

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: P383349

Luminaire Tested: **GLEON-SA6C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383349
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-SA6C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40292.3 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

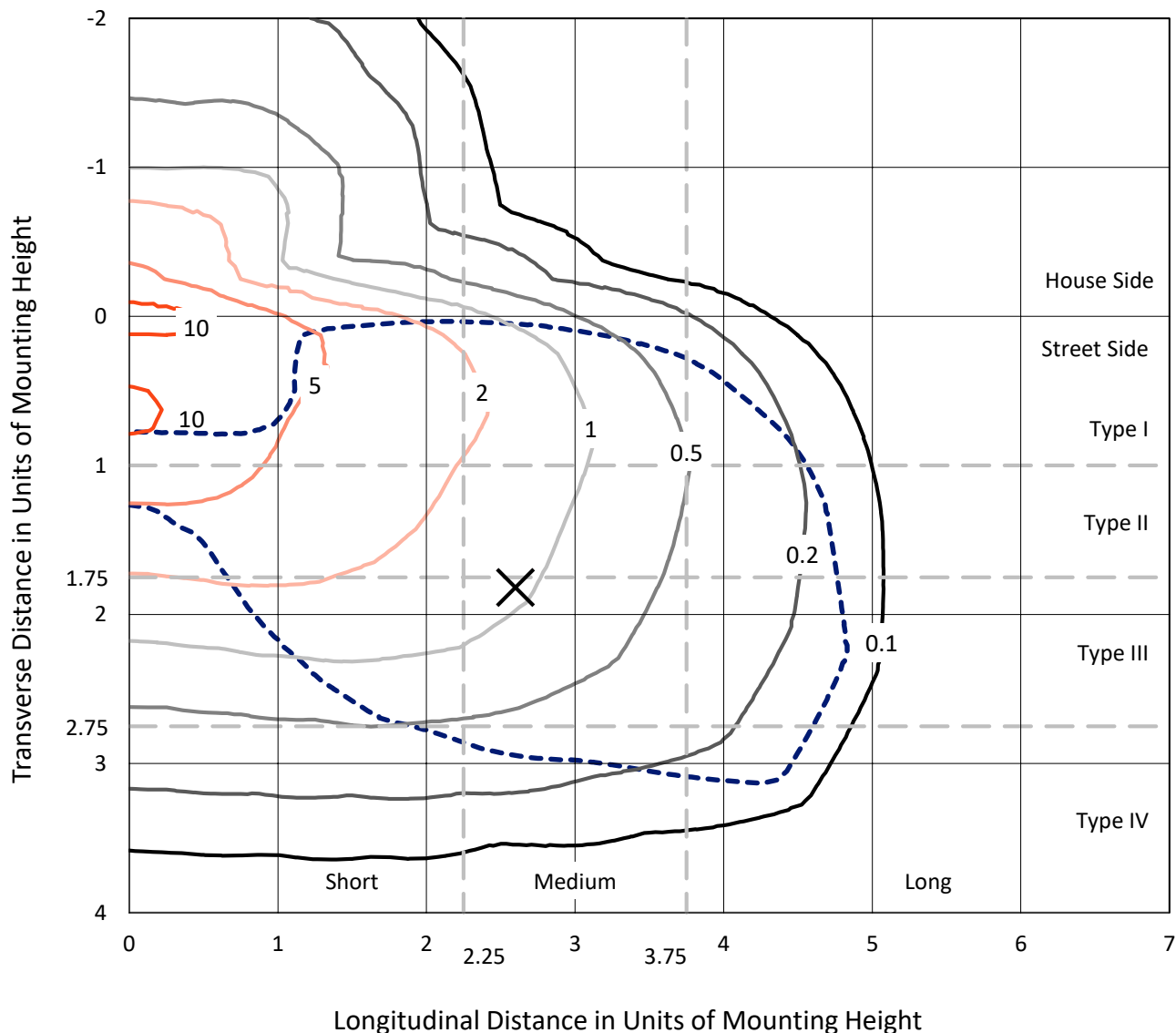
Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

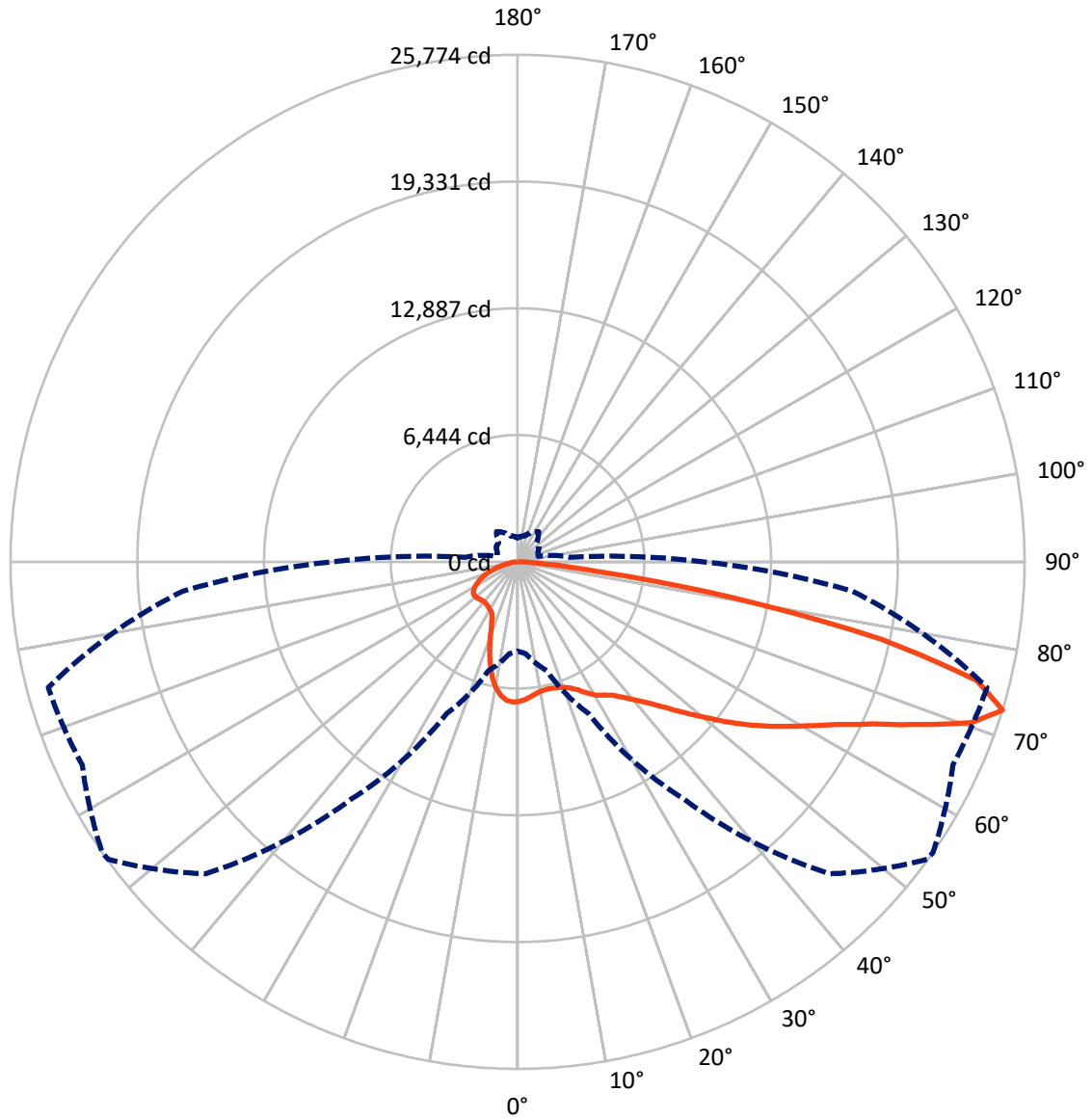
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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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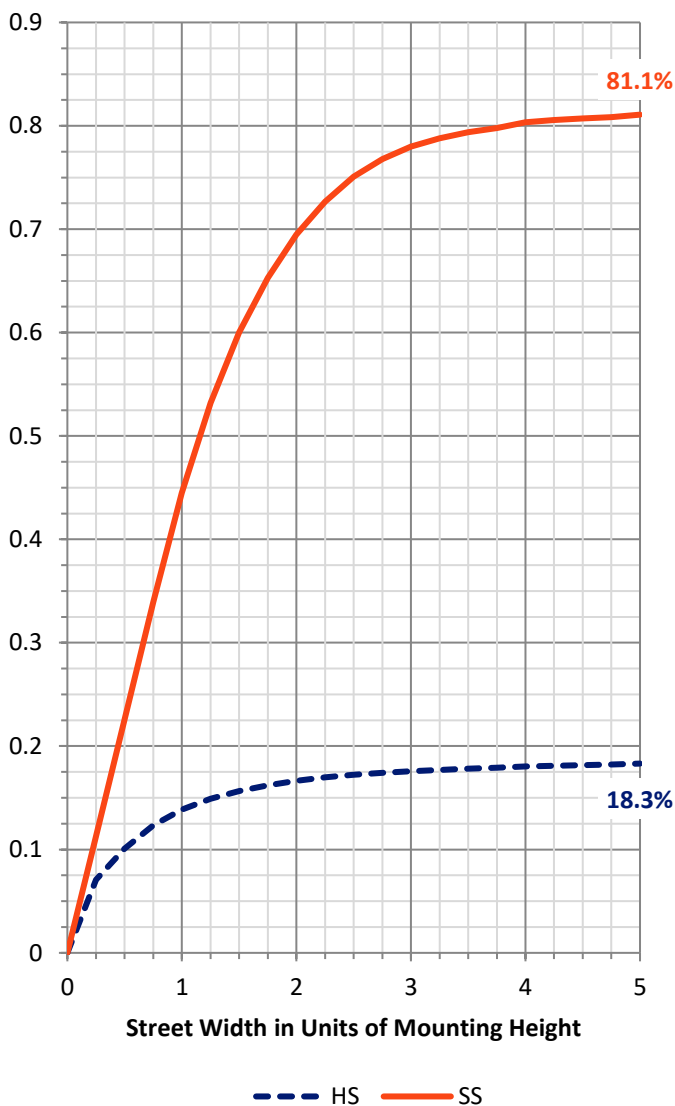
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7489.0	0.0	7489.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32803.3	0.0	32803.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	40292.3	0.0	40292.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.1	1.6
10°-20°	1712.1	4.2
20°-30°	2822.8	7.0
30°-40°	4175.7	10.4
40°-50°	5828.3	14.5
50°-60°	7588.7	18.8
60°-70°	9326.3	23.1
70°-80°	7310.7	18.1
80°-90°	884.7	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°	40292.3	100.0
0°-180°	40292.3	100.0

Coefficient of Utilization

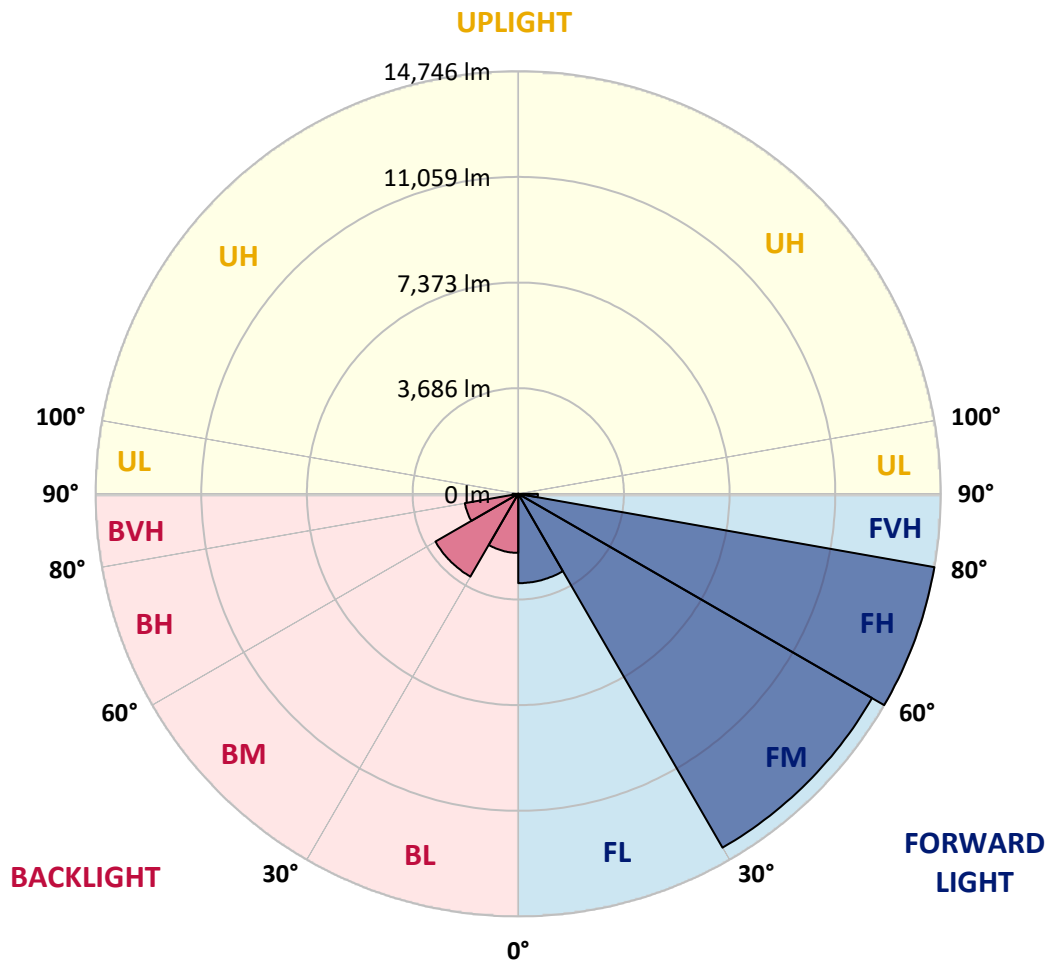


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3117.4	7.7			
FM (30°-60°)	14256.2	35.4			
FH (60°-80°)	14745.6	36.6			G5
FVH (80°-90°)	684.0	1.7			G4/750
BL (0°-30°)	2060.5	5.1	B3/2500		
BM (30°-60°)	3336.5	8.3	B3/5000		
BH (60°-80°)	1891.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	200.7	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°	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7
2.5°	6875.3	6859.0	6879.4	6908.0	6939.3	6981.5	7006.0	7016.9	7059.1	7075.4	7110.8
5°	6556.9	6548.7	6582.7	6631.7	6701.1	6799.1	6878.1	6893.0	7004.6	7083.6	7155.7
7.5°	6325.5	6325.5	6365.0	6423.5	6501.1	6633.1	6744.7	6765.1	6954.3	7124.4	7257.8
10°	6141.8	6148.6	6194.9	6264.3	6355.5	6495.6	6644.0	6667.1	6940.7	7219.7	7432.0
12.5°	6019.3	6035.7	6077.8	6140.4	6253.4	6423.5	6611.3	6642.6	6969.2	7355.7	7641.5
15°	6096.9	6124.1	6128.2	6154.1	6216.7	6401.7	6630.4	6663.0	7030.5	7494.6	7879.7
17.5°	6437.1	6446.7	6404.5	6350.0	6320.1	6438.5	6687.5	6721.6	7104.0	7632.0	8108.3
20°	6954.3	6948.8	6857.7	6710.7	6558.2	6577.3	6781.4	6816.8	7203.3	7753.1	8337.0
22.5°	7607.5	7588.5	7448.3	7177.5	6917.5	6808.7	6946.1	6976.1	7353.0	7926.0	8581.9
25°	8399.6	8357.4	8172.3	7808.9	7426.5	7146.2	7193.8	7222.4	7570.8	8119.2	8806.5
27.5°	9235.2	9193.0	8957.5	8518.0	8009.0	7572.1	7535.4	7559.9	7818.5	8262.1	8972.5
30°	10108.9	10064.0	9848.9	9356.3	8626.8	8013.1	7853.8	7863.4	7992.7	8339.7	9108.6
32.5°	10986.7	10944.5	10703.6	10132.0	9297.8	8486.7	8083.8	8071.6	8097.4	8420.0	9262.4
35°	11876.7	11893.0	11611.3	10978.5	10040.8	9013.3	8356.0	8330.2	8273.0	8584.7	9480.1
37.5°	12829.3	12818.5	12453.7	11792.3	10817.9	9584.9	8746.6	8742.5	8545.2	8896.3	9821.7
40°	13466.3	13473.1	13251.2	12625.2	11603.2	10217.8	9247.4	9237.9	8979.3	9363.1	10269.5
42.5°	13715.3	13760.2	13817.4	13420.0	12425.2	10951.3	9844.9	9831.3	9584.9	10032.7	10796.1
45°	13733.0	13822.8	14176.7	14126.3	13258.0	11791.0	10608.3	10570.2	10393.3	10922.7	11424.9
47.5°	13580.6	13673.1	14261.0	14546.8	14002.5	12676.9	11501.1	11471.2	11318.7	12035.9	12105.3
50°	13247.1	13335.6	14086.8	14752.3	14614.9	13528.9	12529.9	12451.0	12369.4	13322.0	12883.8
52.5°	12622.5	12792.6	13854.1	14801.3	14981.0	14285.5	13611.9	13560.2	13605.1	14678.8	13663.6
55°	11143.2	11333.7	13254.0	14760.5	15251.8	14921.1	14693.8	14691.1	14923.8	16102.3	14500.6
57.5°	10314.4	10449.1	12031.9	14691.1	15573.0	15552.5	15764.8	15790.7	16243.9	17652.4	15377.0
60°	9846.2	9987.8	11412.6	14433.9	16071.0	16369.1	16857.7	16909.4	17585.7	19368.5	16431.7
62.5°	9420.3	9575.4	11028.9	13909.9	16657.6	17536.8	18166.9	18213.1	19006.5	21132.3	17451.0
65°	8692.2	8867.7	10466.8	13565.6	17191.1	19059.6	19831.3	19862.6	20638.3	22980.3	18230.8
67.5°	7663.3	7823.9	9406.6	12804.9	17585.7	20909.1	22044.0	22061.7	22256.3	24285.4	18629.6
70°	6461.6	6522.9	7896.0	11234.4	17119.0	22638.7	24469.2	24473.2	23731.5	25121.0	18564.2
72.5°	4540.0	4684.3	5732.2	8504.4	14711.5	22427.8	25728.0	25774.3	24417.4	24699.1	17080.8
75°	2784.4	2936.9	3595.5	5153.8	9333.2	17638.8	23771.0	24092.2	23131.4	22022.3	13953.5
77.5°	1861.7	1918.9	2346.2	3004.9	4228.4	10148.3	18275.7	18880.0	19216.1	16060.2	8923.5
80°	1038.4	1147.3	1555.5	1867.2	1880.8	4032.4	10958.1	11099.6	10691.3	6394.9	2753.1
82.5°	549.8	609.7	1038.4	1096.9	1026.1	1350.0	4084.1	4088.2	3415.9	1714.8	817.9
85°	426.0	476.3	711.8	669.6	524.0	598.8	1347.3	1420.8	1162.2	702.2	266.7
87.5°	212.3	264.0	483.1	424.6	205.5	171.5	481.8	514.4	458.6	274.9	96.6
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°	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7	7106.7
2.5°	7124.4	7136.6	7151.6	7135.3	7129.8	7108.1	7071.3	7063.1	7044.1	7045.5	7056.3
5°	7187.0	7207.4	7199.2	7136.6	7061.8	6957.0	6848.1	6755.6	6694.3	6690.3	6686.2
7.5°	7306.8	7320.4	7256.4	7078.1	6868.5	6626.3	6397.7	6197.6	6076.5	6046.5	6039.7
10°	7494.6	7491.8	7316.3	6957.0	6539.2	6106.4	5739.0	5461.4	5299.4	5251.8	5239.5
12.5°	7704.1	7672.8	7336.7	6736.5	6073.8	5473.6	5008.2	4699.2	4530.5	4476.0	4462.4
15°	7920.5	7843.0	7286.3	6407.2	5502.2	4791.8	4303.2	4017.4	3926.2	3896.3	3890.9
17.5°	8121.9	7972.2	7142.1	5960.8	4850.3	4112.7	3731.6	3617.3	3639.1	3678.6	3679.9
20°	8319.3	8059.3	6910.7	5397.4	4163.0	3553.3	3424.1	3508.4	3611.9	3692.2	3703.0
22.5°	8513.9	8120.6	6612.7	4746.9	3547.9	3239.0	3330.2	3483.9	3602.3	3689.4	3704.4
25°	8677.2	8135.6	6201.7	4052.8	3120.6	3120.6	3285.2	3430.9	3547.9	3633.6	3648.6
27.5°	8737.1	8034.8	5621.9	3410.5	2905.6	3066.1	3222.6	3343.8	3443.1	3534.3	3550.6
30°	8760.2	7848.4	4952.4	2894.7	2817.1	3007.6	3138.3	3241.7	3335.6	3421.3	3436.3
32.5°	8764.3	7623.8	4242.0	2602.1	2755.9	2946.4	3033.5	3124.7	3225.4	3259.4	3264.8
35°	8790.2	7358.5	3493.5	2452.4	2698.7	2889.2	2958.6	3024.0	2860.6	2872.9	2883.8
37.5°	8865.0	7095.8	2867.4	2368.0	2661.9	2859.3	2942.3	2705.5	2577.6	2547.6	2543.6
40°	9005.2	6815.5	2403.4	2299.9	2648.3	2874.3	2837.5	2525.9	2305.4	2140.7	2116.2
42.5°	9199.8	6513.3	2106.7	2255.0	2657.9	2946.4	2691.9	2353.0	1986.9	1880.8	1867.2
45°	9418.9	6196.2	1946.1	2223.7	2690.5	3002.2	2661.9	2123.0	1838.6	1758.3	1751.5
47.5°	9631.2	5808.4	1863.1	2210.1	2735.4	2957.3	2535.4	2052.3	1767.8	1725.6	1729.7
50°	9874.8	5458.6	1812.7	2195.2	2774.9	2928.7	2392.5	2015.5	1740.6	1792.3	1846.8
52.5°	10080.3	5096.6	1767.8	2165.2	2789.9	2878.3	2355.7	2022.3	1740.6	1840.0	1891.7
55°	10323.9	4823.1	1716.1	2102.6	2761.3	2735.4	2329.9	2063.1	1761.0	1698.4	1703.9
57.5°	10638.3	4733.3	1659.0	2004.6	2666.0	2527.2	2317.6	2102.6	1748.8	1709.3	1722.9
60°	11073.8	4828.5	1635.8	1876.7	2517.7	2363.9	2319.0	2082.2	1663.0	1595.0	1596.4
62.5°	11488.8	4934.7	1634.5	1796.4	2335.3	2218.3	2287.7	2015.5	1619.5	1580.0	1595.0
65°	11624.9	4827.2	1569.1	1706.6	2129.8	2044.1	2230.5	1944.7	1586.8	1526.9	1524.2
67.5°	11442.6	4493.7	1437.1	1561.0	1894.4	1841.3	2155.7	1860.4	1535.1	1486.1	1478.0
70°	10900.9	3749.3	1273.8	1369.1	1626.3	1612.7	2037.3	1762.4	1465.7	1423.5	1388.1
72.5°	9443.4	2671.5	1073.8	1139.1	1324.2	1367.7	1874.0	1634.5	1367.7	1276.5	1222.1
75°	7755.9	1977.4	881.9	895.5	1005.7	1124.1	1649.4	1484.8	1252.0	1096.9	1054.7
77.5°	4749.6	1209.9	702.2	707.7	721.3	896.8	1358.2	1317.4	1105.1	914.5	884.6
80°	1537.8	660.0	507.6	533.5	492.7	657.3	1050.6	1121.4	948.6	764.8	732.2
82.5°	585.2	385.1	343.0	360.6	341.6	440.9	766.2	898.2	777.1	628.7	511.7
85°	283.1	217.7	202.8	227.3	210.9	225.9	489.9	661.4	589.3	409.6	381.1
87.5°	100.7	96.6	77.6	104.8	89.8	80.3	149.7	333.4	389.2	281.7	251.8
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)