

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: P382617

Luminaire Tested: **GLEON-SA0A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382617
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-SA0A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 44765.5 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

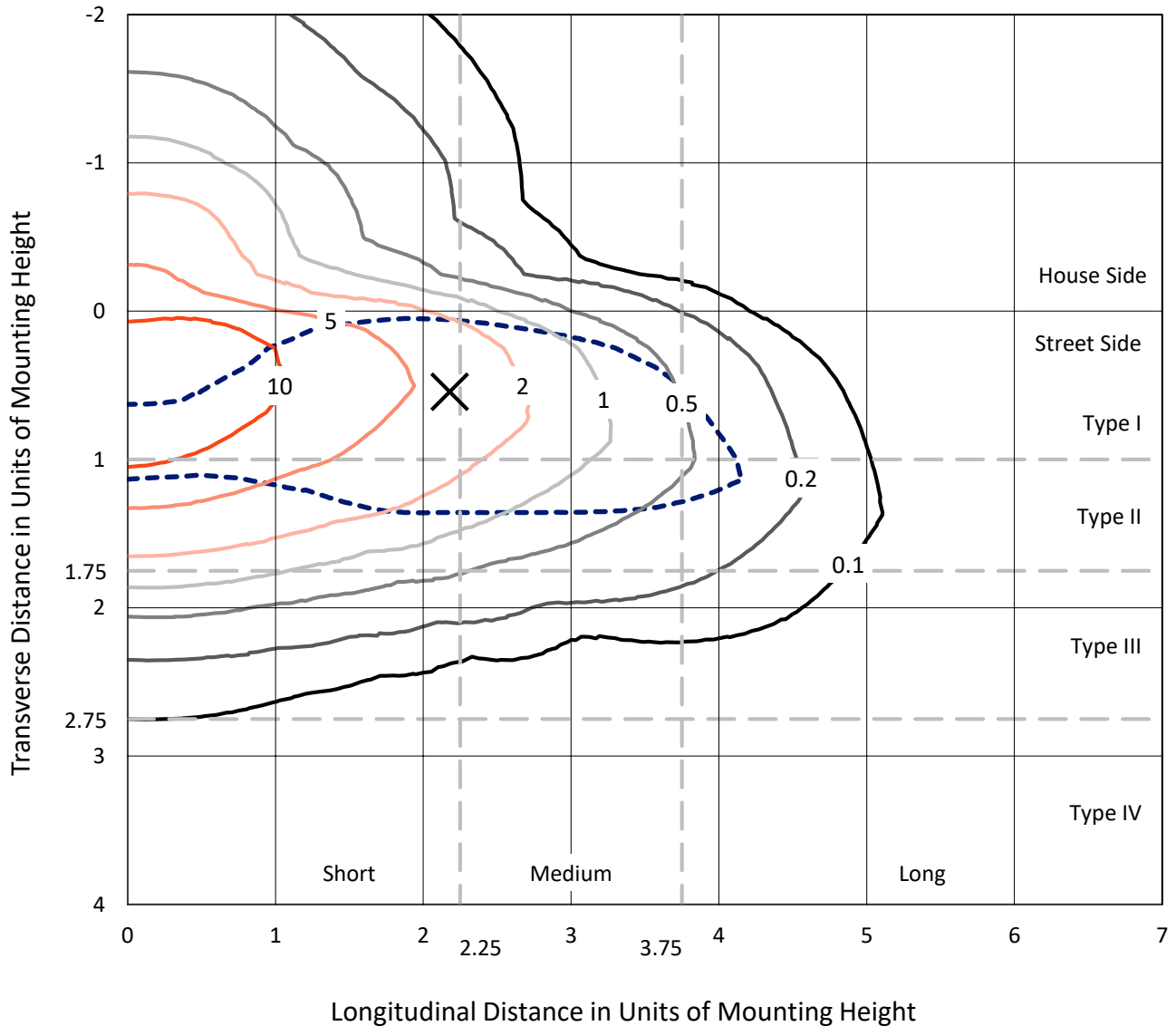
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

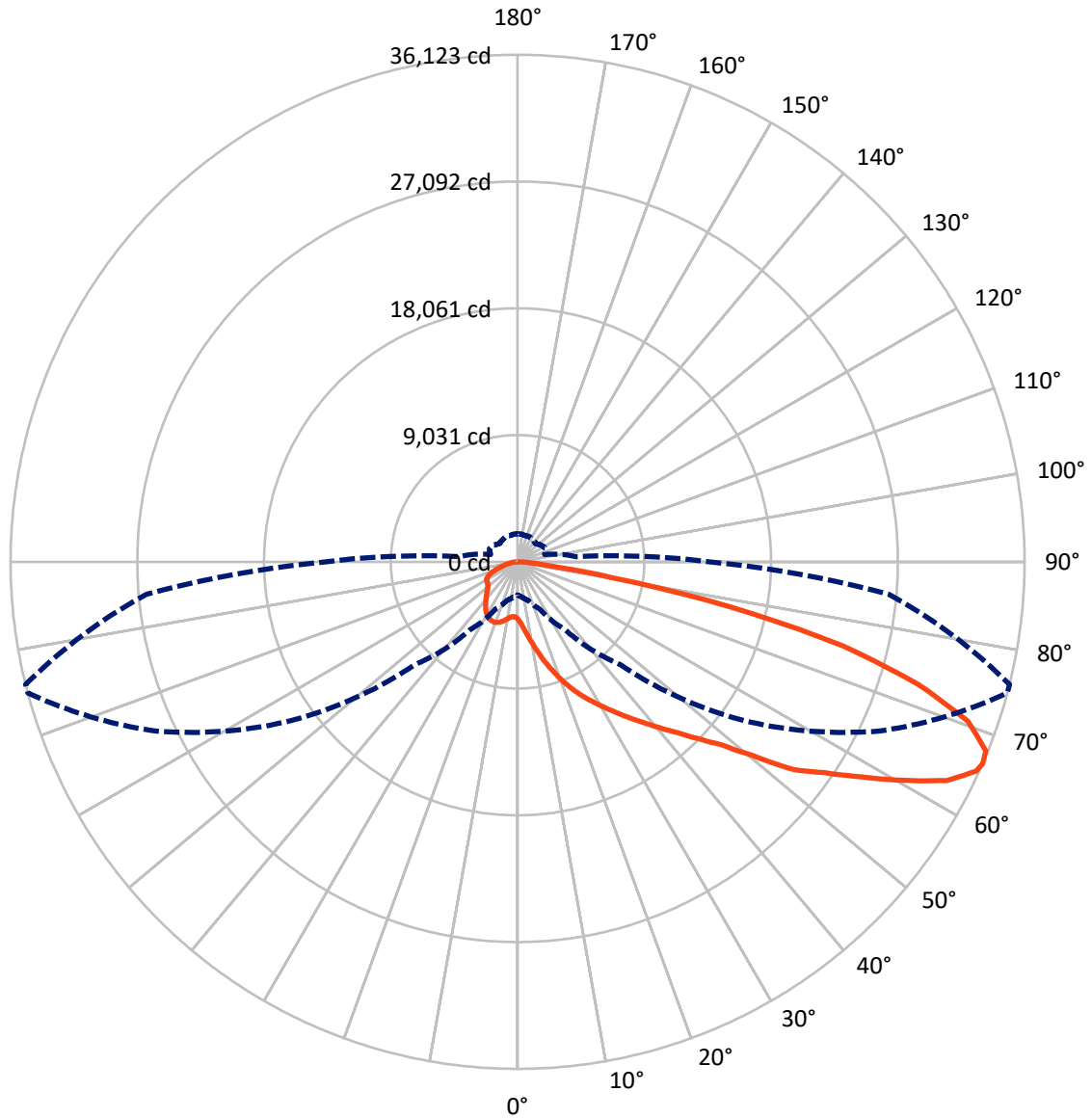
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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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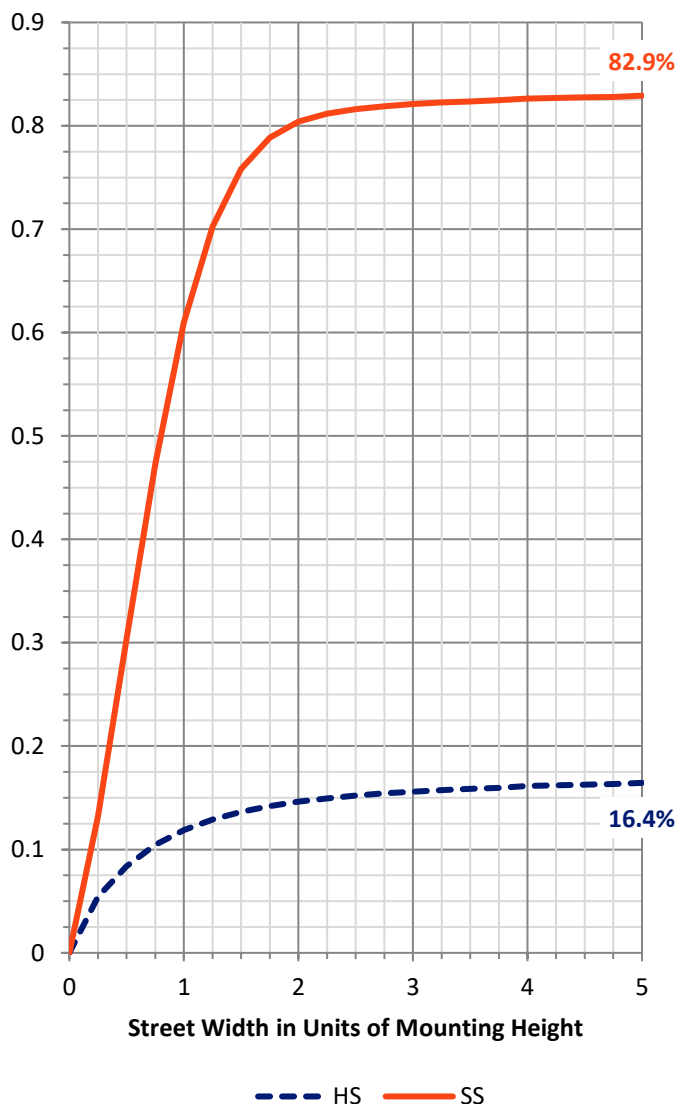
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7532.5	0.0	7532.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	37233.0	0.0	37233.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	44765.5	0.0	44765.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.4	1.1
10°-20°	1952.2	4.4
20°-30°	3793.6	8.5
30°-40°	6192.0	13.8
40°-50°	8459.8	18.9
50°-60°	9853.9	22.0
60°-70°	8834.2	19.7
70°-80°	4464.4	10.0
80°-90°	720.9	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°	44765.5	100.0
0°-180°	44765.5	100.0

Coefficient of Utilization



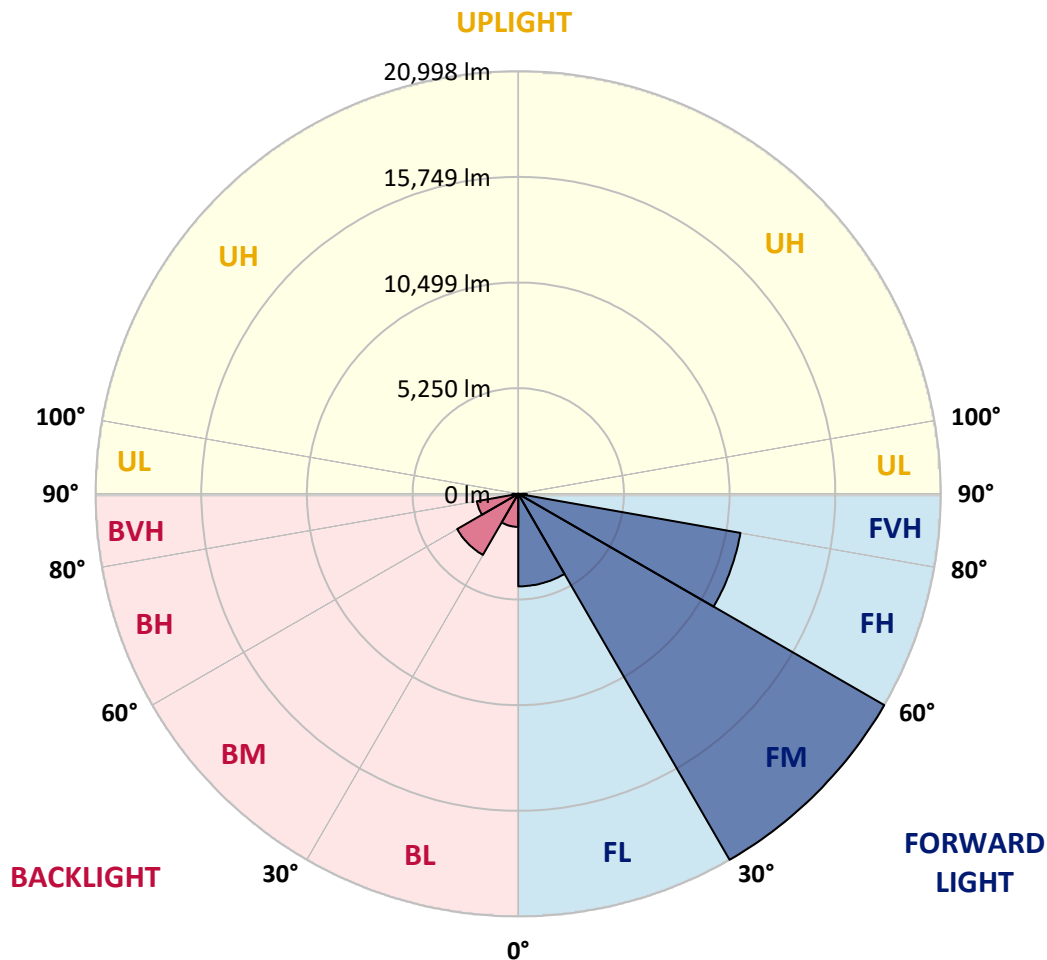
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4597.3	10.3			
FM (30°-60°)	20998.1	46.9			
FH (60°-80°)	11211.8	25.0			G4/12000
FVH (80°-90°)	425.8	1.0			G3/500
BL (0°-30°)	1642.9	3.7	B3/2500		
BM (30°-60°)	3507.6	7.8	B3/5000		
BH (60°-80°)	2086.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	295.2	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°	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1
2.5°	5427.0	5344.9	5337.3	5217.2	5189.9	4960.4	4791.8	4615.4	4414.9	4375.3	4217.3
5°	6971.1	6963.4	6858.6	6662.5	6509.0	6116.9	5729.4	5319.1	4869.3	4796.3	4440.7
7.5°	8360.1	8348.0	8267.4	8056.1	7834.2	7352.5	6799.3	6170.1	5440.7	5332.7	4743.1
10°	9414.8	9410.2	9382.9	9227.8	9039.5	8577.4	7966.5	7107.8	6104.8	5957.3	5121.6
12.5°	10229.4	10238.5	10256.7	10202.0	10112.3	9718.7	9092.6	8101.8	6813.0	6667.1	5542.5
15°	10781.1	10808.4	10902.6	10980.2	11027.2	10785.6	10179.2	9118.5	7606.3	7431.5	6009.0
17.5°	11059.1	11089.5	11252.2	11486.2	11702.0	11677.7	11195.9	10088.0	8367.7	8199.0	6510.6
20°	11299.3	11322.0	11504.4	11785.6	12167.0	12335.7	12065.2	11021.1	9202.0	9001.5	7042.5
22.5°	11995.4	12024.2	12078.9	12238.5	12575.9	12885.9	12755.2	11904.2	9966.4	9779.6	7547.0
25°	13338.7	13373.7	13255.2	13119.9	13183.7	13399.6	13423.9	12709.6	10741.5	10530.3	8089.6
27.5°	14957.3	15007.4	14805.3	14457.2	14153.4	14069.7	14040.8	13369.2	11481.6	11237.0	8626.0
30°	16542.3	16629.0	16366.1	15914.7	15356.9	14964.8	14674.6	14015.0	12211.1	11977.1	9132.1
32.5°	18091.0	18056.0	17674.6	17233.8	16580.3	16089.5	15387.4	14708.0	13031.8	12762.8	9635.2
35°	19151.8	19163.9	18809.8	18287.0	17663.9	17287.0	16341.8	15455.8	13869.2	13621.5	10206.6
37.5°	20054.4	19998.3	19597.1	19109.2	18572.7	18411.7	17458.8	16279.4	14776.4	14506.0	10814.4
40°	20355.4	20290.0	20027.2	19676.1	19246.0	19232.4	18691.3	17212.6	15802.2	15534.8	11499.9
42.5°	20173.0	20089.5	19981.5	19885.8	19753.6	19814.4	19849.3	18306.8	16929.9	16630.5	12293.2
45°	19499.8	19373.7	19449.6	19657.8	19945.1	20288.5	20894.9	19518.1	18192.8	17942.1	13224.8
47.5°	18464.9	18350.8	18587.9	19033.2	19814.4	20683.7	21884.3	20855.4	19700.4	19451.2	14551.5
50°	17008.9	17042.4	17381.3	18191.3	19372.1	20866.0	23103.1	22625.9	21891.8	21659.3	16361.5
52.5°	14619.9	14625.9	15580.4	16910.2	18587.9	20771.8	23779.3	24888.8	24884.2	24603.1	18084.9
55°	12401.0	12536.3	13291.7	15059.1	17317.5	20394.9	24252.0	25989.1	26849.3	26519.5	19691.2
57.5°	10233.9	10313.0	11028.8	12803.8	15504.4	19390.3	24736.8	27309.7	29113.7	28905.5	21688.2
60°	7768.9	7890.5	8630.6	10270.4	13185.3	17607.7	24782.4	28688.1	31820.4	31610.6	23917.7
62.5°	5042.5	5252.3	5945.2	7481.7	10379.9	15043.9	23724.7	29589.3	34385.7	34311.1	25896.4
65°	2898.1	3056.2	3537.9	4723.3	7161.0	11825.1	21209.5	29242.9	35964.6	35922.1	26636.5
66°	2367.7	2466.6	2835.8	3691.4	5908.7	10384.4	19747.5	28511.9	36121.2	36122.7	26551.3
67.5°	1893.6	1937.7	2103.3	2642.8	4360.1	8230.9	17135.1	26899.4	35926.6	35979.8	26002.8
70°	1566.9	1589.7	1641.3	1772.0	2379.9	4963.5	12162.5	22709.5	33973.8	34014.8	23861.4
72.5°	1405.8	1419.4	1439.1	1457.4	1679.3	2773.5	7428.5	18166.9	29786.9	29840.1	20598.6
75°	1273.5	1281.2	1278.1	1279.7	1408.8	1767.4	3838.9	13563.7	24084.9	23978.5	15779.5
77.5°	1118.5	1126.1	1111.0	1113.9	1246.2	1358.7	1910.3	9495.4	16253.6	15502.9	8890.5
80°	945.2	951.4	945.2	956.0	1085.1	1025.8	1111.0	5341.9	7186.9	6797.8	3161.0
82.5°	714.3	740.1	758.4	800.9	893.6	729.5	743.2	2080.5	2188.4	2083.6	969.6
85°	313.1	381.5	571.4	612.5	671.7	437.6	487.9	848.0	890.6	863.2	352.6
87.5°	82.1	89.7	282.6	355.7	372.3	197.6	253.8	386.0	407.3	386.0	117.0
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°	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1	4088.1
2.5°	4133.6	4059.2	3925.4	3807.0	3717.2	3656.5	3595.7	3565.3	3547.1	3528.8	3531.9
5°	4265.9	4115.5	3886.0	3723.4	3632.2	3574.4	3544.1	3531.9	3524.3	3506.1	3506.1
7.5°	4465.0	4252.2	3936.2	3768.9	3697.5	3653.4	3635.2	3629.1	3620.0	3598.8	3601.8
10°	4715.8	4417.9	4041.0	3878.4	3813.0	3764.4	3738.6	3729.5	3712.7	3688.4	3691.4
12.5°	5010.6	4623.1	4179.3	4009.1	3930.0	3864.7	3822.1	3796.3	3767.5	3735.5	3737.0
15°	5332.7	4846.5	4328.2	4126.1	4018.2	3927.0	3858.7	3814.6	3768.9	3729.5	3728.0
17.5°	5659.5	5062.2	4442.2	4189.9	4044.0	3924.0	3831.3	3762.9	3706.6	3658.0	3653.4
20°	6012.1	5256.8	4506.0	4183.9	3995.4	3852.5	3729.5	3644.3	3582.0	3533.4	3525.8
22.5°	6370.8	5439.1	4516.7	4121.5	3887.5	3712.7	3583.6	3489.3	3425.5	3375.4	3357.1
25°	6699.0	5580.5	4472.6	4001.5	3737.0	3548.6	3422.4	3326.7	3275.0	3215.8	3197.5
27.5°	6998.4	5679.3	4384.4	3847.9	3568.4	3382.9	3264.4	3182.4	3126.1	3080.5	3065.4
30°	7267.4	5732.5	4240.0	3665.6	3395.1	3226.4	3126.1	3069.9	3021.3	2963.5	2952.8
32.5°	7522.7	5732.5	4054.7	3466.6	3223.3	3088.1	3028.8	2993.9	2939.2	2883.0	2867.8
35°	7778.0	5697.5	3835.8	3258.4	3065.4	2989.3	2986.3	2945.3	2861.7	2785.7	2766.0
37.5°	8047.0	5626.1	3589.6	3063.8	2936.1	2945.3	2971.1	2879.9	2761.4	2653.4	2624.6
40°	8351.0	5527.3	3334.3	2895.1	2828.3	2925.5	2930.1	2785.7	2554.7	2455.9	2430.0
42.5°	8708.1	5428.5	3097.2	2746.2	2743.1	2866.2	2852.6	2582.1	2443.7	2393.6	2379.9
45°	9177.7	5372.3	2872.3	2604.8	2676.2	2770.5	2720.3	2469.5	2411.9	2383.0	2370.8
47.5°	9917.8	5401.1	2665.6	2492.4	2609.4	2674.8	2474.1	2424.0	2383.0	2348.0	2335.9
50°	10844.9	5384.4	2498.4	2414.9	2533.4	2574.4	2363.1	2364.7	2343.4	2303.9	2285.6
52.5°	11542.4	5253.7	2390.5	2370.8	2466.6	2396.6	2293.3	2307.0	2296.4	2238.6	2218.9
55°	12215.7	5141.3	2335.9	2354.1	2417.9	2174.8	2211.2	2244.7	2234.0	2177.8	2168.6
57.5°	13053.0	5120.0	2302.4	2358.7	2376.8	2063.8	2132.2	2176.3	2168.6	2144.3	2139.8
60°	14078.9	5126.1	2272.0	2366.2	2331.3	1981.8	2057.7	2114.0	2118.5	2114.0	2110.9
62.5°	14642.7	4960.4	2196.0	2345.0	2250.7	1910.3	1980.2	2062.3	2063.8	2072.9	2071.4
65°	14164.0	4465.0	2054.7	2270.5	2115.5	1851.1	1913.4	2003.0	1980.2	2021.3	2021.3
66°	13699.0	4179.3	1984.8	2221.8	2057.7	1828.3	1892.1	1972.6	1943.8	1999.9	1999.9
67.5°	12749.1	3697.5	1858.6	2118.5	1975.6	1796.3	1867.8	1922.4	1882.9	1966.6	1960.4
70°	11013.6	2860.1	1604.9	1884.5	1840.4	1749.3	1834.3	1822.2	1764.4	1892.1	1867.8
72.5°	9285.6	2173.2	1288.7	1577.5	1635.2	1689.9	1787.2	1694.5	1621.5	1711.3	1658.1
75°	7205.1	1633.7	1018.2	1226.5	1381.5	1597.2	1731.0	1547.1	1442.2	1433.1	1404.2
77.5°	3895.1	1121.6	807.0	936.2	1097.3	1481.7	1693.0	1389.0	1230.9	1194.5	1171.7
80°	1542.5	729.5	586.6	709.7	767.5	1314.6	1601.8	1205.1	1015.2	978.7	943.8
82.5°	636.8	431.6	378.4	475.6	500.0	1124.6	1437.7	987.8	784.2	1085.1	1152.0
85°	273.6	237.1	224.9	246.2	282.6	788.7	1144.4	753.8	846.5	755.3	600.3
87.5°	82.1	100.3	95.8	94.2	103.3	188.5	609.4	419.5	621.5	235.6	176.2
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)