

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: P383629

Luminaire Tested: **GLEON-SA9A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383629
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-SA9A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39682.1 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

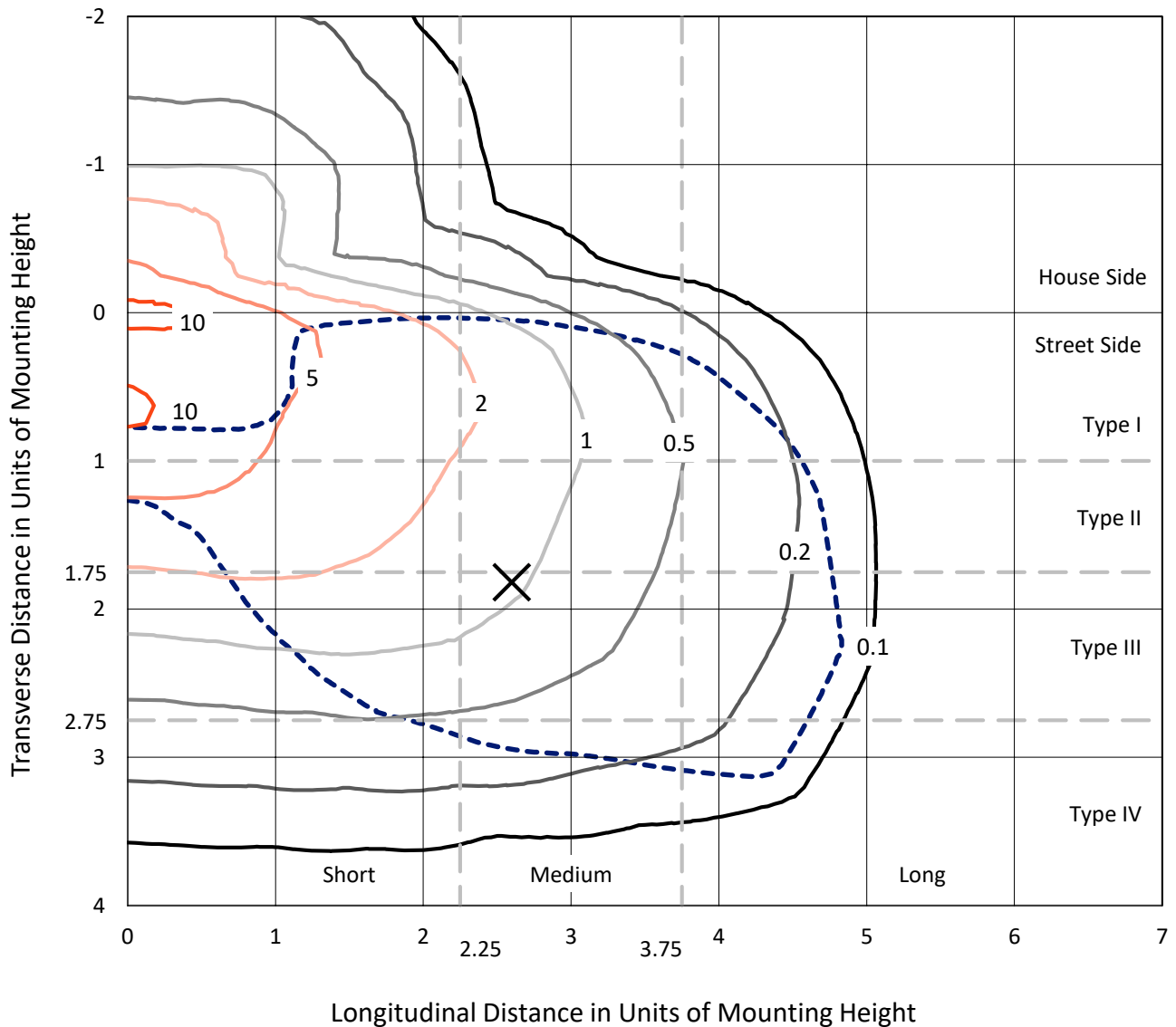
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

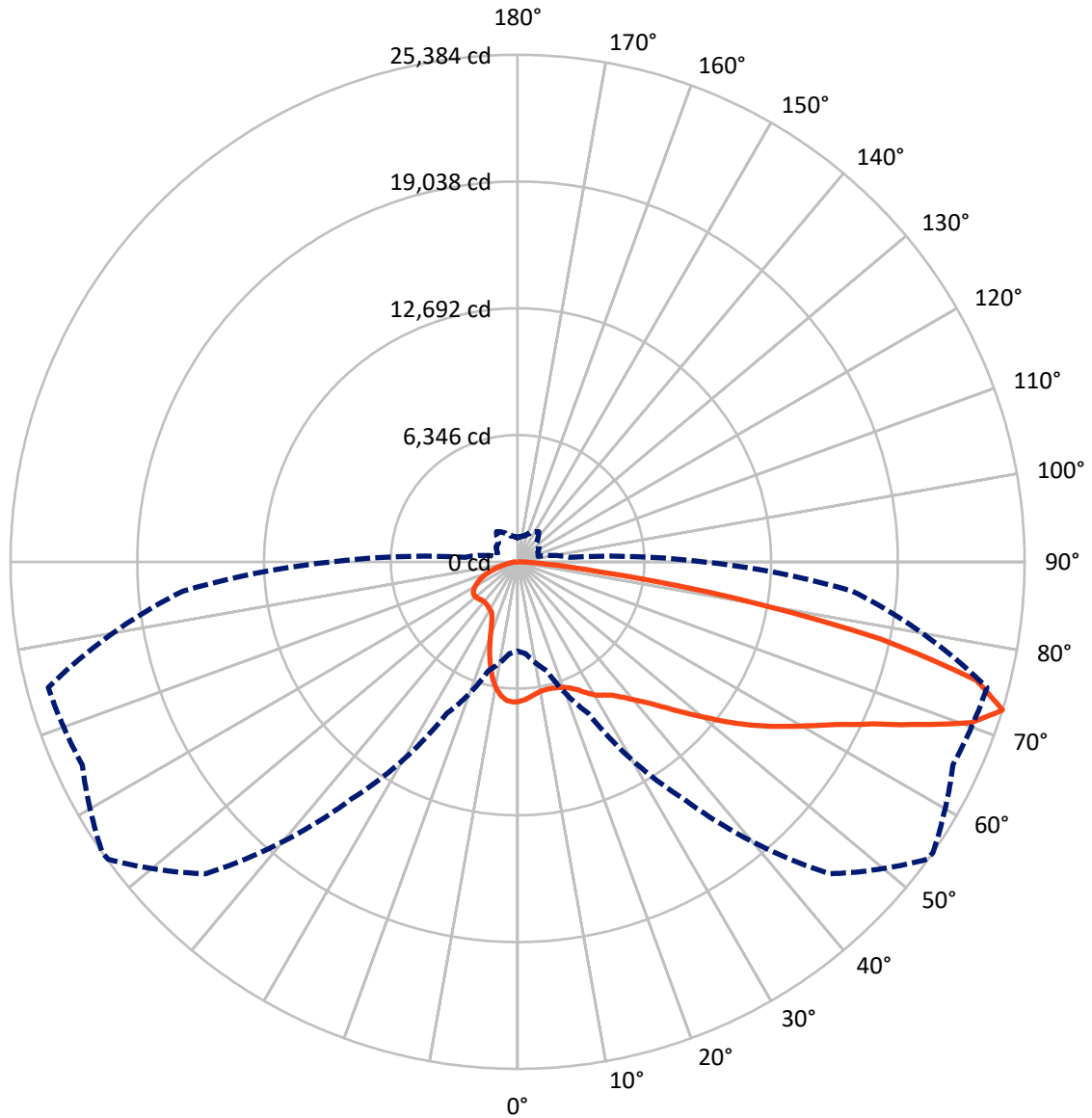
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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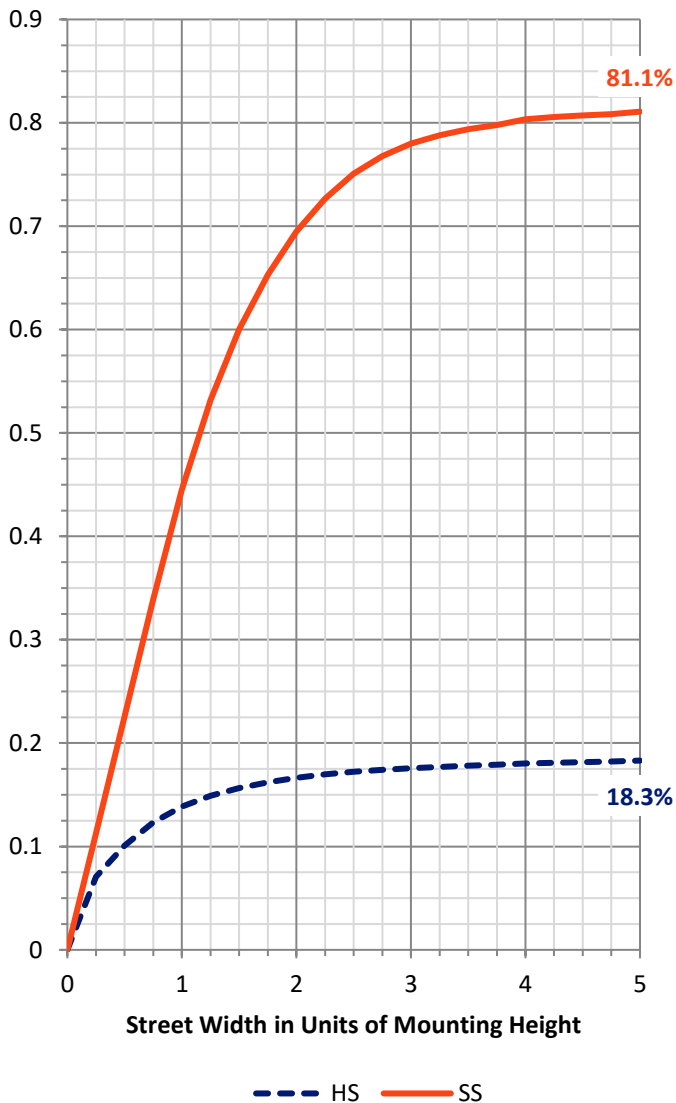
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7375.6	0.0	7375.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32306.5	0.0	32306.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	39682.1	0.0	39682.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.3	1.6
10°-20°	1686.2	4.2
20°-30°	2780.1	7.0
30°-40°	4112.4	10.4
40°-50°	5740.1	14.5
50°-60°	7473.7	18.8
60°-70°	9185.0	23.1
70°-80°	7200.0	18.1
80°-90°	871.3	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°	39682.1	100.0
0°-180°	39682.1	100.0

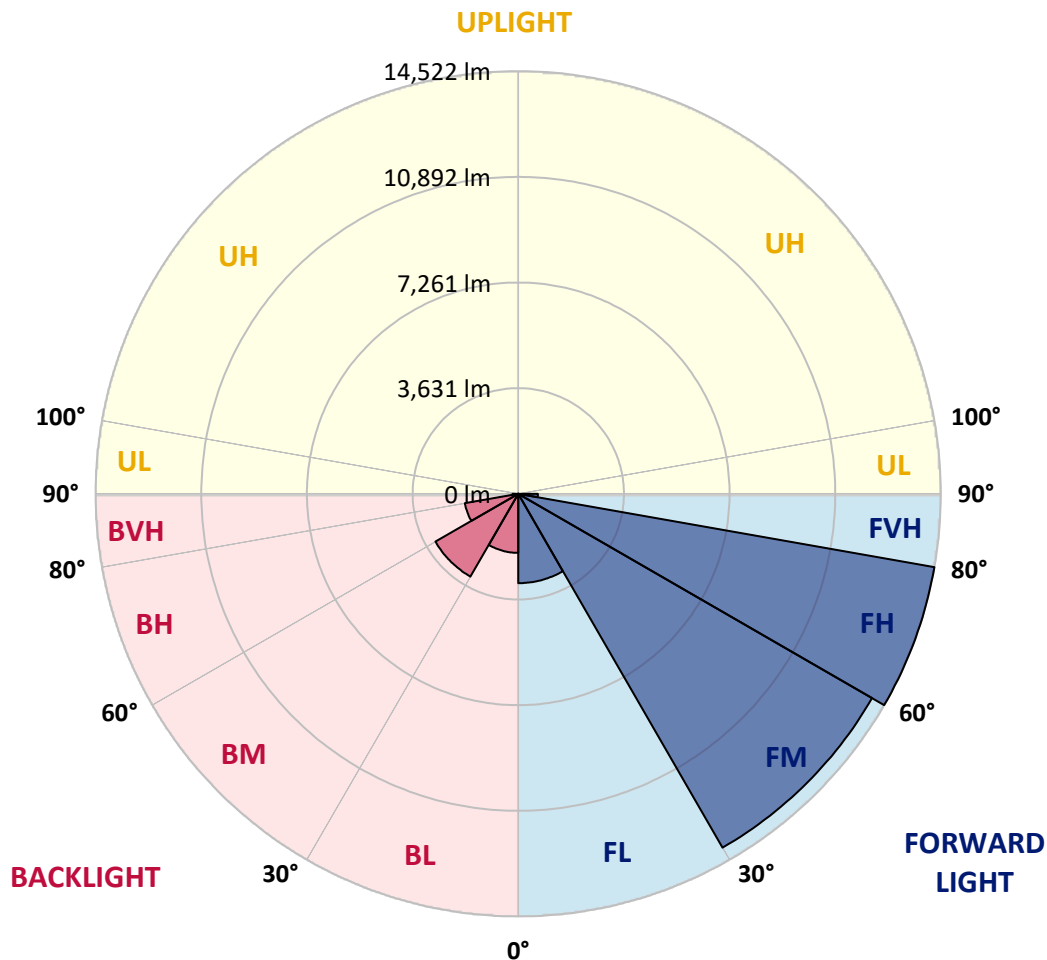


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3070.2	7.7			
FM (30°-60°)	14040.3	35.4			
FH (60°-80°)	14522.3	36.6			G5
FVH (80°-90°)	673.6	1.7			G4/750
BL (0°-30°)	2029.3	5.1	B3/2500		
BM (30°-60°)	3285.9	8.3	B3/5000		
BH (60°-80°)	1862.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	197.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1
2.5°	6771.2	6755.1	6775.2	6803.4	6834.2	6875.8	6899.9	6910.6	6952.1	6968.3	7003.1
5°	6457.6	6449.6	6483.0	6531.3	6599.6	6696.2	6773.9	6788.7	6898.6	6976.3	7047.3
7.5°	6229.7	6229.7	6268.6	6326.2	6402.6	6532.7	6642.6	6662.6	6848.9	7016.5	7147.9
10°	6048.8	6055.5	6101.1	6169.5	6259.3	6397.3	6543.4	6566.1	6835.5	7110.3	7319.4
12.5°	5928.2	5944.2	5985.8	6047.4	6158.6	6326.2	6511.2	6542.0	6863.7	7244.4	7525.8
15°	6004.6	6031.4	6035.4	6060.8	6122.5	6304.8	6530.0	6562.1	6924.0	7381.0	7760.4
17.5°	6339.6	6349.1	6307.5	6253.9	6224.3	6341.0	6586.2	6619.8	6996.4	7516.4	7985.5
20°	6848.9	6843.6	6753.8	6609.1	6458.9	6477.7	6678.7	6713.6	7094.2	7635.7	8210.7
22.5°	7492.3	7473.5	7335.5	7068.8	6812.8	6705.6	6840.9	6870.3	7241.7	7805.9	8451.9
25°	8272.3	8230.8	8048.5	7690.7	7314.0	7037.9	7084.9	7113.0	7456.1	7996.2	8673.1
27.5°	9095.3	9053.7	8821.8	8389.0	7887.7	7457.4	7421.3	7445.4	7700.1	8137.0	8836.7
30°	9955.7	9911.6	9699.7	9214.6	8496.2	7891.7	7734.9	7744.2	7871.6	8213.4	8970.6
32.5°	10820.3	10778.8	10541.5	9978.6	9156.9	8358.1	7961.4	7949.4	7974.8	8292.5	9122.1
35°	11696.8	11712.9	11435.5	10812.2	9888.8	8876.8	8229.5	8204.0	8147.7	8454.6	9336.5
37.5°	12635.0	12624.3	12265.1	11613.7	10654.1	9439.7	8614.1	8610.1	8415.8	8761.6	9673.0
40°	13262.3	13269.0	13050.5	12434.0	11427.4	10062.9	9107.4	9098.0	8843.3	9221.3	10113.9
42.5°	13507.5	13551.8	13608.1	13216.7	12237.0	10785.5	9695.7	9682.3	9439.7	9880.7	10632.6
45°	13525.0	13613.5	13961.9	13912.4	13057.2	11612.4	10447.7	10410.1	10235.9	10757.2	11251.9
47.5°	13374.9	13466.0	14045.0	14326.5	13790.4	12484.9	11326.9	11297.4	11147.3	11853.7	11922.0
50°	13046.5	13133.6	13873.4	14528.9	14393.5	13323.9	12340.2	12262.4	12182.0	13120.2	12688.6
52.5°	12431.3	12598.8	13644.3	14577.1	14754.0	14069.2	13405.7	13354.8	13399.0	14456.5	13456.7
55°	10974.4	11162.1	13053.2	14536.9	15020.7	14695.1	14471.2	14468.6	14697.8	15858.5	14280.9
57.5°	10158.2	10290.8	11849.7	14468.6	15337.1	15317.0	15526.1	15551.5	15997.8	17385.1	15144.1
60°	9697.1	9836.5	11239.8	14215.2	15827.6	16121.2	16602.3	16653.3	17319.4	19075.2	16182.8
62.5°	9277.6	9430.3	10861.8	13699.2	16405.3	17271.2	17891.7	17937.3	18718.7	20812.3	17186.7
65°	8560.5	8733.4	10308.2	13360.2	16930.7	18771.0	19530.9	19561.8	20325.7	22632.3	17954.7
67.5°	7547.2	7705.4	9264.1	12610.9	17319.4	20592.4	21710.2	21727.7	21919.3	23917.7	18347.4
70°	6363.8	6424.0	7776.5	11064.2	16859.7	22295.9	24098.7	24102.7	23372.2	24740.7	18283.1
72.5°	4471.2	4613.3	5645.4	8375.5	14488.6	22088.2	25338.5	25384.0	24047.7	24325.1	16822.2
75°	2742.3	2892.4	3541.1	5075.7	9191.8	17371.7	23411.1	23727.4	22781.1	21688.8	13742.1
77.5°	1833.6	1889.8	2310.7	2959.4	4164.3	9994.7	17998.9	18594.1	18925.0	15816.9	8788.4
80°	1022.7	1129.9	1531.9	1838.9	1852.3	3971.3	10792.2	10931.5	10529.4	6298.1	2711.5
82.5°	541.5	600.5	1022.7	1080.3	1010.5	1329.6	4022.2	4026.2	3364.2	1688.8	805.5
85°	419.5	469.1	701.0	659.4	516.0	589.8	1326.9	1399.3	1144.6	691.6	262.7
87.5°	209.1	260.0	475.8	418.2	202.4	168.9	474.4	506.7	451.7	270.7	95.2
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°	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1	6999.1
2.5°	7016.5	7028.5	7043.3	7027.2	7021.8	7000.4	6964.2	6956.1	6937.4	6938.7	6949.4
5°	7078.2	7098.2	7090.2	7028.5	6954.8	6851.6	6744.4	6653.3	6592.9	6588.9	6584.9
7.5°	7196.1	7209.5	7146.5	6971.0	6764.5	6526.0	6300.8	6103.8	5984.4	5955.0	5948.3
10°	7381.0	7378.3	7205.4	6851.6	6440.2	6014.0	5652.1	5378.7	5219.2	5172.2	5160.1
12.5°	7587.5	7556.6	7225.5	6634.5	5981.7	5390.7	4932.4	4628.0	4461.8	4408.3	4394.9
15°	7800.6	7724.2	7176.0	6310.1	5418.8	4719.2	4238.1	3956.6	3866.8	3837.3	3831.9
17.5°	7998.9	7851.5	7033.9	5870.5	4776.9	4050.4	3675.1	3562.5	3583.9	3622.9	3624.2
20°	8193.2	7937.3	6806.1	5315.6	4100.0	3499.5	3372.2	3455.3	3557.2	3636.2	3647.0
22.5°	8385.0	7997.6	6512.5	4675.0	3494.1	3189.9	3279.7	3431.2	3547.8	3633.6	3648.3
25°	8545.7	8012.3	6107.8	3991.4	3073.3	3073.3	3235.5	3378.9	3494.1	3578.6	3593.4
27.5°	8604.7	7913.1	5536.7	3358.8	2861.5	3019.7	3173.9	3293.1	3390.9	3480.7	3496.8
30°	8627.5	7729.5	4877.4	2850.8	2774.4	2962.0	3090.8	3192.6	3285.1	3369.5	3384.2
32.5°	8631.5	7508.4	4177.7	2562.7	2714.2	2901.8	2987.6	3077.4	3176.5	3210.0	3215.4
35°	8657.1	7247.0	3440.6	2415.2	2657.8	2845.5	2913.8	2978.2	2817.3	2829.4	2840.1
37.5°	8730.7	6988.4	2824.0	2332.1	2621.7	2816.0	2897.8	2664.5	2538.6	2509.0	2505.0
40°	8868.8	6712.3	2367.0	2265.2	2608.2	2830.7	2794.5	2487.6	2270.5	2108.3	2084.2
42.5°	9060.4	6414.7	2074.7	2220.9	2617.6	2901.8	2651.1	2317.4	1956.8	1852.3	1838.9
45°	9276.3	6102.4	1916.7	2190.1	2649.8	2956.7	2621.7	2090.9	1810.7	1731.7	1724.9
47.5°	9485.3	5720.4	1834.9	2176.7	2694.0	2912.5	2497.0	2021.2	1741.1	1699.5	1703.5
50°	9725.3	5376.0	1785.3	2161.9	2732.9	2884.4	2356.3	1985.0	1714.2	1765.2	1818.8
52.5°	9927.6	5019.5	1741.1	2132.4	2747.6	2834.7	2320.0	1991.6	1714.2	1812.0	1863.0
55°	10167.6	4750.1	1690.1	2070.7	2719.5	2694.0	2294.6	2031.9	1734.4	1672.7	1678.1
57.5°	10477.1	4661.6	1633.8	1974.2	2625.7	2488.9	2282.6	2070.7	1722.2	1683.4	1696.8
60°	10906.0	4755.4	1611.0	1848.3	2479.6	2328.1	2283.9	2050.7	1637.8	1570.9	1572.2
62.5°	11314.9	4860.0	1609.7	1769.2	2300.0	2184.7	2253.0	1985.0	1595.0	1556.1	1570.9
65°	11448.9	4754.1	1545.3	1680.7	2097.6	2013.2	2196.8	1915.3	1562.8	1503.8	1501.1
67.5°	11269.3	4425.7	1415.4	1537.3	1865.7	1813.4	2123.0	1832.2	1511.9	1463.6	1455.5
70°	10735.8	3692.6	1254.5	1348.3	1601.7	1588.3	2006.5	1735.7	1443.5	1402.0	1367.1
72.5°	9300.4	2631.0	1057.5	1121.9	1304.1	1347.0	1845.6	1609.7	1347.0	1257.2	1203.6
75°	7638.4	1947.5	868.5	881.9	990.5	1107.1	1624.4	1462.3	1233.1	1080.3	1038.8
77.5°	4677.7	1191.5	691.6	697.0	710.4	883.3	1337.6	1297.5	1088.3	900.7	871.2
80°	1514.5	650.0	500.0	525.4	485.1	647.3	1034.7	1104.4	934.2	753.2	721.1
82.5°	576.3	379.3	337.8	355.2	336.4	434.3	754.6	884.6	765.4	619.2	504.0
85°	278.8	214.4	199.7	223.9	207.7	222.5	482.5	651.4	580.4	403.5	375.3
87.5°	99.2	95.2	76.4	103.2	88.5	79.1	147.5	328.4	383.3	277.4	248.0
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)