

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: P318854

Luminaire Tested: **GLEON-SA0C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51774 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

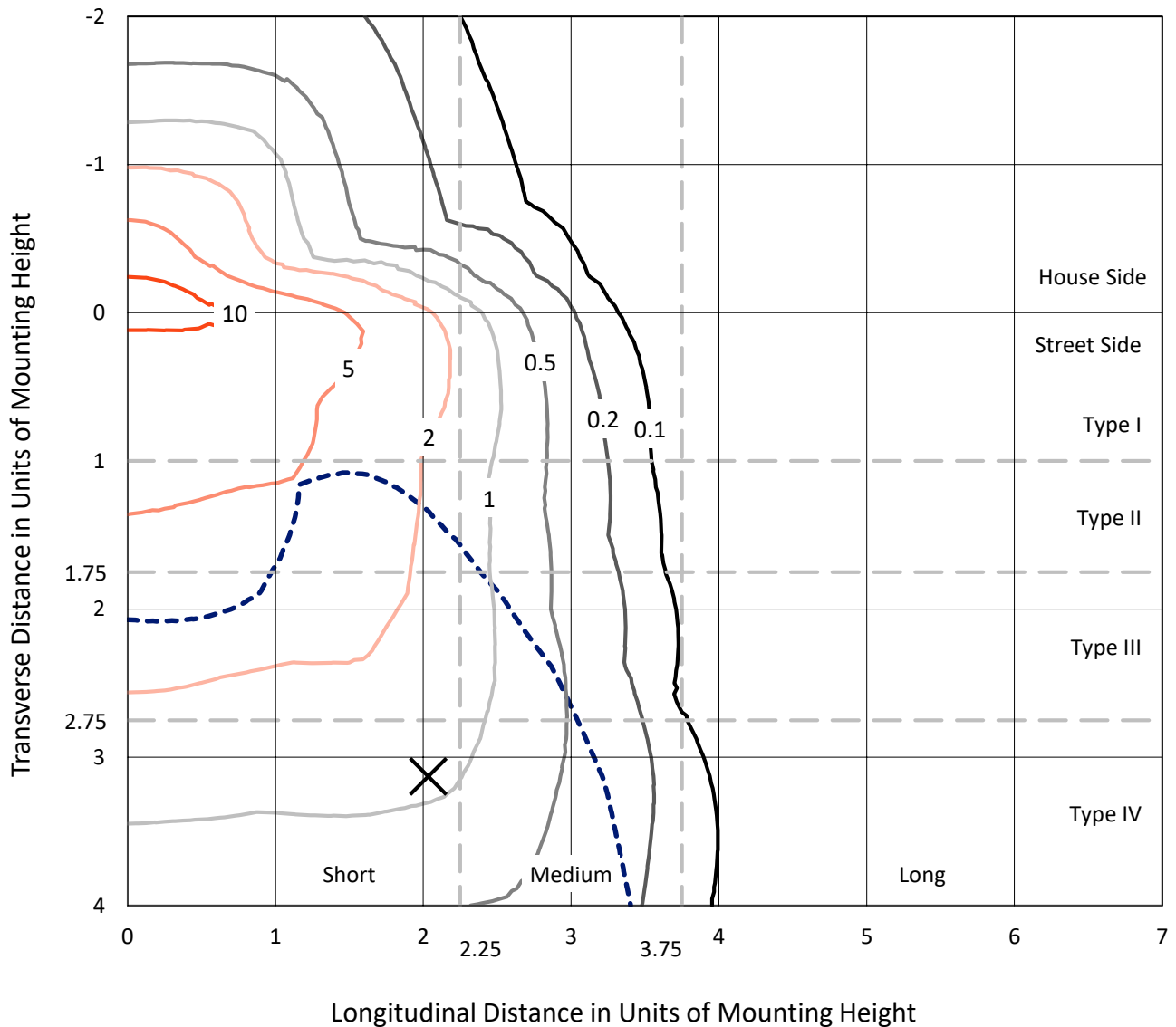
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

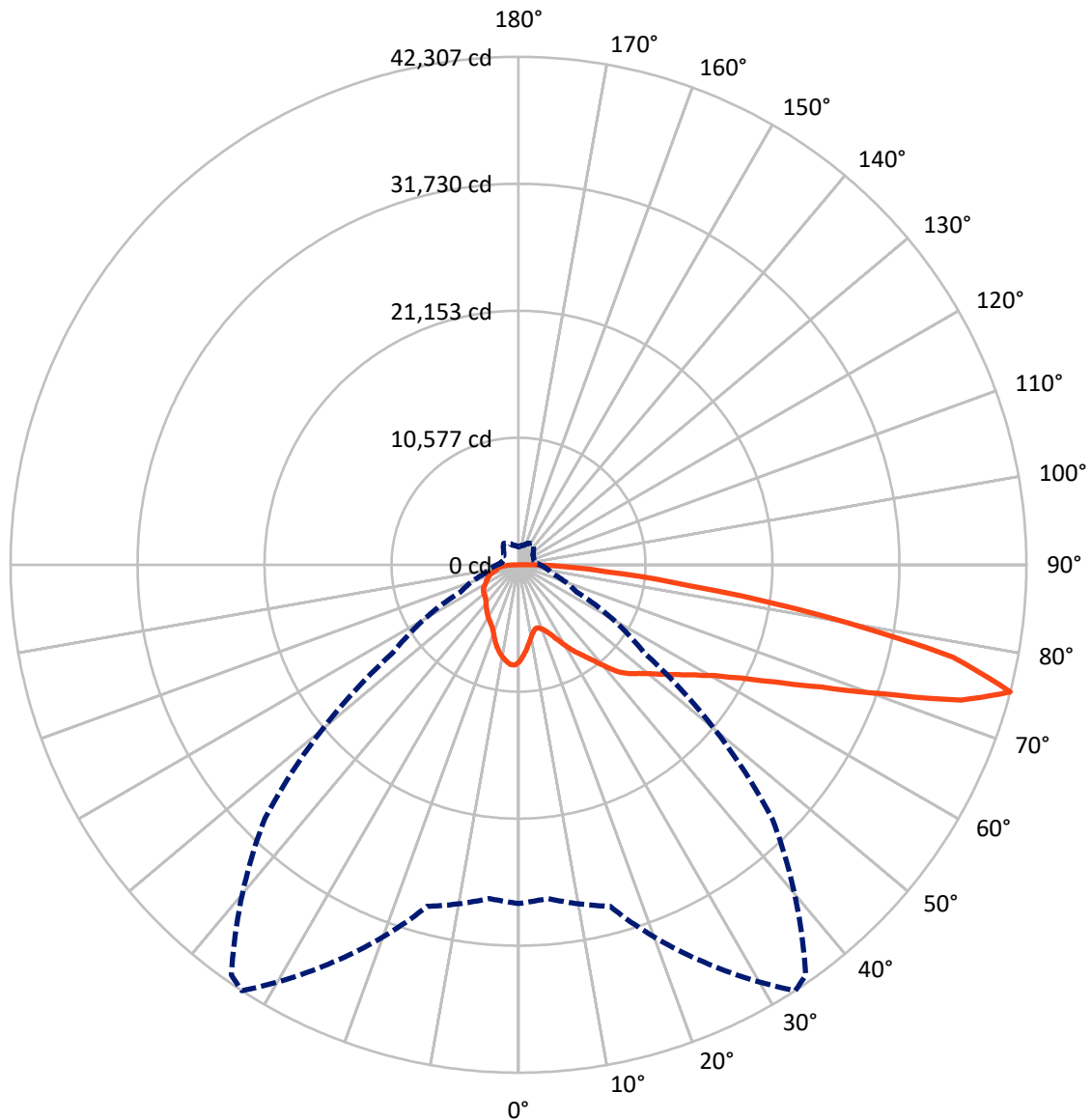
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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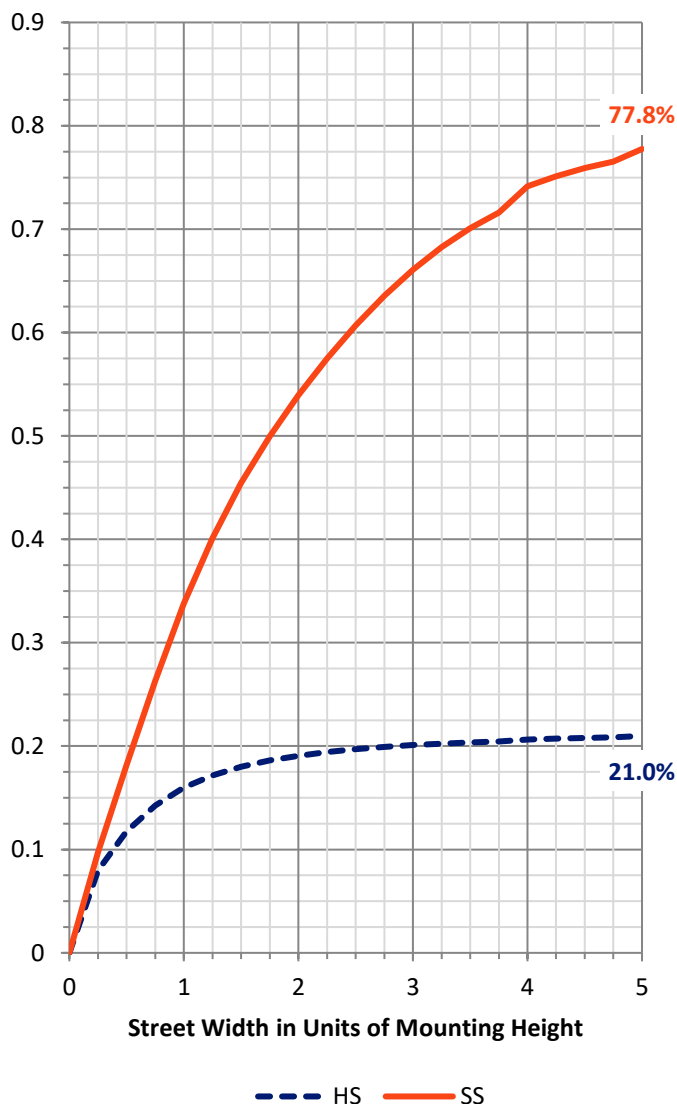
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11117.2	0.0	11117.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	40656.8	0.0	40656.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	51774.0	0.0	51774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.9	1.4
10°-20°	1982.2	3.8
20°-30°	3237.3	6.3
30°-40°	4821.0	9.3
40°-50°	6914.6	13.4
50°-60°	9492.7	18.3
60°-70°	11884.5	23.0
70°-80°	10751.3	20.8
80°-90°	1958.4	3.8
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°	51774.0	100.0
0°-180°	51774.0	100.0

Coefficient of Utilization

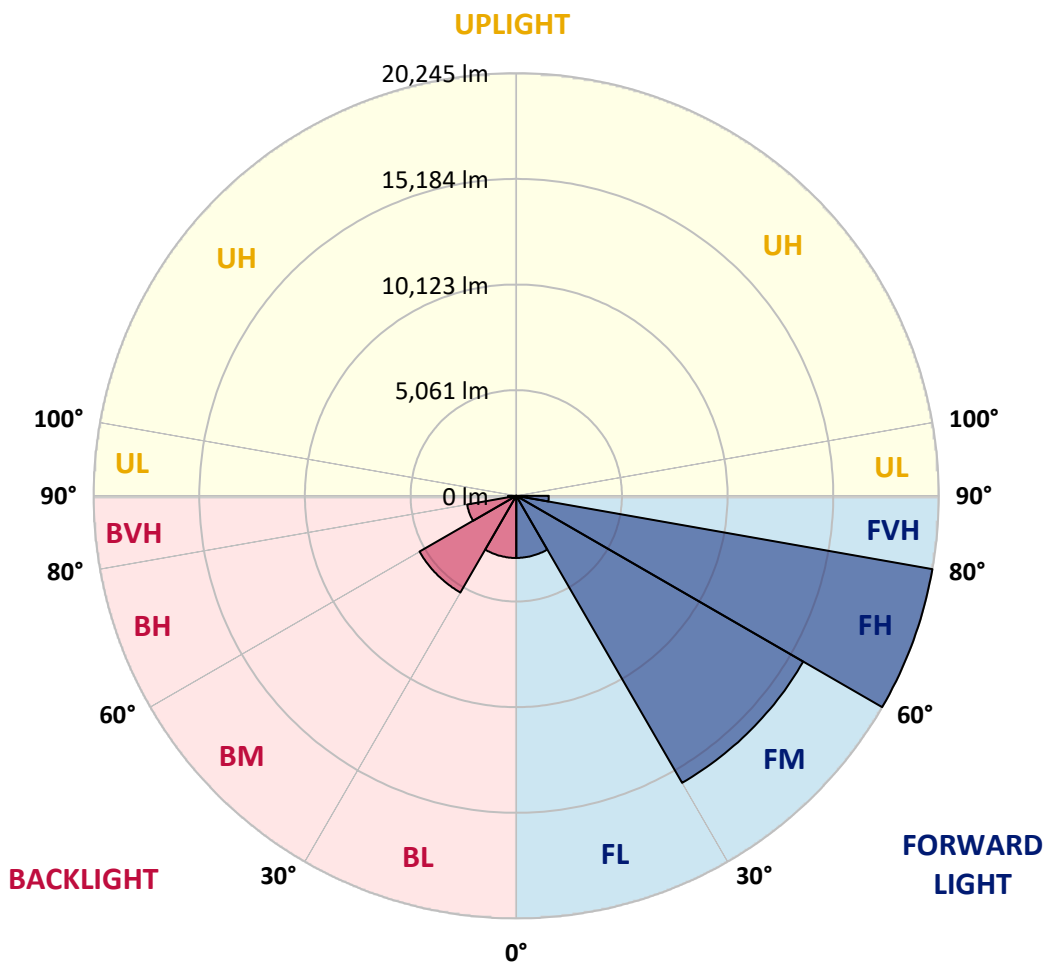


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2973.6	5.7			
FM (30°-60°)	15878.0	30.7			
FH (60°-80°)	20245.4	39.1			G5
FVH (80°-90°)	1559.7	3.0			G5
BL (0°-30°)	2977.7	5.8	B4/5000		
BM (30°-60°)	5350.4	10.3	B4/8500		
BH (60°-80°)	2390.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	398.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6
2.5°	7514.9	7486.3	7539.9	7547.1	7593.6	7611.5	7675.9	7776.0	7858.3	7953.1	8038.9
5°	6833.5	6813.9	6889.0	6942.6	7044.6	7087.5	7239.5	7452.3	7641.9	7856.5	8051.4
7.5°	6186.1	6175.4	6259.4	6381.1	6499.1	6558.1	6821.0	7130.4	7446.9	7793.9	8092.6
10°	5640.7	5637.1	5717.6	5837.4	6010.9	6077.0	6416.8	6824.6	7268.1	7745.6	8162.3
12.5°	5334.8	5347.4	5384.9	5485.1	5646.0	5712.2	6089.5	6568.8	7117.9	7729.5	8264.3
15°	5409.9	5429.6	5365.2	5361.7	5476.1	5528.0	5882.1	6386.4	7010.6	7756.3	8412.7
17.5°	5730.1	5733.7	5563.8	5456.4	5526.2	5553.0	5817.7	6282.7	6948.0	7817.2	8598.7
20°	6180.8	6171.8	5871.4	5692.5	5730.1	5737.2	5908.9	6284.5	6942.6	7922.7	8840.1
22.5°	6778.1	6711.9	6307.7	6064.5	6055.6	6044.8	6143.2	6416.8	7021.3	8094.4	9128.1
25°	7557.8	7495.2	6939.0	6606.4	6534.9	6508.0	6522.3	6699.4	7176.9	8278.6	9450.0
27.5°	8425.2	8316.1	7779.6	7309.2	7160.8	7123.2	7037.4	7098.2	7346.8	8455.6	9832.7
30°	9151.3	9092.3	8623.7	8065.7	7890.5	7836.8	7611.5	7545.3	7591.8	8697.0	10315.6
32.5°	9557.3	9517.9	9233.6	8782.9	8620.1	8545.0	8226.7	8094.4	7985.3	9078.0	10970.1
35°	10049.1	10024.1	9852.4	9525.1	9283.6	9205.0	8958.2	8820.5	8539.7	9602.0	11816.0
37.5°	10675.0	10648.2	10651.8	10387.1	10099.2	10025.8	9863.1	9718.2	9258.6	10290.5	12735.3
40°	11383.2	11331.4	11311.7	11299.2	11116.8	11075.6	10989.8	10793.1	10160.0	11113.2	13642.0
42.5°	12449.1	12264.9	11871.5	12019.9	12200.5	12179.1	12248.8	11966.3	11161.5	12086.1	14527.3
45°	13477.5	13175.2	12495.6	12527.8	12923.1	13042.9	13565.1	13364.8	12247.0	13152.0	15442.9
47.5°	13946.0	13717.1	13139.5	13141.3	13532.9	13781.5	14926.1	14783.0	13388.1	14362.7	16560.7
50°	14470.0	14241.1	13722.5	13917.4	14259.0	14523.7	16240.6	16167.2	14473.6	15688.0	17900.2
52.5°	15042.3	14654.3	14325.2	14673.9	15153.2	15460.8	17556.8	17356.5	15469.8	17022.1	19440.0
55°	15049.5	14944.0	15194.4	15450.1	16167.2	16544.6	18935.7	18406.3	16281.7	18333.0	20693.7
57.5°	15906.1	15734.5	16265.6	16383.6	17320.8	17746.4	20307.4	19320.2	17108.0	19338.1	21369.7
60°	17040.0	16893.3	17327.9	17639.1	18747.9	19316.6	21772.1	20259.1	17757.1	20096.4	21337.5
62.5°	18998.3	18832.0	18826.6	19263.0	20756.3	21418.0	23415.7	21180.2	18014.7	20246.6	20427.2
65°	21865.1	21600.4	21101.5	21308.9	23530.1	24190.1	25252.4	21847.2	17674.9	19441.8	18082.6
67.5°	24655.1	24646.1	24032.7	24458.3	27192.8	27722.2	27344.8	21913.4	16614.4	16639.4	13922.8
70°	27436.0	27471.8	27368.1	28848.9	32141.3	32692.2	29573.2	21024.6	14230.4	12016.3	8341.2
72.5°	29639.4	29630.4	30152.6	33970.9	38563.5	38440.1	31451.0	18331.2	10217.2	6486.6	3986.4
75°	28212.2	27901.0	29456.9	36506.9	42306.7	41704.0	29854.0	12787.1	5302.6	2952.7	2146.1
77.5°	18401.0	18696.1	20979.9	30158.0	37005.8	36272.6	21902.7	5966.1	2498.4	1936.9	1555.9
80°	6663.6	6974.8	9823.7	17082.9	25495.6	25375.8	10785.9	2451.9	1690.0	1462.9	1133.9
82.5°	2292.7	2407.2	3875.5	7586.4	14394.9	14931.5	4057.9	1393.2	1228.6	1037.3	776.2
85°	899.6	1030.1	1772.3	3650.1	7261.0	7314.6	1643.6	833.4	854.9	679.6	425.6
87.5°	341.6	414.9	847.7	1695.4	3315.7	3045.7	588.4	397.0	486.4	404.2	202.1
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°	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6	8092.6
2.5°	8105.1	8142.6	8221.3	8275.0	8332.2	8348.3	8355.5	8369.8	8384.1	8378.7	8380.5
5°	8155.2	8228.5	8355.5	8409.1	8434.2	8405.5	8350.1	8305.4	8273.2	8255.3	8249.9
7.5°	8237.4	8341.2	8477.1	8468.1	8410.9	8283.9	8140.9	8033.5	7944.1	7911.9	7894.1
10°	8346.5	8468.1	8562.9	8461.0	8294.7	8074.7	7860.1	7693.8	7559.6	7507.8	7498.8
12.5°	8486.0	8609.4	8627.3	8410.9	8135.5	7835.0	7543.5	7323.5	7123.2	7058.9	7044.6
15°	8666.6	8782.9	8672.0	8323.3	7938.8	7534.6	7157.2	6858.6	6647.5	6568.8	6540.2
17.5°	8856.2	8967.1	8681.0	8178.4	7681.2	7178.7	6704.8	6398.9	6157.5	6066.3	6055.6
20°	9083.3	9133.4	8643.4	7971.0	7327.1	6717.3	6218.3	5930.4	5801.6	5737.2	5730.1
22.5°	9364.1	9310.5	8557.6	7690.2	6878.2	6184.3	5778.4	5644.2	5612.0	5597.7	5603.1
25°	9661.0	9496.5	8430.6	7323.5	6311.3	5651.4	5456.4	5494.0	5536.9	5531.6	5531.6
27.5°	9988.3	9686.0	8235.6	6837.1	5683.6	5215.0	5238.3	5376.0	5440.4	5438.6	5436.8
30°	10408.6	9900.7	7987.1	6252.3	5097.0	4907.4	5048.7	5216.8	5304.4	5300.9	5302.6
32.5°	10925.4	10136.7	7649.0	5599.5	4673.1	4680.3	4843.0	5009.3	5111.3	5102.3	5104.1
35°	11529.9	10401.4	7191.2	4955.7	4392.3	4499.6	4628.4	4744.7	4841.2	4828.7	4816.2
37.5°	12188.0	10660.7	6583.1	4379.8	4163.4	4331.5	4438.8	4458.5	4503.2	4471.0	4447.8
40°	12814.0	10859.2	5799.8	3907.7	3932.7	4188.5	4258.2	4179.5	4099.0	4088.3	4056.1
42.5°	13359.4	10925.4	5007.6	3530.3	3689.5	4038.2	4081.2	3916.6	3771.8	3703.8	3675.2
45°	13935.3	10948.7	4268.9	3213.8	3455.2	3904.1	3950.6	3730.6	3526.7	3380.1	3331.8
47.5°	14688.2	11116.8	3694.9	2979.5	3276.4	3814.7	3880.9	3582.2	3317.5	3108.3	3063.6
50°	15673.6	11449.4	3228.1	2800.7	3160.1	3755.7	3830.8	3437.3	3145.8	2893.7	2848.9
52.5°	16768.2	11755.2	2850.7	2655.8	3047.5	3651.9	3766.4	3333.6	2984.9	2695.1	2646.9
55°	17533.6	11521.0	2546.7	2505.6	2900.8	3503.5	3677.0	3246.0	2754.2	2502.0	2459.1
57.5°	17680.2	10719.7	2316.0	2350.0	2723.8	3317.5	3539.3	3051.0	2629.0	2417.9	2373.2
60°	17279.6	9603.8	2144.3	2206.9	2534.2	3083.2	3281.7	2913.3	2509.1	2328.5	2291.0
62.5°	16272.8	8461.0	2017.3	2078.1	2357.1	2845.4	3120.8	2768.5	2387.5	2226.6	2189.0
65°	14239.3	7103.6	1895.7	1963.7	2192.6	2639.7	2975.9	2634.3	2267.7	2144.3	2108.5
67.5°	10748.4	5320.5	1781.3	1842.1	2045.9	2460.9	2818.5	2502.0	2151.5	2072.8	2029.8
70°	6329.2	3331.8	1650.7	1715.1	1892.1	2274.9	2650.4	2357.1	2006.6	1970.8	1915.4
72.5°	2945.5	2004.8	1502.3	1564.9	1699.0	2026.3	2434.0	2167.6	1834.9	1756.2	1681.1
75°	1758.0	1466.5	1327.0	1382.4	1477.2	1761.6	2162.2	1974.4	1672.2	1568.4	1489.7
77.5°	1314.5	1121.3	1133.9	1192.9	1269.8	1541.6	1915.4	1822.4	1547.0	1466.5	1412.8
80°	946.1	851.3	924.6	989.0	1069.5	1402.1	1834.9	1684.7	1398.5	1291.2	1241.2
82.5°	631.3	611.6	695.7	761.9	840.6	1226.9	1724.0	1475.4	1194.7	1058.7	947.9
85°	348.7	368.4	468.6	497.2	565.1	863.8	1412.8	1185.7	899.6	724.3	692.1
87.5°	144.9	169.9	252.2	243.2	300.5	515.1	930.0	715.4	572.3	427.4	332.6
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)