

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: P317896

Luminaire Tested: **GLEON-SA2D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11932 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

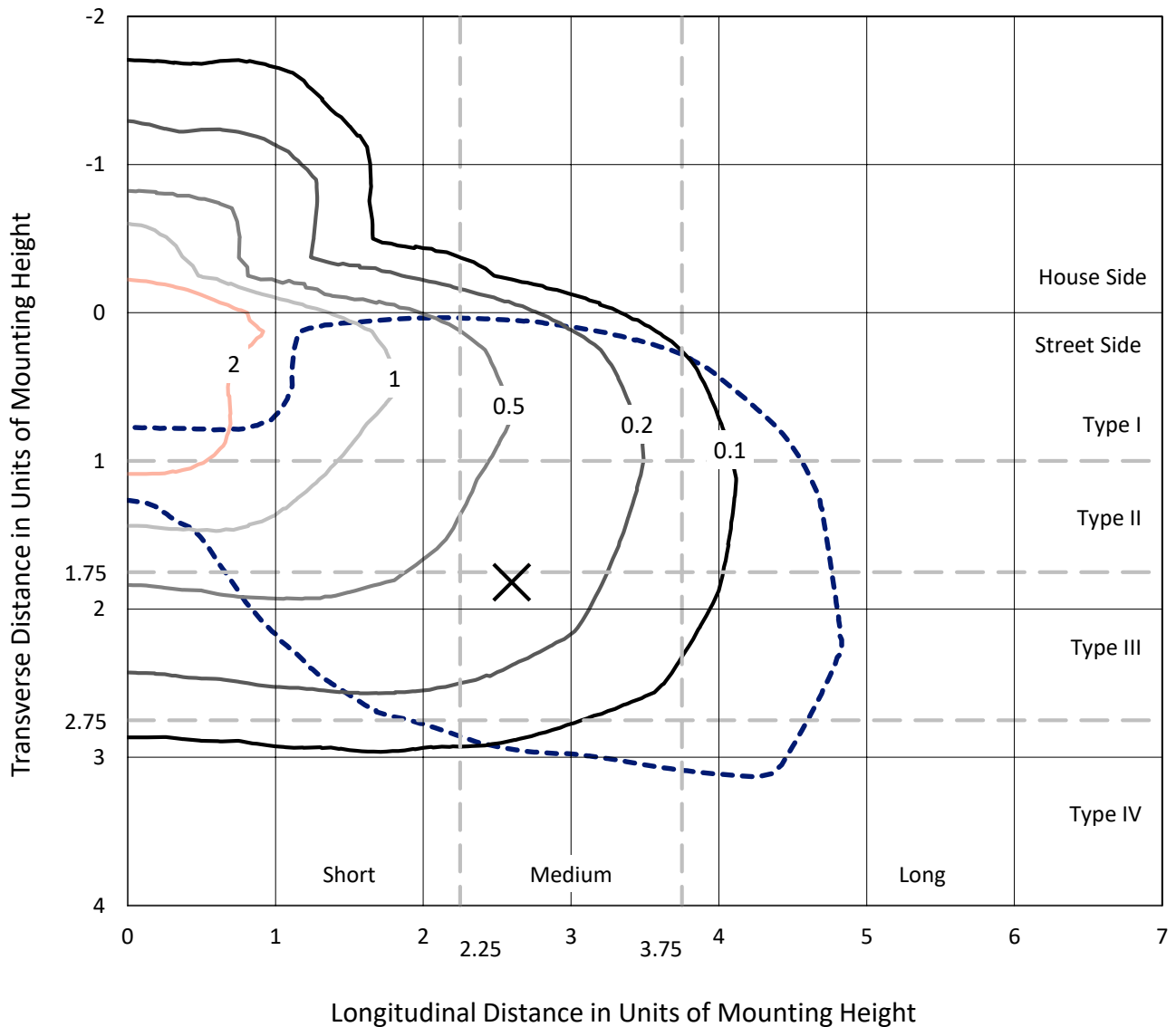
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

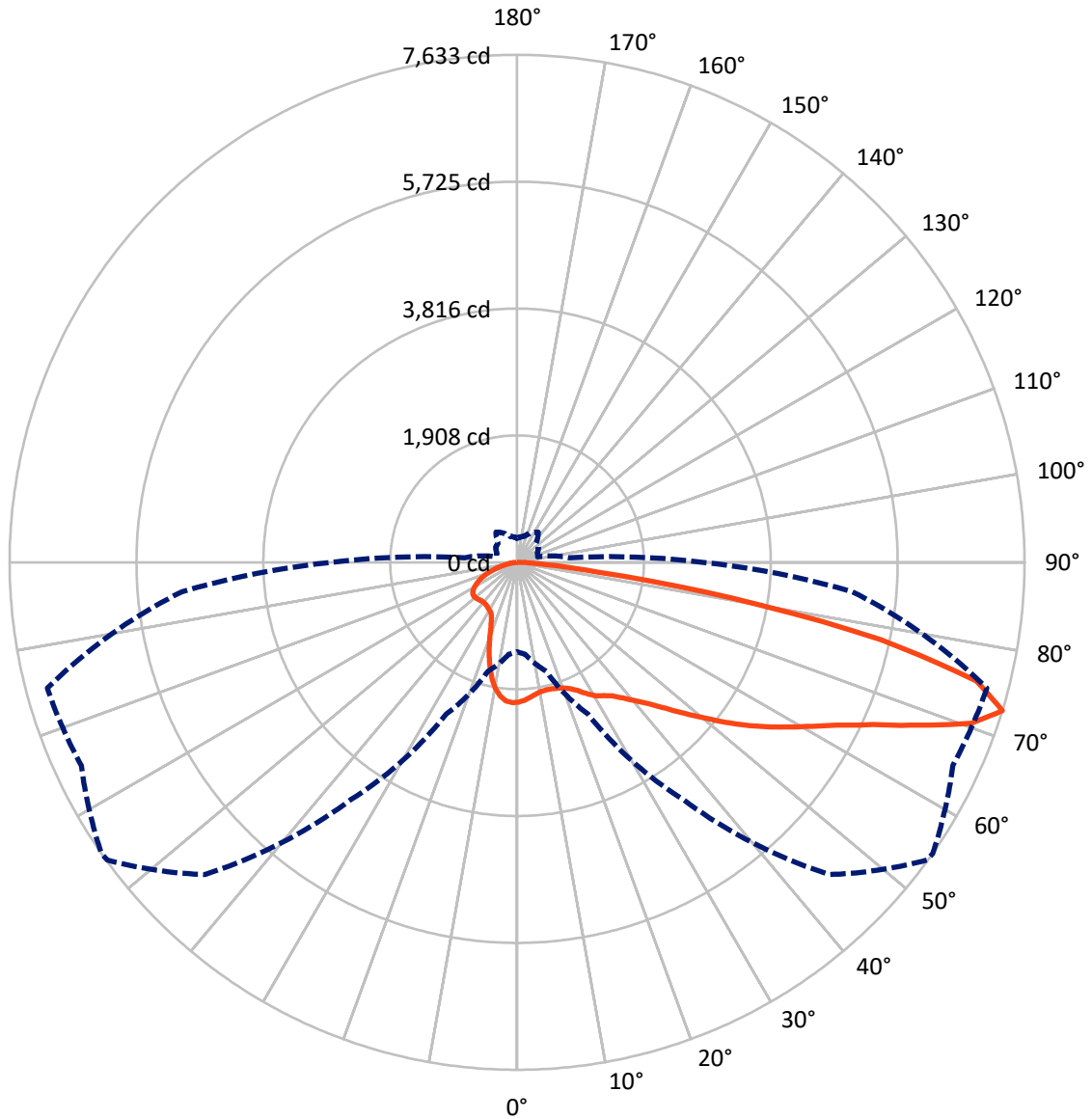
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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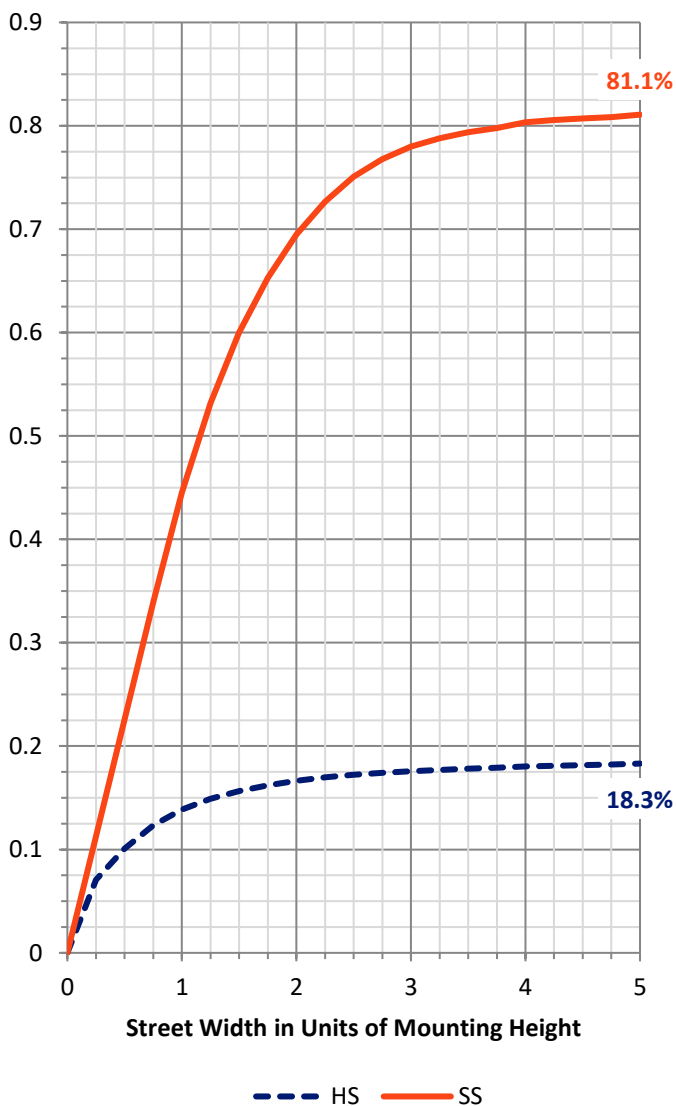
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.8	0.0	2217.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9714.2	0.0	9714.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	11932.0	0.0	11932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	1.6
10°-20°	507.0	4.2
20°-30°	835.9	7.0
30°-40°	1236.6	10.4
40°-50°	1726.0	14.5
50°-60°	2247.3	18.8
60°-70°	2761.8	23.1
70°-80°	2165.0	18.1
80°-90°	262.0	2.2
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°	11932.0	100.0
0°-180°	11932.0	100.0

Coefficient of Utilization

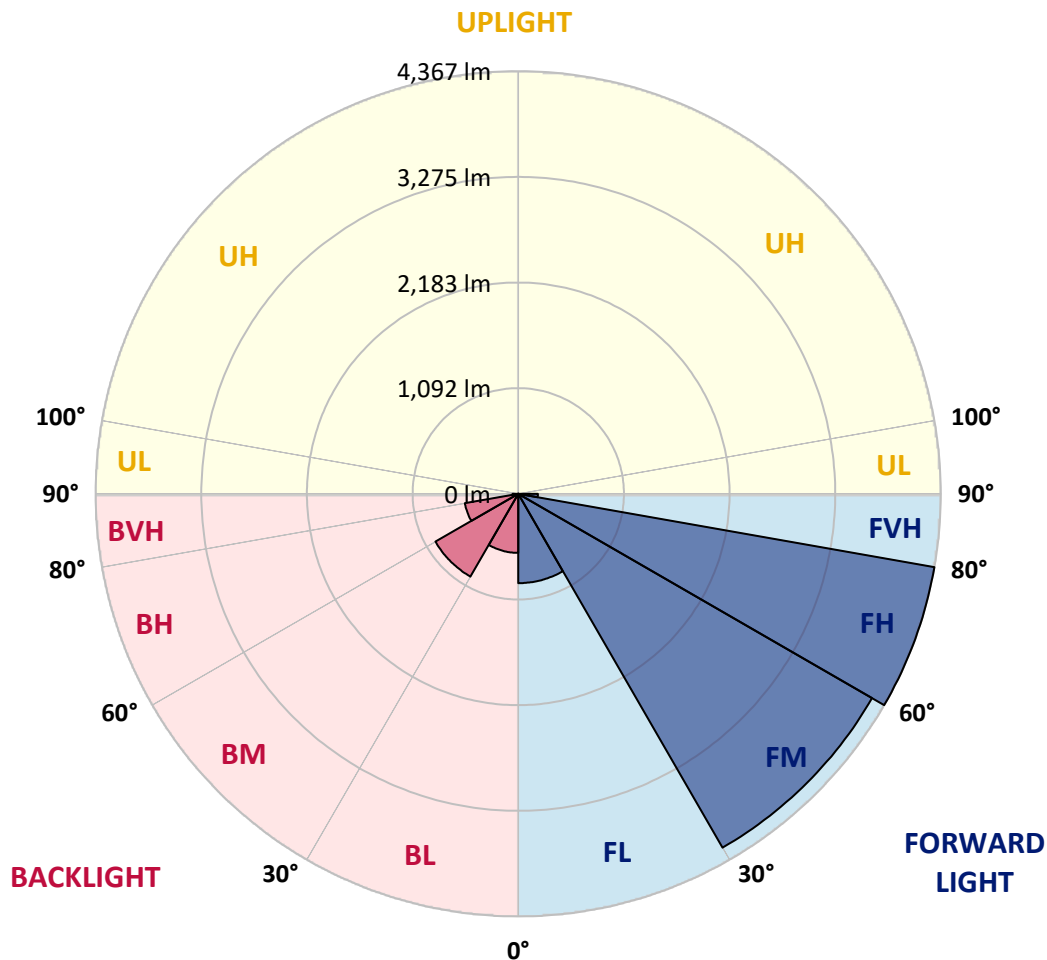


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.2	7.7			
FM (30°-60°)	4221.8	35.4			
FH (60°-80°)	4366.7	36.6			G2/5000
FVH (80°-90°)	202.6	1.7			G2/225
BL (0°-30°)	610.2	5.1	B2/1000		
BM (30°-60°)	988.1	8.3	B1/1000		
BH (60°-80°)	560.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	59.4	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5
2.5°	2036.0	2031.2	2037.2	2045.7	2055.0	2067.5	2074.7	2077.9	2090.4	2095.3	2105.8
5°	1941.7	1939.3	1949.4	1963.9	1984.4	2013.5	2036.8	2041.3	2074.3	2097.7	2119.1
7.5°	1873.2	1873.2	1884.9	1902.2	1925.2	1964.3	1997.3	2003.4	2059.4	2109.8	2149.3
10°	1818.8	1820.8	1834.5	1855.1	1882.1	1923.6	1967.5	1974.4	2055.4	2138.0	2200.9
12.5°	1782.5	1787.4	1799.9	1818.4	1851.9	1902.2	1957.9	1967.1	2063.8	2178.3	2262.9
15°	1805.5	1813.6	1814.8	1822.4	1841.0	1895.8	1963.5	1973.2	2082.0	2219.4	2333.5
17.5°	1906.3	1909.1	1896.6	1880.5	1871.6	1906.7	1980.4	1990.5	2103.7	2260.1	2401.2
20°	2059.4	2057.8	2030.8	1987.3	1942.1	1947.8	2008.2	2018.7	2133.2	2296.0	2468.9
22.5°	2252.9	2247.2	2205.7	2125.5	2048.5	2016.3	2057.0	2065.9	2177.5	2347.2	2541.4
25°	2487.4	2474.9	2420.1	2312.5	2199.3	2116.2	2130.3	2138.8	2242.0	2404.4	2607.9
27.5°	2734.9	2722.4	2652.6	2522.5	2371.7	2242.4	2231.5	2238.8	2315.3	2446.7	2657.1
30°	2993.6	2980.3	2916.6	2770.7	2554.7	2373.0	2325.8	2328.6	2366.9	2469.7	2697.4
32.5°	3253.5	3241.1	3169.7	3000.5	2753.4	2513.2	2393.9	2390.3	2397.9	2493.5	2742.9
35°	3517.1	3522.0	3438.5	3251.1	2973.4	2669.2	2474.5	2466.9	2449.9	2542.2	2807.4
37.5°	3799.2	3796.0	3688.0	3492.1	3203.6	2838.4	2590.2	2589.0	2530.5	2634.5	2908.6
40°	3987.8	3989.9	3924.2	3738.8	3436.1	3025.8	2738.5	2735.7	2659.1	2772.7	3041.2
42.5°	4061.6	4074.9	4091.8	3974.1	3679.5	3243.1	2915.4	2911.4	2838.4	2971.0	3197.1
45°	4066.8	4093.4	4198.2	4183.3	3926.2	3491.7	3141.5	3130.2	3077.8	3234.6	3383.3
47.5°	4021.7	4049.1	4223.2	4307.8	4146.6	3754.1	3405.9	3397.0	3351.9	3564.3	3584.8
50°	3923.0	3949.2	4171.6	4368.7	4328.0	4006.4	3710.6	3687.2	3663.0	3945.1	3815.3
52.5°	3738.0	3788.3	4102.7	4383.2	4436.4	4230.5	4031.0	4015.6	4028.9	4346.9	4046.3
55°	3299.9	3356.3	3925.0	4371.1	4516.6	4418.7	4351.4	4350.6	4419.5	4768.5	4294.1
57.5°	3054.5	3094.4	3563.1	4350.6	4611.7	4605.7	4668.5	4676.2	4810.4	5227.5	4553.7
60°	2915.8	2957.7	3379.7	4274.4	4759.2	4847.5	4992.2	5007.5	5207.8	5735.7	4866.0
62.5°	2789.7	2835.6	3266.0	4119.2	4932.9	5193.3	5379.9	5393.6	5628.5	6258.0	5167.9
65°	2574.1	2626.1	3099.6	4017.3	5090.9	5644.2	5872.7	5882.0	6111.7	6805.3	5398.8
67.5°	2269.4	2316.9	2785.6	3792.0	5207.8	6191.9	6528.0	6533.3	6590.9	7191.8	5516.9
70°	1913.5	1931.7	2338.3	3326.9	5069.5	6704.2	7246.2	7247.4	7027.8	7439.3	5497.5
72.5°	1344.5	1387.2	1697.5	2518.4	4356.6	6641.7	7619.0	7632.7	7230.9	7314.3	5058.3
75°	824.6	869.7	1064.8	1526.2	2763.9	5223.5	7039.5	7134.6	6850.1	6521.6	4132.1
77.5°	551.3	568.3	694.8	889.9	1252.2	3005.3	5412.1	5591.0	5690.6	4756.0	2642.6
80°	307.5	339.7	460.6	552.9	557.0	1194.1	3245.1	3287.0	3166.1	1893.8	815.3
82.5°	162.8	180.6	307.5	324.8	303.9	399.8	1209.5	1210.7	1011.6	507.8	242.2
85°	126.1	141.1	210.8	198.3	155.2	177.3	399.0	420.7	344.2	208.0	79.0
87.5°	62.9	78.2	143.1	125.7	60.9	50.8	142.7	152.3	135.8	81.4	28.6
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°	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5	2104.5
2.5°	2109.8	2113.4	2117.8	2113.0	2111.4	2105.0	2094.1	2091.7	2086.0	2086.4	2089.6
5°	2128.3	2134.4	2132.0	2113.4	2091.2	2060.2	2028.0	2000.6	1982.4	1981.2	1980.0
7.5°	2163.8	2167.8	2148.9	2096.1	2034.0	1962.3	1894.6	1835.3	1799.5	1790.6	1788.6
10°	2219.4	2218.6	2166.6	2060.2	1936.5	1808.3	1699.5	1617.3	1569.3	1555.2	1551.6
12.5°	2281.5	2272.2	2172.7	1994.9	1798.7	1620.9	1483.1	1391.6	1341.6	1325.5	1321.5
15°	2345.6	2322.6	2157.7	1897.4	1629.4	1419.0	1274.3	1189.7	1162.7	1153.8	1152.2
17.5°	2405.2	2360.9	2115.0	1765.2	1436.3	1217.9	1105.1	1071.2	1077.7	1089.4	1089.8
20°	2463.6	2386.7	2046.5	1598.4	1232.8	1052.3	1014.0	1039.0	1069.6	1093.4	1096.6
22.5°	2521.3	2404.8	1958.3	1405.7	1050.7	959.2	986.2	1031.7	1066.8	1092.6	1097.0
25°	2569.6	2409.2	1836.5	1200.2	924.1	924.1	972.9	1016.0	1050.7	1076.1	1080.5
27.5°	2587.4	2379.4	1664.9	1010.0	860.4	908.0	954.3	990.2	1019.6	1046.6	1051.5
30°	2594.2	2324.2	1466.6	857.2	834.2	890.7	929.4	960.0	987.8	1013.2	1017.6
32.5°	2595.4	2257.7	1256.2	770.6	816.1	872.5	898.3	925.3	955.1	965.2	966.8
35°	2603.1	2179.1	1034.5	726.2	799.2	855.6	876.2	895.5	847.1	850.8	854.0
37.5°	2625.2	2101.3	849.2	701.2	788.3	846.7	871.3	801.2	763.3	754.4	753.2
40°	2666.8	2018.3	711.7	681.1	784.3	851.2	840.3	748.0	682.7	633.9	626.7
42.5°	2724.4	1928.8	623.9	667.8	787.1	872.5	797.2	696.8	588.4	557.0	552.9
45°	2789.3	1834.9	576.3	658.5	796.8	889.1	788.3	628.7	544.5	520.7	518.7
47.5°	2852.1	1720.1	551.7	654.5	810.1	875.8	750.8	607.7	523.5	511.0	512.2
50°	2924.3	1616.5	536.8	650.1	821.7	867.3	708.5	596.9	515.5	530.8	546.9
52.5°	2985.1	1509.3	523.5	641.2	826.2	852.4	697.6	598.9	515.5	544.9	560.2
55°	3057.3	1428.3	508.2	622.7	817.7	810.1	690.0	611.0	521.5	503.0	504.6
57.5°	3150.4	1401.7	491.3	593.6	789.5	748.4	686.3	622.7	517.9	506.2	510.2
60°	3279.3	1429.9	484.4	555.8	745.6	700.0	686.7	616.6	492.5	472.3	472.7
62.5°	3402.3	1461.3	484.0	532.0	691.6	656.9	677.5	596.9	479.6	467.9	472.3
65°	3442.6	1429.5	464.7	505.4	630.7	605.3	660.5	575.9	469.9	452.2	451.4
67.5°	3388.6	1330.8	425.6	462.3	561.0	545.3	638.4	550.9	454.6	440.1	437.7
70°	3228.2	1110.3	377.2	405.4	481.6	477.6	603.3	521.9	434.0	421.6	411.1
72.5°	2796.5	791.1	318.0	337.3	392.1	405.0	555.0	484.0	405.0	378.0	361.9
75°	2296.8	585.6	261.2	265.2	297.8	332.9	488.5	439.7	370.8	324.8	312.3
77.5°	1406.5	358.3	208.0	209.6	213.6	265.6	402.2	390.1	327.2	270.8	262.0
80°	455.4	195.5	150.3	158.0	145.9	194.7	311.1	332.1	280.9	226.5	216.8
82.5°	173.3	114.1	101.6	106.8	101.2	130.6	226.9	266.0	230.1	186.2	151.5
85°	83.8	64.5	60.0	67.3	62.5	66.9	145.1	195.9	174.5	121.3	112.8
87.5°	29.8	28.6	23.0	31.0	26.6	23.8	44.3	98.7	115.3	83.4	74.6
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)