

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: P383401

Luminaire Tested: **GLEON-SA7A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383401
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-SA7A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31990.3 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

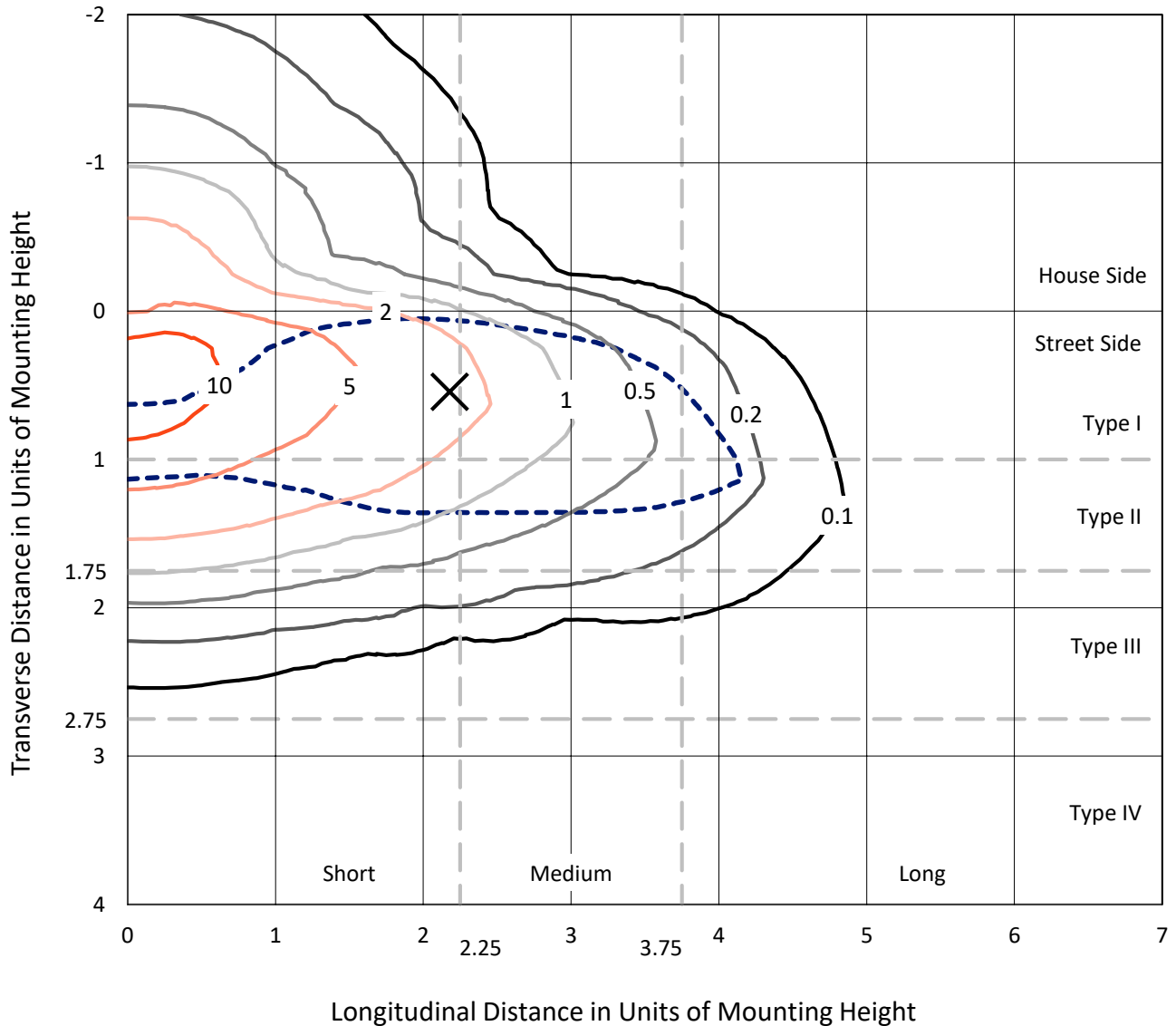
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383401
 CATALOG NUMBER: GLEON-SA7A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

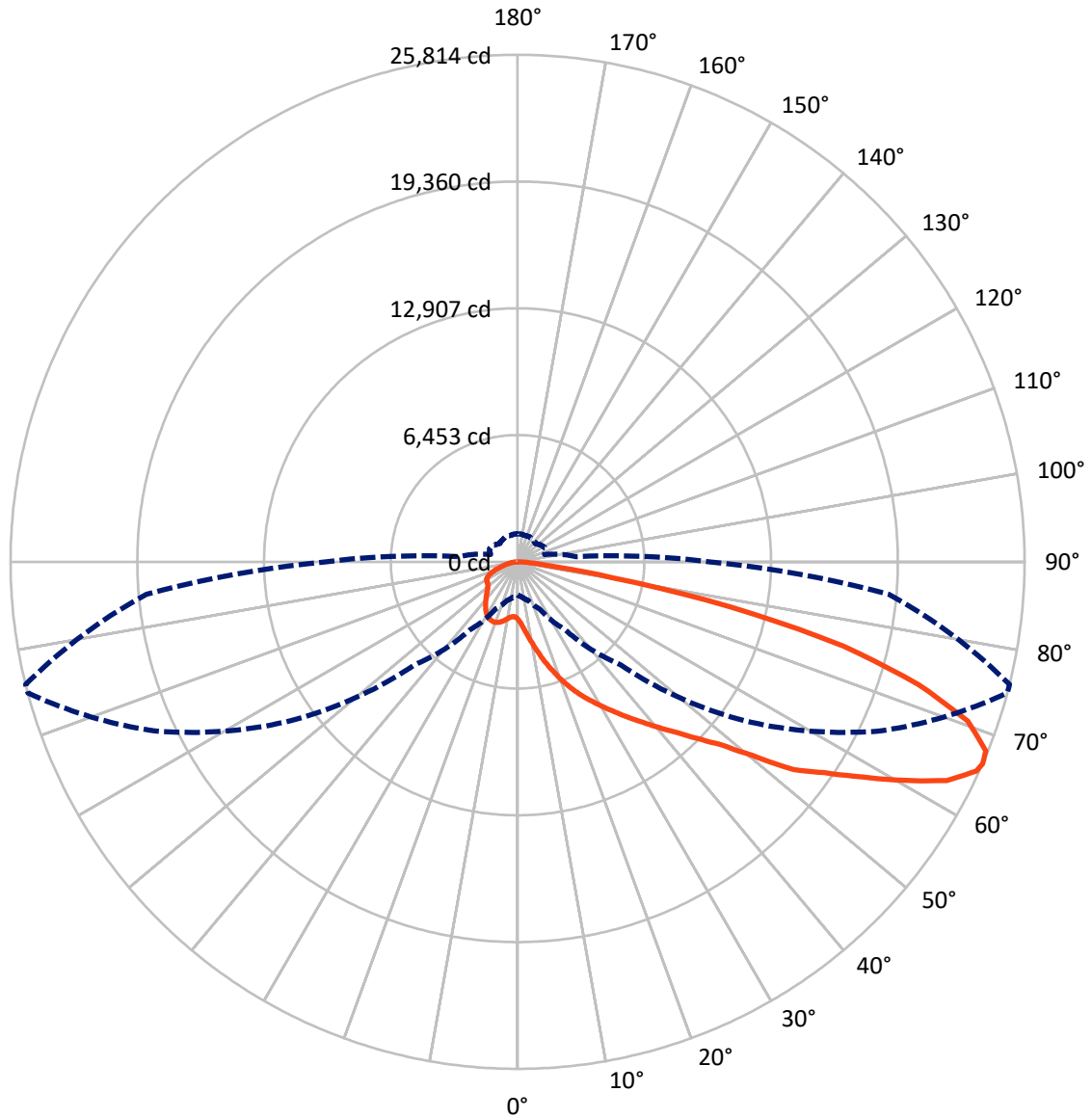
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P383401
CATALOG NUMBER: GLEON-SA7A-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383401
 CATALOG NUMBER: GLEON-SA7A-735-U-T2R

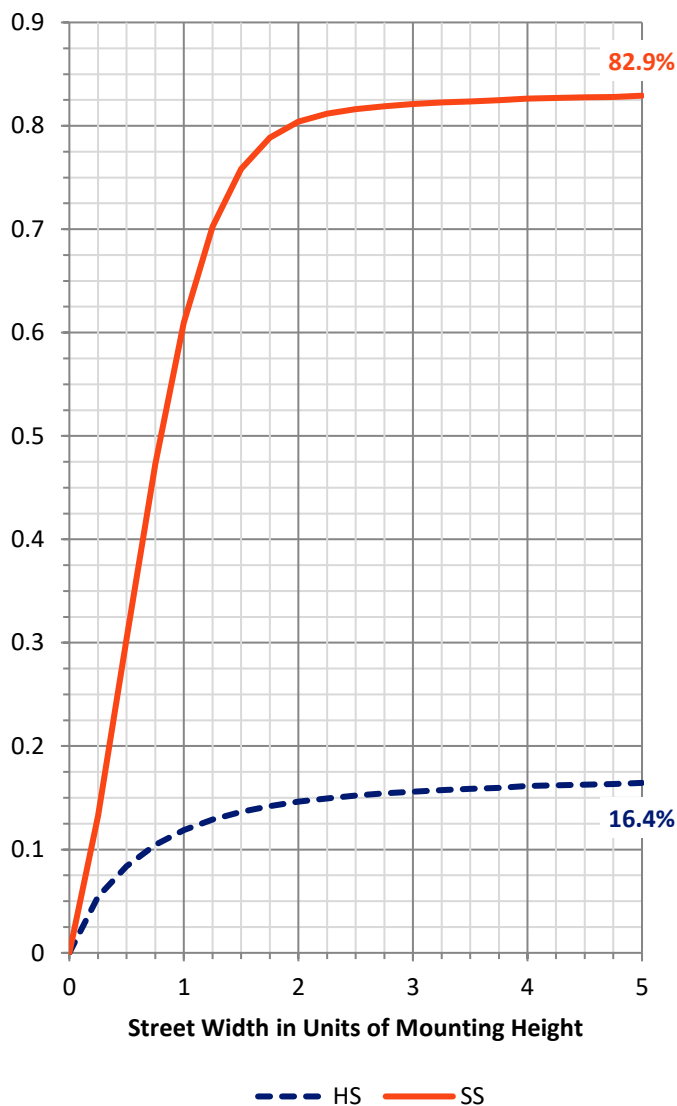
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5382.9	0.0	5382.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	26607.4	0.0	26607.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	31990.3	0.0	31990.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	1.1
10°-20°	1395.1	4.4
20°-30°	2711.0	8.5
30°-40°	4424.9	13.8
40°-50°	6045.5	18.9
50°-60°	7041.8	22.0
60°-70°	6313.1	19.7
70°-80°	3190.4	10.0
80°-90°	515.2	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°	31990.3	100.0
0°-180°	31990.3	100.0

Coefficient of Utilization



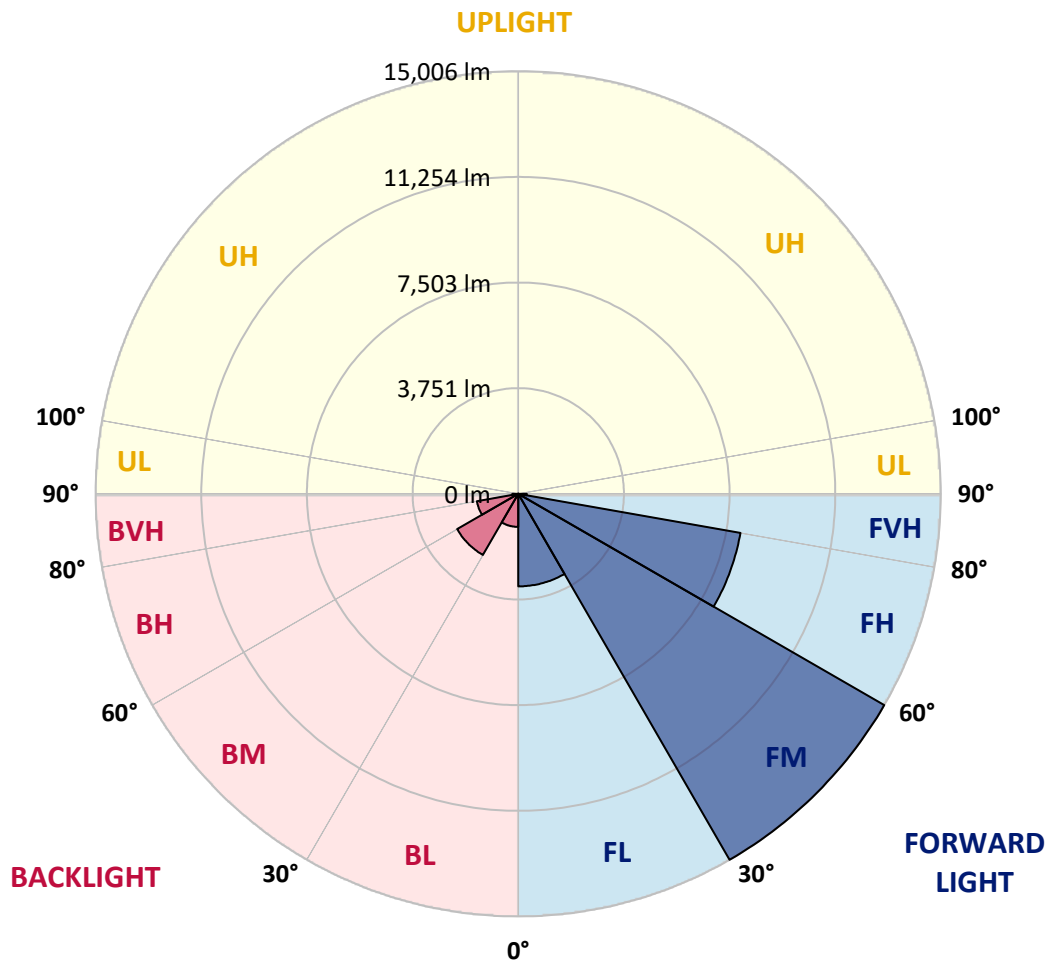
REPORT NUMBER: P383401
 CATALOG NUMBER: GLEON-SA7A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3285.3	10.3			
FM (30°-60°)	15005.7	46.9			
FH (60°-80°)	8012.2	25.0			G4/12000
FVH (80°-90°)	304.3	1.0			G3/500
BL (0°-30°)	1174.0	3.7	B3/2500		
BM (30°-60°)	2506.6	7.8	B3/5000		
BH (60°-80°)	1491.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	210.9	0.7			G2/225
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





REPORT NUMBER: P383401

CATALOG NUMBER: GLEON-SA7A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4
2.5°	3878.2	3819.6	3814.1	3728.3	3708.8	3544.8	3424.3	3298.3	3155.0	3126.7	3013.7
5°	4981.6	4976.2	4901.2	4761.1	4651.5	4371.3	4094.3	3801.1	3479.6	3427.5	3173.4
7.5°	5974.3	5965.6	5908.1	5757.1	5598.5	5254.2	4859.0	4409.3	3888.0	3810.9	3389.5
10°	6728.0	6724.7	6705.2	6594.4	6459.7	6129.6	5693.0	5079.4	4362.6	4257.3	3660.0
12.5°	7310.1	7316.7	7329.6	7290.6	7226.5	6945.2	6497.7	5789.7	4868.7	4764.4	3960.8
15°	7704.4	7723.8	7791.2	7846.6	7880.2	7707.6	7274.3	6516.2	5435.6	5310.8	4294.2
17.5°	7903.1	7924.8	8041.0	8208.2	8362.5	8345.1	8000.8	7209.1	5979.7	5859.2	4652.6
20°	8074.7	8091.0	8221.3	8422.2	8694.8	8815.3	8622.0	7876.0	6576.0	6432.6	5032.7
22.5°	8572.1	8592.7	8631.8	8745.8	8986.9	9208.5	9115.1	8506.9	7122.2	6988.7	5393.3
25°	9532.2	9557.1	9472.4	9375.7	9421.4	9575.6	9593.0	9082.5	7676.1	7525.1	5781.0
27.5°	10688.8	10724.6	10580.1	10331.4	10114.3	10054.5	10033.9	9553.9	8205.0	8030.1	6164.3
30°	11821.5	11883.4	11695.5	11373.0	10974.4	10694.2	10486.7	10015.4	8726.3	8559.1	6526.0
32.5°	12928.2	12903.1	12630.6	12315.6	11848.6	11497.8	10996.1	10510.7	9312.8	9120.5	6885.4
35°	13686.2	13694.9	13441.9	13068.2	12623.0	12353.6	11678.2	11045.0	9911.1	9734.1	7293.8
37.5°	14331.3	14291.2	14004.4	13655.8	13272.4	13157.3	12476.4	11633.6	10559.6	10366.2	7728.2
40°	14546.4	14499.6	14311.7	14060.9	13753.6	13743.8	13357.2	12300.4	11292.6	11101.4	8218.0
42.5°	14416.1	14356.3	14279.2	14210.8	14116.3	14159.7	14184.7	13082.4	12098.5	11884.5	8785.0
45°	13934.9	13844.8	13899.1	14047.8	14253.1	14498.6	14931.9	13948.0	13001.0	12821.7	9450.6
47.5°	13195.3	13113.9	13283.3	13601.5	14159.7	14781.0	15638.9	14903.6	14078.3	13900.2	10398.8
50°	12154.9	12178.8	12421.0	12999.8	13843.7	14911.3	16509.9	16168.9	15644.3	15478.1	11692.2
52.5°	10447.7	10452.0	11134.0	12084.3	13283.3	14843.9	16993.2	17786.0	17782.8	17581.8	12923.8
55°	8862.0	8958.7	9498.4	10761.5	12375.3	14574.6	17331.0	18572.3	19187.0	18951.3	14071.8
57.5°	7313.4	7369.8	7881.4	9149.8	11079.7	13856.7	17677.4	19516.0	20805.2	20656.4	15498.8
60°	5551.8	5638.7	6167.6	7339.4	9422.4	12582.8	17709.9	20501.0	22739.4	22589.6	17092.0
62.5°	3603.5	3753.3	4248.6	5346.5	7417.6	10750.6	16954.1	21145.1	24572.6	24519.5	18506.0
65°	2071.1	2184.0	2528.3	3375.4	5117.4	8450.4	15156.7	20897.5	25701.0	25670.6	19035.0
66°	1692.1	1762.7	2026.6	2638.0	4222.5	7420.9	14111.9	20375.1	25812.9	25813.9	18974.1
67.5°	1353.2	1384.7	1503.1	1888.6	3115.8	5882.0	12245.0	19222.9	25673.8	25711.8	18582.0
70°	1119.7	1136.0	1172.9	1266.3	1700.7	3547.0	8691.5	16228.6	24278.3	24307.6	17051.8
72.5°	1004.6	1014.4	1028.4	1041.5	1200.1	1982.1	5308.5	12982.4	21286.3	21324.3	14720.1
75°	910.1	915.5	913.4	914.4	1006.7	1263.1	2743.3	9692.8	17211.5	17135.4	11276.3
77.5°	799.4	804.8	793.9	796.1	890.6	971.0	1365.2	6785.6	11615.2	11078.6	6353.3
80°	675.6	679.8	675.6	683.1	775.4	733.0	793.9	3817.4	5135.9	4857.8	2258.9
82.5°	510.4	528.9	542.0	572.3	638.6	521.3	531.1	1486.7	1563.9	1489.0	692.9
85°	223.8	272.6	408.4	437.6	480.0	312.8	348.6	606.0	636.4	616.9	252.0
87.5°	58.7	64.1	202.0	254.1	266.0	141.2	181.4	275.8	291.0	275.8	83.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383401
 CATALOG NUMBER: GLEON-SA7A-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4	2921.4
2.5°	2954.0	2900.8	2805.3	2720.5	2656.4	2613.0	2569.6	2547.9	2534.8	2521.8	2523.9
5°	3048.5	2941.0	2777.0	2660.8	2595.7	2554.4	2532.6	2523.9	2518.5	2505.5	2505.5
7.5°	3190.7	3038.7	2812.8	2693.4	2642.3	2610.8	2597.8	2593.4	2586.9	2571.7	2573.9
10°	3370.0	3157.1	2887.8	2771.5	2724.9	2690.1	2671.7	2665.2	2653.1	2635.8	2638.0
12.5°	3580.7	3303.7	2986.6	2865.0	2808.5	2761.8	2731.4	2712.9	2692.3	2669.4	2670.6
15°	3810.9	3463.4	3093.0	2948.6	2871.5	2806.3	2757.5	2726.0	2693.4	2665.2	2664.0
17.5°	4044.4	3617.6	3174.4	2994.2	2889.9	2804.1	2737.9	2689.0	2648.9	2614.1	2610.8
20°	4296.4	3756.6	3220.1	2989.9	2855.2	2753.1	2665.2	2604.3	2559.8	2525.1	2519.6
22.5°	4552.7	3886.9	3227.7	2945.4	2778.1	2653.1	2560.8	2493.6	2447.9	2412.1	2399.0
25°	4787.2	3988.0	3196.2	2859.6	2670.6	2535.9	2445.8	2377.3	2340.4	2298.0	2285.0
27.5°	5001.2	4058.5	3133.2	2749.8	2550.0	2417.6	2332.8	2274.2	2233.9	2201.4	2190.5
30°	5193.4	4096.5	3030.0	2619.5	2426.2	2305.7	2233.9	2193.8	2159.0	2117.8	2110.1
32.5°	5375.9	4096.5	2897.6	2477.3	2303.4	2206.8	2164.5	2139.5	2100.4	2060.2	2049.3
35°	5558.4	4071.5	2741.2	2328.5	2190.5	2136.2	2134.1	2104.7	2045.0	1990.7	1976.6
37.5°	5750.5	4020.5	2565.2	2189.4	2098.2	2104.7	2123.2	2058.1	1973.3	1896.3	1875.6
40°	5967.8	3949.9	2382.8	2068.9	2021.1	2090.6	2093.8	1990.7	1825.6	1755.0	1736.6
42.5°	6223.0	3879.3	2213.4	1962.5	1960.3	2048.3	2038.5	1845.2	1746.4	1710.5	1700.7
45°	6558.6	3839.1	2052.6	1861.4	1912.5	1979.8	1944.0	1764.8	1723.5	1702.9	1694.2
47.5°	7087.5	3859.8	1904.9	1781.1	1864.7	1911.4	1768.1	1732.2	1702.9	1677.9	1669.2
50°	7749.9	3847.9	1785.4	1725.7	1810.5	1839.7	1688.8	1689.8	1674.6	1646.4	1633.4
52.5°	8248.4	3754.4	1708.4	1694.2	1762.7	1712.7	1638.9	1648.6	1641.0	1599.7	1585.6
55°	8729.5	3674.0	1669.2	1682.3	1727.9	1554.1	1580.2	1604.0	1596.5	1556.2	1549.8
57.5°	9328.0	3658.8	1645.3	1685.5	1698.6	1474.8	1523.7	1555.2	1549.8	1532.4	1529.1
60°	10061.0	3663.2	1623.6	1690.9	1666.0	1416.2	1470.4	1510.7	1514.0	1510.7	1508.5
62.5°	10464.0	3544.8	1569.3	1675.8	1608.4	1365.2	1415.1	1473.7	1474.8	1481.3	1480.2
65°	10121.8	3190.7	1468.3	1622.6	1511.7	1322.8	1367.3	1431.4	1415.1	1444.5	1444.5
66°	9789.5	2986.6	1418.4	1587.8	1470.4	1306.5	1352.1	1409.7	1389.0	1429.2	1429.2
67.5°	9110.7	2642.3	1328.2	1514.0	1411.9	1283.7	1334.7	1373.8	1345.6	1405.3	1401.0
70°	7870.5	2043.9	1146.8	1346.6	1315.2	1250.0	1310.9	1302.1	1260.8	1352.1	1334.7
72.5°	6635.7	1553.1	920.9	1127.3	1168.5	1207.7	1277.2	1210.9	1158.8	1222.8	1184.8
75°	5148.8	1167.5	727.6	876.4	987.2	1141.4	1237.0	1105.6	1030.7	1024.1	1003.5
77.5°	2783.5	801.5	576.7	669.0	784.1	1058.9	1209.8	992.7	879.7	853.6	837.4
80°	1102.3	521.3	419.2	507.1	548.4	939.5	1144.7	861.2	725.5	699.4	674.4
82.5°	455.1	308.4	270.4	339.9	357.3	803.6	1027.4	705.9	560.4	775.4	823.2
85°	195.5	169.4	160.7	176.0	202.0	563.7	817.8	538.7	604.9	539.7	429.0
87.5°	58.7	71.6	68.4	67.4	73.9	134.7	435.5	299.8	444.2	168.3	125.9
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)