

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: P317562

Luminaire Tested: **GLEON-SA8B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35075 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

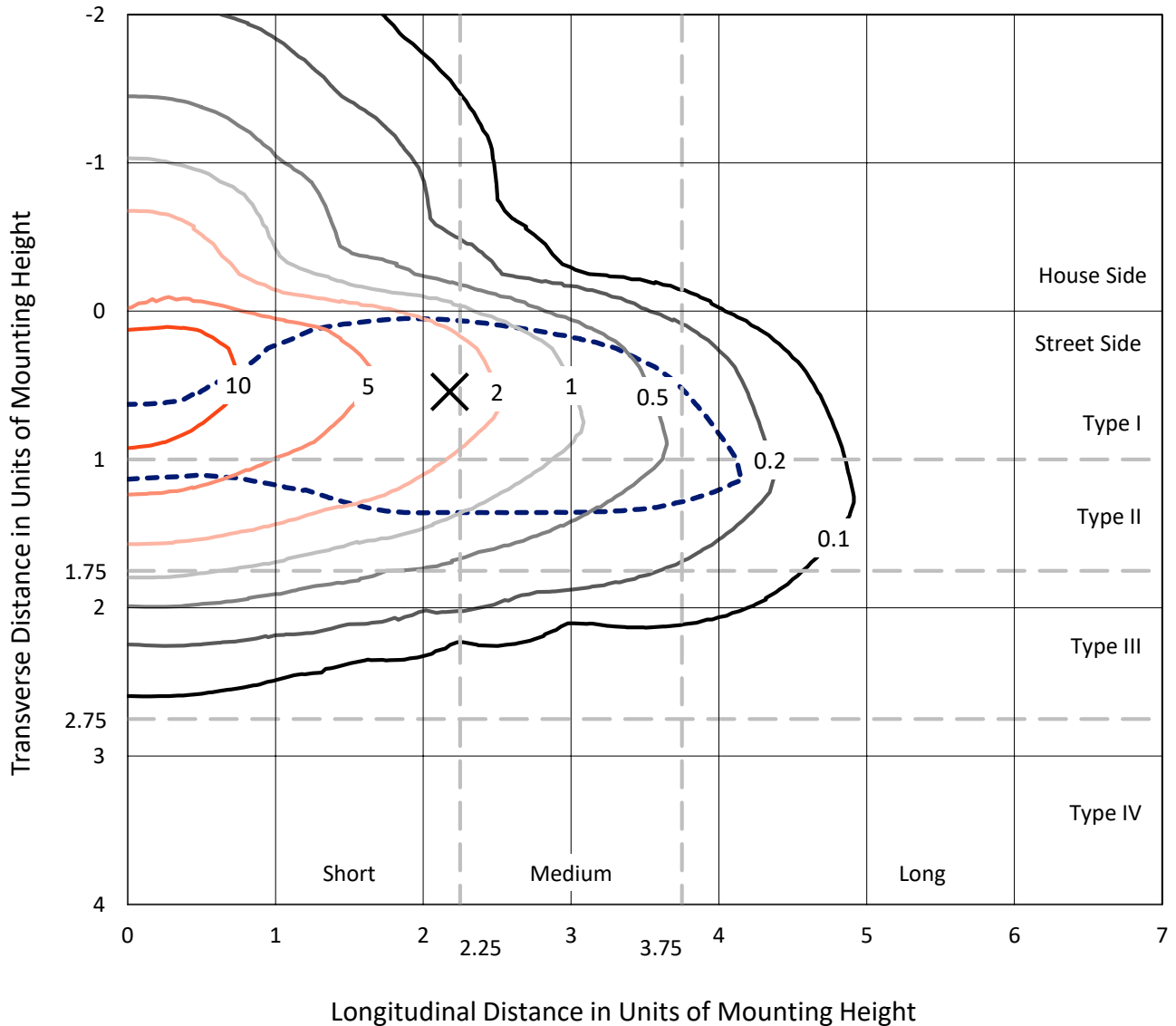
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

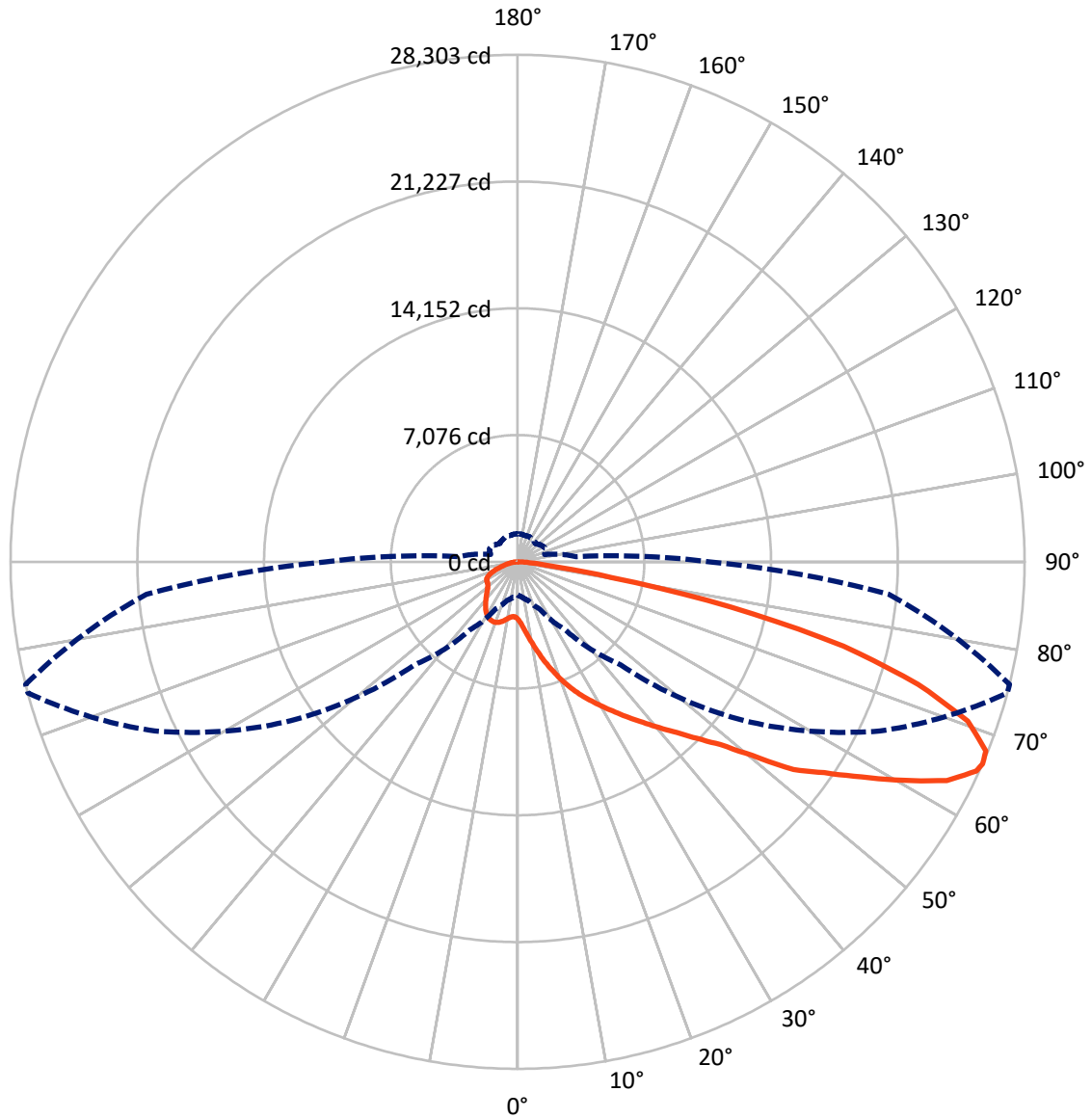
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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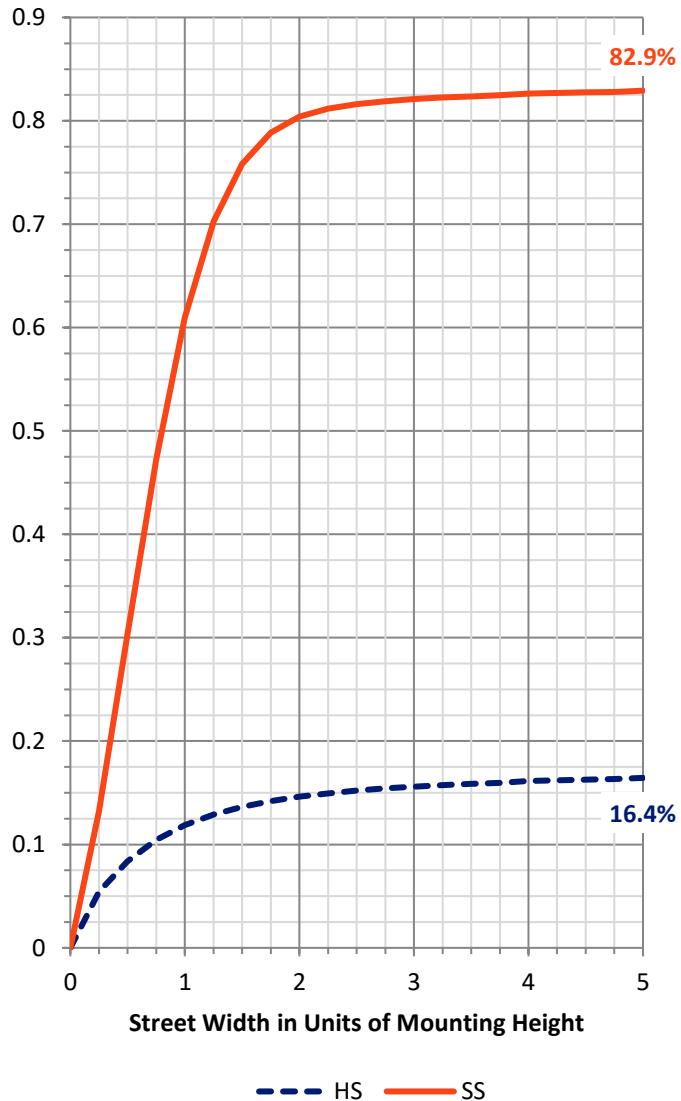
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5901.9	0.0	5901.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29173.1	0.0	29173.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	35075.0	0.0	35075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.3	1.1
10°-20°	1529.6	4.4
20°-30°	2972.4	8.5
30°-40°	4851.6	13.8
40°-50°	6628.5	18.9
50°-60°	7720.8	22.0
60°-70°	6921.9	19.7
70°-80°	3498.0	10.0
80°-90°	564.9	1.6
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°	35075.0	100.0
0°-180°	35075.0	100.0

Coefficient of Utilization



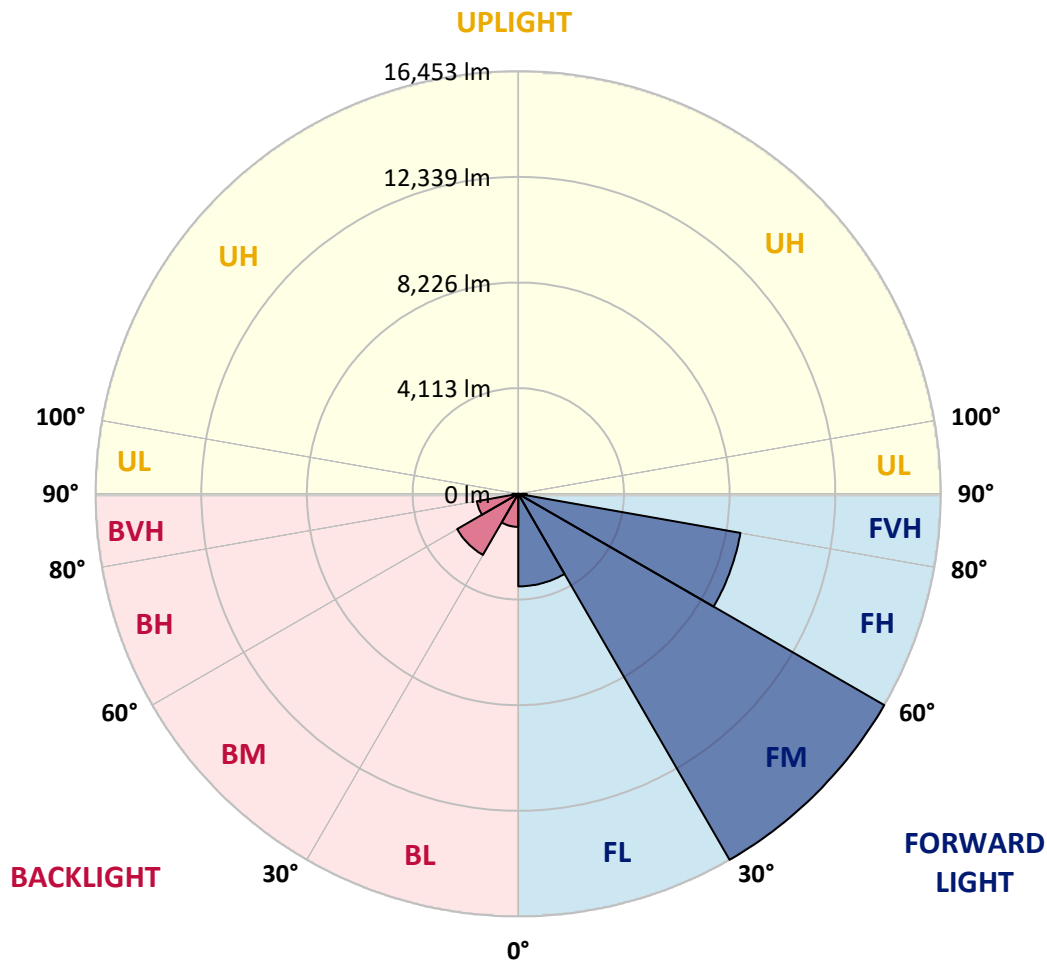
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3602.1	10.3			
FM (30°-60°)	16452.6	46.9			
FH (60°-80°)	8784.8	25.0			G4/12000
FVH (80°-90°)	333.6	1.0			G3/500
BL (0°-30°)	1287.2	3.7	B3/2500		
BM (30°-60°)	2748.3	7.8	B3/5000		
BH (60°-80°)	1635.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	231.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1
2.5°	4252.2	4187.9	4181.9	4087.9	4066.4	3886.6	3754.5	3616.3	3459.2	3428.2	3304.4
5°	5462.0	5456.1	5373.9	5220.3	5100.0	4792.8	4489.2	4167.7	3815.2	3758.0	3479.4
7.5°	6550.4	6540.8	6477.7	6312.2	6138.4	5760.9	5327.5	4834.5	4262.9	4178.4	3716.4
10°	7376.7	7373.2	7351.7	7230.3	7082.6	6720.6	6242.0	5569.2	4783.3	4667.8	4012.9
12.5°	8015.0	8022.1	8036.4	7993.6	7923.3	7614.9	7124.3	6347.9	5338.2	5223.9	4342.7
15°	8447.2	8468.7	8542.5	8603.2	8640.1	8450.8	7975.7	7144.5	5959.7	5822.8	4708.3
17.5°	8665.1	8689.0	8816.4	8999.7	9168.8	9149.8	8772.3	7904.3	6556.3	6424.1	5101.2
20°	8853.3	8871.1	9014.0	9234.3	9533.2	9665.4	9453.4	8635.4	7210.0	7052.9	5518.0
22.5°	9398.7	9421.3	9464.1	9589.2	9853.5	10096.4	9994.0	9327.2	7809.0	7662.5	5913.3
25°	10451.3	10478.7	10385.8	10279.8	10329.8	10498.9	10518.0	9958.3	8416.3	8250.8	6338.4
27.5°	11719.4	11758.7	11600.4	11327.7	11089.5	11024.0	11001.4	10475.1	8996.2	8804.5	6758.7
30°	12961.4	13029.3	12823.3	12469.6	12032.6	11725.4	11498.0	10981.2	9567.7	9384.4	7155.3
32.5°	14174.8	14147.4	13848.5	13503.2	12991.2	12606.6	12056.4	11524.2	10210.7	10000.0	7549.4
35°	15005.9	15015.5	14738.0	14328.4	13840.2	13544.9	12804.2	12110.0	10866.9	10672.8	7997.1
37.5°	15713.2	15669.2	15354.8	14972.6	14552.3	14426.0	13679.4	12755.4	11577.7	11365.8	8473.4
40°	15949.0	15897.8	15691.8	15416.7	15079.8	15069.0	14645.1	13486.5	12381.5	12171.9	9010.5
42.5°	15806.1	15740.6	15656.1	15581.1	15477.5	15525.1	15552.5	14343.9	13265.0	13030.5	9632.0
45°	15278.6	15179.8	15239.3	15402.5	15627.5	15896.6	16371.7	15292.9	14254.6	14058.1	10362.0
47.5°	14467.7	14378.4	14564.2	14913.1	15525.1	16206.2	17146.9	16340.8	15435.8	15240.5	11401.5
50°	13327.0	13353.2	13618.7	14253.4	15178.6	16349.1	18101.9	17728.0	17152.9	16970.7	12819.7
52.5°	11455.1	11459.9	12207.6	13249.6	14564.2	16275.3	18631.8	19501.0	19497.5	19277.2	14170.0
55°	9716.6	9822.6	10414.4	11799.2	13568.7	15980.0	19002.1	20363.1	21037.1	20778.7	15428.6
57.5°	8018.6	8080.5	8641.3	10032.1	12148.1	15192.9	19382.0	21397.9	22811.3	22648.2	16993.3
60°	6087.2	6182.4	6762.3	8047.1	10331.0	13796.1	19417.7	22477.9	24932.1	24767.8	18740.1
62.5°	3950.9	4115.3	4658.2	5862.1	8132.9	11787.3	18588.9	23184.1	26942.1	26883.7	20290.5
65°	2270.8	2394.6	2772.1	3700.9	5610.9	9265.3	16618.2	22912.6	28179.3	28145.9	20870.4
66°	1855.2	1932.6	2222.0	2892.4	4629.7	8136.4	15472.7	22339.8	28301.9	28303.1	20803.7
67.5°	1483.7	1518.2	1648.0	2070.7	3416.3	6449.1	13425.8	21076.4	28149.5	28191.2	20373.9
70°	1227.7	1245.5	1286.0	1388.4	1864.7	3889.0	9529.6	17793.5	26619.4	26651.5	18696.1
72.5°	1101.5	1112.2	1127.6	1141.9	1315.8	2173.1	5820.4	14234.3	23338.9	23380.5	16139.5
75°	997.9	1003.8	1001.4	1002.6	1103.8	1384.9	3007.9	10627.5	18871.1	18787.8	12363.6
77.5°	876.4	882.4	870.4	872.8	976.4	1064.5	1496.8	7439.9	12735.2	12146.9	6965.9
80°	740.7	745.4	740.7	749.0	850.2	803.8	870.4	4185.5	5631.1	5326.3	2476.8
82.5°	559.7	579.9	594.2	627.5	700.2	571.6	582.3	1630.1	1714.7	1632.5	759.7
85°	245.3	298.9	447.7	479.9	526.3	342.9	382.2	664.4	697.8	676.4	276.3
87.5°	64.3	70.3	221.5	278.6	291.7	154.8	198.9	302.5	319.1	302.5	91.7
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°	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1	3203.1
2.5°	3238.9	3180.5	3075.7	2982.8	2912.6	2865.0	2817.3	2793.5	2779.2	2764.9	2767.3
5°	3342.5	3224.6	3044.8	2917.4	2845.9	2800.7	2776.8	2767.3	2761.4	2747.1	2747.1
7.5°	3498.4	3331.7	3084.1	2953.1	2897.1	2862.6	2848.3	2843.5	2836.4	2819.7	2822.1
10°	3694.9	3461.5	3166.2	3038.8	2987.6	2949.5	2929.3	2922.1	2909.0	2890.0	2892.4
12.5°	3925.9	3622.3	3274.6	3141.2	3079.3	3028.1	2994.8	2974.5	2951.9	2926.9	2928.1
15°	4178.4	3797.3	3391.3	3232.9	3148.4	3076.9	3023.3	2988.8	2953.1	2922.1	2920.9
17.5°	4434.4	3966.4	3480.6	3282.9	3168.6	3074.5	3001.9	2948.3	2904.3	2866.2	2862.6
20°	4710.6	4118.8	3530.6	3278.2	3130.5	3018.6	2922.1	2855.4	2806.6	2768.5	2762.6
22.5°	4991.7	4261.7	3538.9	3229.3	3046.0	2909.0	2807.8	2734.0	2684.0	2644.7	2630.4
25°	5248.9	4372.5	3504.4	3135.3	2928.1	2780.4	2681.6	2606.6	2566.1	2519.6	2505.4
27.5°	5483.4	4449.9	3435.3	3015.0	2795.9	2650.6	2557.7	2493.4	2449.4	2413.7	2401.8
30°	5694.2	4491.5	3322.2	2872.1	2660.2	2528.0	2449.4	2405.3	2367.2	2322.0	2313.6
32.5°	5894.3	4491.5	3176.9	2716.1	2525.6	2419.6	2373.2	2345.8	2302.9	2258.9	2247.0
35°	6094.3	4464.2	3005.5	2553.0	2401.8	2342.2	2339.8	2307.7	2242.2	2182.7	2167.2
37.5°	6305.1	4408.2	2812.6	2400.6	2300.5	2307.7	2327.9	2256.5	2163.6	2079.1	2056.4
40°	6543.2	4330.8	2612.5	2268.4	2216.0	2292.2	2295.8	2182.7	2001.7	1924.3	1904.0
42.5°	6823.0	4253.4	2426.8	2151.7	2149.3	2245.8	2235.1	2023.1	1914.7	1875.4	1864.7
45°	7191.0	4209.3	2250.5	2041.0	2096.9	2170.8	2131.5	1935.0	1889.7	1867.1	1857.6
47.5°	7770.9	4232.0	2088.6	1952.8	2044.5	2095.7	1938.6	1899.3	1867.1	1839.7	1830.2
50°	8497.2	4218.9	1957.6	1892.1	1985.0	2017.1	1851.6	1852.8	1836.1	1805.2	1790.9
52.5°	9043.8	4116.4	1873.1	1857.6	1932.6	1877.8	1796.9	1807.6	1799.2	1754.0	1738.5
55°	9571.3	4028.3	1830.2	1844.5	1894.5	1704.0	1732.6	1758.7	1750.4	1706.4	1699.2
57.5°	10227.4	4011.7	1804.0	1848.1	1862.3	1617.0	1670.6	1705.2	1699.2	1680.2	1676.6
60°	11031.2	4016.4	1780.2	1854.0	1826.6	1552.7	1612.3	1656.3	1659.9	1656.3	1654.0
62.5°	11473.0	3886.6	1720.6	1837.3	1763.5	1496.8	1551.6	1615.9	1617.0	1624.2	1623.0
65°	11097.9	3498.4	1609.9	1779.0	1657.5	1450.3	1499.2	1569.4	1551.6	1583.7	1583.7
66°	10733.5	3274.6	1555.1	1740.9	1612.3	1432.5	1482.5	1545.6	1523.0	1567.0	1567.0
67.5°	9989.3	2897.1	1456.3	1659.9	1548.0	1407.5	1463.4	1506.3	1475.3	1540.8	1536.1
70°	8629.4	2241.0	1257.4	1476.5	1442.0	1370.6	1437.2	1427.7	1382.5	1482.5	1463.4
72.5°	7275.5	1702.8	1009.8	1236.0	1281.3	1324.1	1400.3	1327.7	1270.5	1340.8	1299.1
75°	5645.4	1280.1	797.8	960.9	1082.4	1251.5	1356.3	1212.2	1130.0	1122.9	1100.3
77.5°	3051.9	878.8	632.3	733.5	859.7	1161.0	1326.5	1088.4	964.5	935.9	918.1
80°	1208.6	571.6	459.6	556.1	601.3	1030.0	1255.1	944.3	795.4	766.8	739.5
82.5°	498.9	338.2	296.5	372.7	391.8	881.2	1126.5	774.0	614.4	850.2	902.6
85°	214.3	185.8	176.2	192.9	221.5	618.0	896.6	590.6	663.3	591.8	470.3
87.5°	64.3	78.6	75.0	73.8	81.0	147.7	477.5	328.6	487.0	184.6	138.1
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)