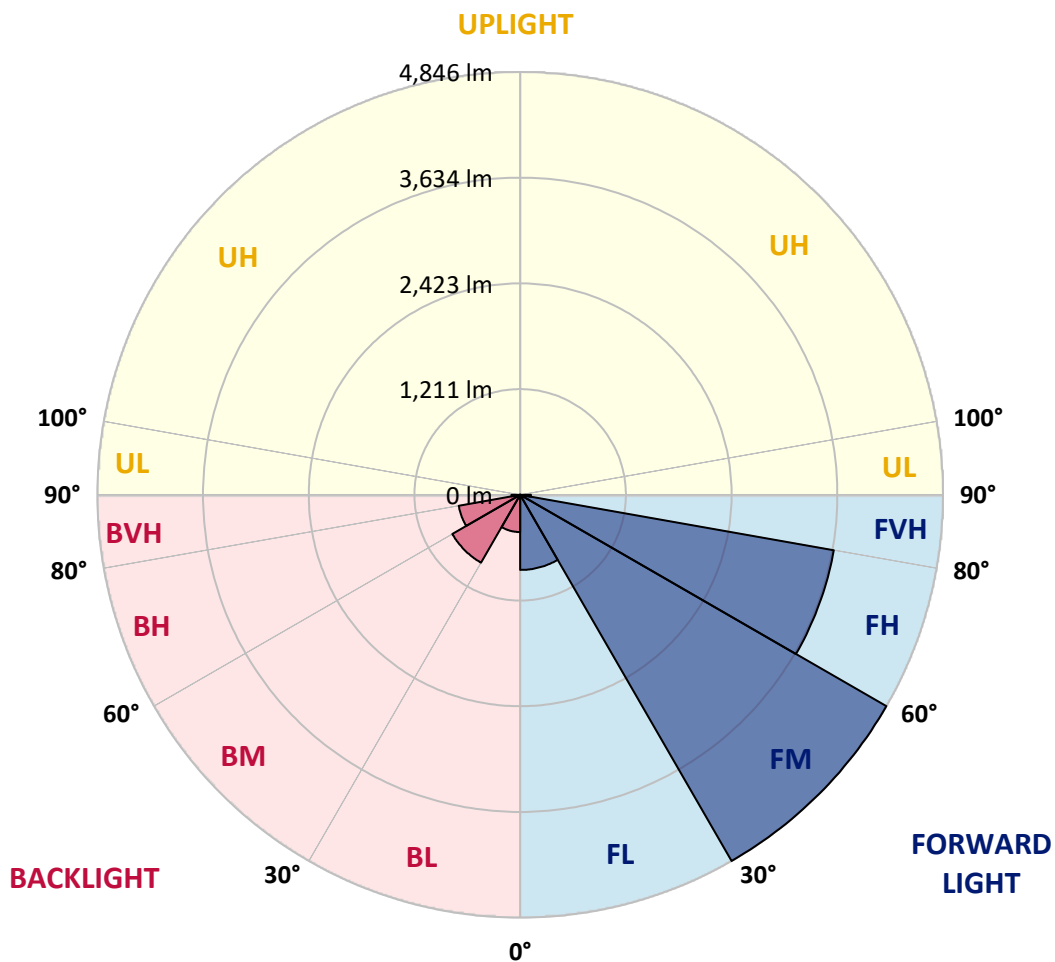
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.9	7.4			
FM	(30°-60°)	4845.9	41.7			
FH	(60°-80°)	3649.8	31.4			G2/5000
FVH	(80°-90°)	122.5	1.1			G2/225
BL	(0°-30°)	426.9	3.7	B1/500		
BM	(30°-60°)	897.7	7.7	B1/1000		
BH	(60°-80°)	714.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	100.3	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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1765.8	1755.5	1757.2	1754.3	1745.8	1730.9	1714.9	1685.7	1655.3	1639.3	1626.8
5°	1913.3	1910.4	1906.5	1897.3	1875.7	1844.7	1806.4	1754.8	1699.5	1670.3	1642.2
7.5°	2023.7	2022.1	2016.9	2011.1	1989.9	1952.8	1895.1	1821.9	1741.2	1701.1	1657.6
10°	2032.9	2035.7	2039.7	2055.2	2058.0	2038.1	1979.1	1890.5	1784.7	1733.2	1677.7
12.5°	1955.2	1961.4	1976.8	2016.2	2058.0	2082.7	2052.4	1962.5	1835.5	1773.3	1702.8
15°	1852.1	1855.5	1874.5	1928.8	2003.7	2079.8	2108.4	2042.0	1901.4	1824.6	1740.6
17.5°	1808.1	1809.8	1823.0	1859.0	1928.8	2037.4	2139.9	2128.4	1982.0	1888.7	1786.9
20°	1785.8	1789.9	1808.6	1844.1	1888.1	1983.1	2144.4	2221.7	2078.0	1968.8	1845.3
22.5°	1849.3	1847.5	1854.5	1872.2	1909.3	1966.5	2141.0	2317.7	2200.5	2071.9	1921.4
25°	1997.4	2003.7	1991.7	1971.7	1983.6	2023.7	2159.3	2421.8	2353.7	2203.9	2020.8
27.5°	2208.6	2202.3	2184.5	2137.5	2113.0	2130.2	2219.9	2533.9	2544.3	2377.9	2152.5
30°	2419.0	2413.8	2396.7	2339.5	2289.2	2274.9	2337.7	2662.7	2771.4	2586.6	2313.8
32.5°	2637.6	2631.8	2615.8	2558.6	2497.9	2464.8	2505.4	2811.3	3039.1	2835.9	2503.7
35°	2906.9	2896.0	2862.3	2782.8	2723.3	2697.6	2716.5	2998.5	3348.0	3131.1	2734.3
37.5°	3160.2	3176.9	3142.6	3032.8	2955.6	2946.4	2967.6	3226.6	3680.8	3461.2	2999.0
40°	3414.8	3417.7	3386.8	3297.0	3217.5	3202.6	3255.8	3503.5	4073.9	3855.9	3321.0
42.5°	3678.0	3683.7	3631.7	3548.7	3490.4	3493.1	3553.9	3827.9	4524.6	4320.8	3691.7
45°	3989.7	3998.3	3941.0	3832.3	3779.2	3886.2	3861.1	4191.6	5018.7	4849.4	4117.2
47.5°	4315.7	4328.9	4285.5	4183.5	4117.2	4264.3	4168.1	4594.9	5550.6	5416.3	4584.6
50°	4493.6	4512.5	4554.9	4547.4	4533.0	4508.6	4510.7	5027.4	6099.2	6006.5	5065.1
52.5°	4398.1	4397.6	4552.0	4739.5	4939.8	4954.7	4928.3	5483.3	6611.7	6583.8	5517.5
55°	3961.0	3990.8	4224.8	4588.1	5134.8	5476.3	5554.1	6005.3	7115.1	7147.8	5976.9
57.5°	3233.4	3258.2	3573.8	4080.1	4871.7	5786.3	6444.1	6764.4	7678.0	7830.2	6588.3
60°	2193.0	2222.8	2557.5	3165.4	4163.6	5613.6	7291.4	8119.1	8351.8	8697.8	7446.3
62.5°	1288.7	1315.6	1588.5	1996.8	2931.4	4811.1	7663.1	10046.0	9422.1	10007.2	8755.1
65°	887.2	905.5	1038.3	1243.0	1684.5	3240.4	7202.0	11376.6	11068.7	11629.4	10272.6
67.5°	713.9	711.5	816.7	956.3	1084.6	1670.8	5446.1	11226.1	12517.2	12751.0	11060.2
70°	588.0	585.8	657.2	772.8	866.5	941.0	2966.5	9473.4	12221.9	12316.9	10334.9
72.5°	491.9	494.2	540.1	625.8	711.0	708.8	1303.6	6664.3	9614.7	10271.4	8238.5
75°	415.2	416.5	446.7	507.4	577.2	570.9	707.0	3610.5	5589.1	6046.0	4566.9
77.5°	353.6	354.7	374.1	407.8	457.5	455.4	515.9	1559.8	2331.6	2302.8	1562.2
80°	315.1	315.1	324.3	330.7	358.1	347.7	382.7	749.4	985.6	910.1	623.5
82.5°	247.2	248.2	304.3	302.0	282.0	268.9	268.9	441.5	522.3	482.7	364.9
85°	139.0	138.3	196.2	236.9	248.2	189.4	187.7	247.2	284.3	250.5	176.7
87.5°	59.5	60.6	91.0	105.2	140.8	117.9	116.2	127.6	144.6	125.3	81.7
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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1614.8	1599.9	1567.4	1526.7	1490.1	1466.0	1444.4	1412.9	1414.6	1392.8	1376.8
5°	1613.6	1582.8	1507.3	1417.4	1331.1	1268.6	1221.8	1179.5	1169.1	1149.1	1137.2
7.5°	1614.8	1564.4	1437.5	1293.9	1186.9	1108.0	1067.9	1045.5	1040.4	1033.6	1034.2
10°	1618.7	1547.8	1360.8	1178.3	1066.2	1014.1	1004.5	1011.3	1019.2	1021.6	1022.2
12.5°	1627.9	1533.0	1276.8	1075.5	990.7	974.8	991.3	1014.7	1030.1	1037.6	1037.1
15°	1648.5	1521.5	1196.1	994.8	949.0	957.6	988.5	1021.6	1043.9	1054.3	1054.8
17.5°	1670.8	1504.9	1113.1	932.9	918.1	939.7	978.2	1017.1	1044.5	1055.9	1058.3
20°	1700.0	1484.3	1026.1	886.5	889.0	913.4	949.5	988.5	1018.8	1028.5	1033.1
22.5°	1738.3	1462.0	950.0	848.9	855.7	874.6	902.5	936.4	962.7	967.3	971.2
25°	1789.9	1437.9	889.4	814.6	817.4	828.2	847.1	867.1	885.5	880.2	884.3
27.5°	1859.0	1417.4	844.2	783.1	777.9	780.2	789.9	796.2	806.0	791.6	793.4
30°	1940.2	1395.1	809.5	755.7	741.3	737.2	739.7	743.0	750.4	731.0	728.2
32.5°	2034.7	1368.2	776.8	731.6	711.5	703.6	704.7	713.9	742.4	730.4	724.2
35°	2144.4	1337.9	742.4	705.3	691.5	680.0	678.9	707.5	792.8	785.4	779.5
37.5°	2273.2	1307.7	708.1	675.5	676.7	664.0	660.1	692.8	802.5	773.4	769.4
40°	2436.7	1291.6	678.9	644.1	658.4	656.7	648.7	665.3	738.4	685.2	678.4
42.5°	2639.2	1293.9	657.2	610.3	636.5	655.0	642.4	642.9	669.2	629.3	623.0
45°	2889.2	1320.8	641.7	583.4	612.0	653.2	640.0	630.9	633.2	612.0	608.6
47.5°	3180.9	1376.3	630.9	561.1	588.6	646.9	639.6	627.5	622.3	610.8	608.1
50°	3505.2	1457.0	623.0	540.1	567.4	636.5	640.0	624.1	618.4	613.7	612.0
52.5°	3823.8	1548.9	610.8	521.6	550.8	624.1	641.7	620.5	614.4	610.8	609.2
55°	4179.1	1663.9	592.6	506.3	537.0	608.1	641.7	615.5	608.6	609.2	608.6
57.5°	4659.0	1849.9	570.9	493.1	520.5	588.6	630.9	609.8	601.1	601.8	602.4
60°	5408.9	2177.6	544.6	480.0	499.9	565.8	616.1	597.2	588.6	590.8	591.4
62.5°	6511.6	2658.7	510.2	460.4	478.2	541.0	595.4	581.2	572.6	578.2	578.2
65°	7658.0	3083.2	467.8	435.9	455.4	514.2	569.7	561.1	552.5	565.8	565.2
67.5°	7966.3	2988.1	425.5	409.0	432.4	484.5	538.9	534.2	529.7	552.5	551.4
70°	7076.8	2399.0	386.7	381.5	407.2	452.4	505.7	505.7	502.8	519.9	515.9
72.5°	5391.6	1701.1	349.5	352.3	378.6	417.5	469.6	473.6	469.0	477.5	474.1
75°	2886.3	973.6	312.3	320.3	343.2	382.0	429.6	433.6	430.6	430.2	431.8
77.5°	959.2	475.9	273.4	286.0	306.1	345.5	387.8	394.0	387.3	386.1	385.6
80°	427.2	299.1	230.5	247.2	264.8	303.7	343.8	348.9	341.4	351.7	338.7
82.5°	274.5	196.8	184.7	203.0	220.3	261.9	299.8	300.8	294.0	341.4	291.1
85°	133.3	121.8	139.0	155.5	170.5	205.9	248.2	248.8	231.7	211.1	203.6
87.5°	66.4	71.0	92.6	107.5	115.0	141.3	180.7	177.3	169.9	154.5	142.4
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)