

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: P319174

Luminaire Tested: **GLEON-SA0C-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
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-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51106 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

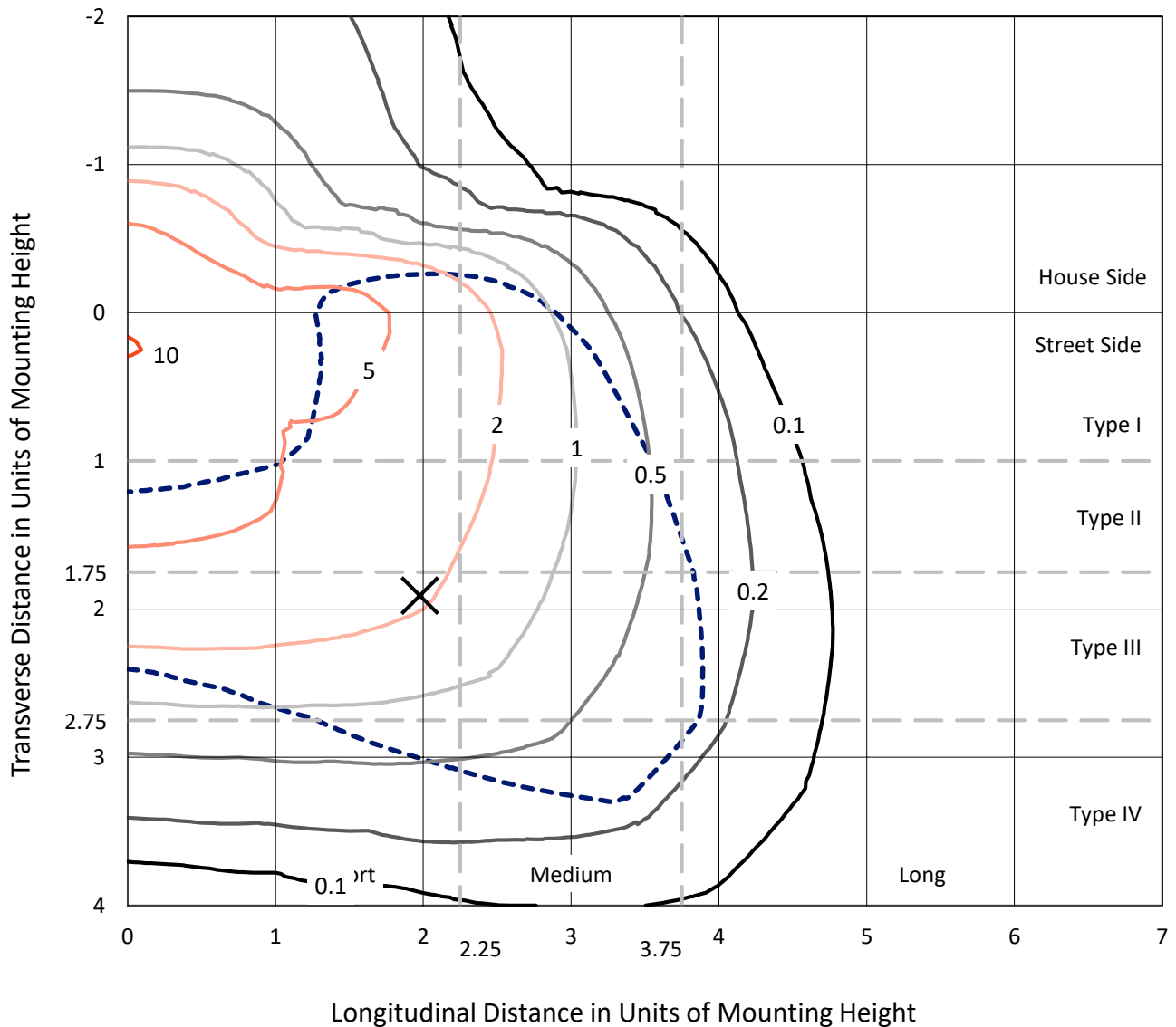
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

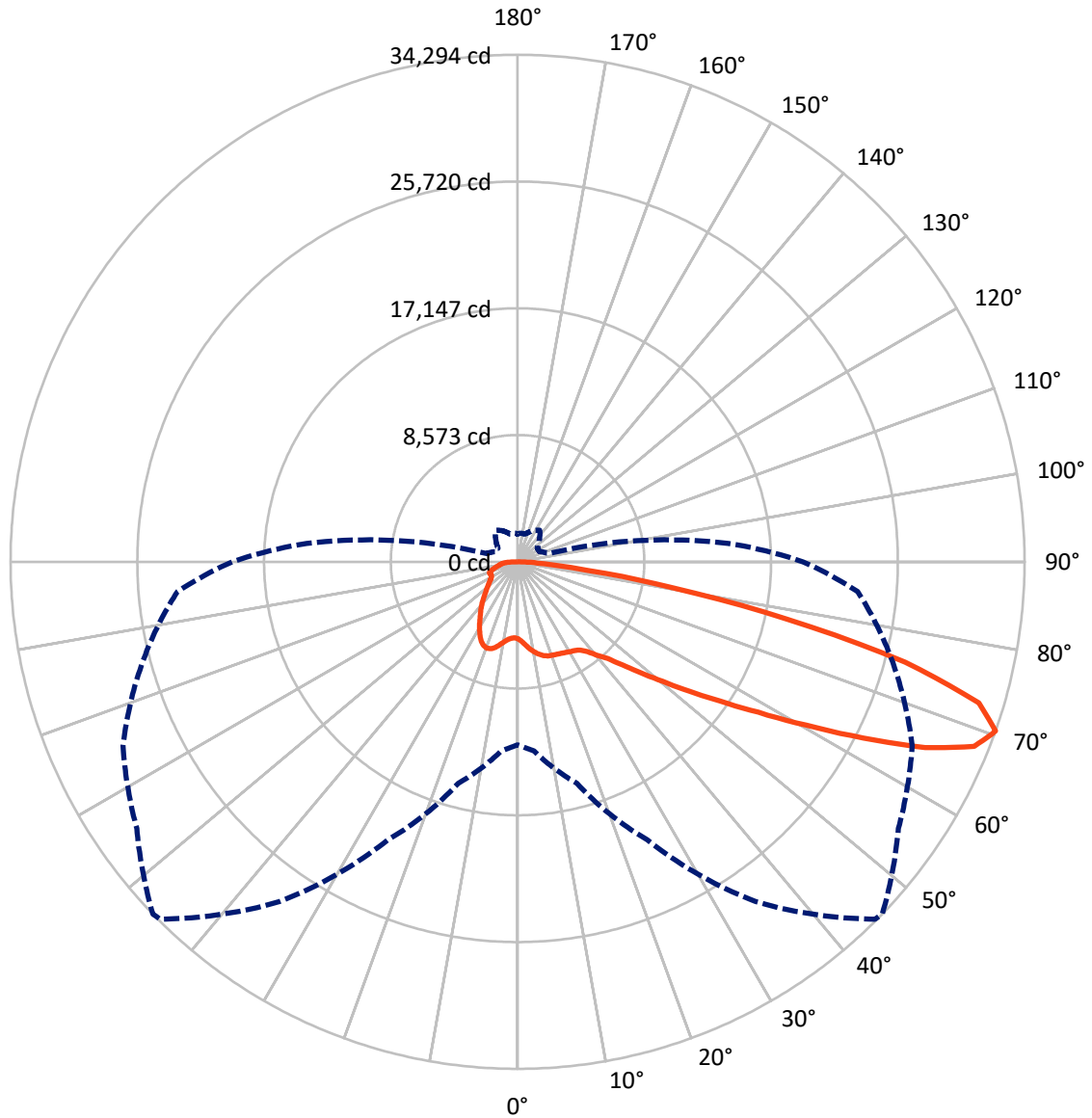
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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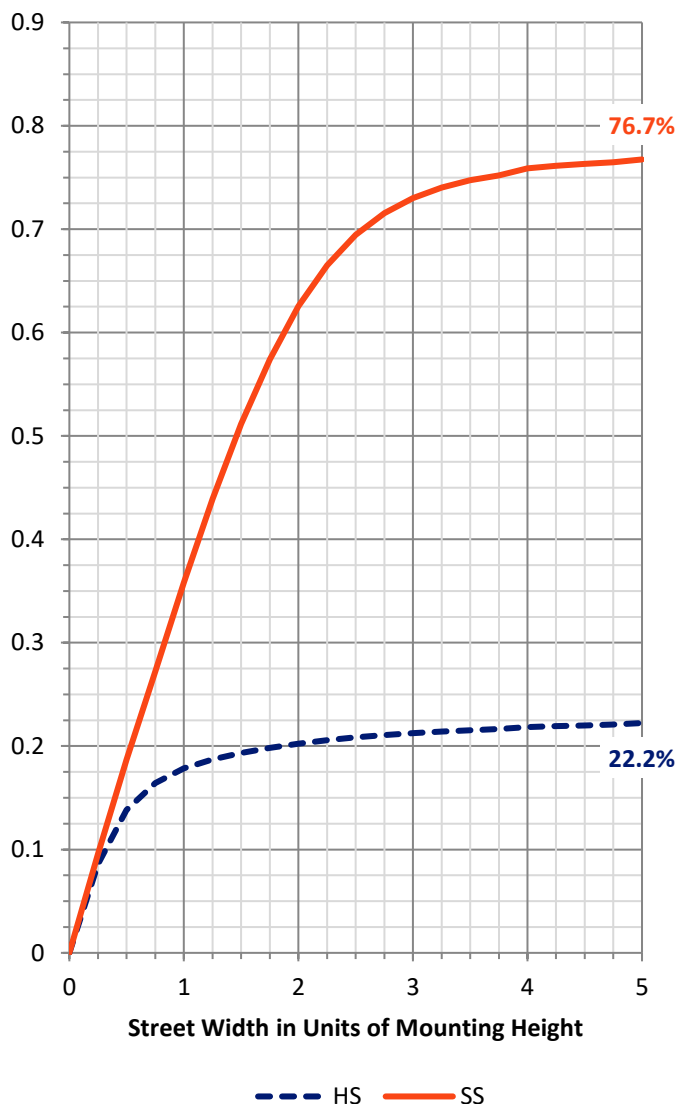
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11713.3	0.0	11713.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	39392.7	0.0	39392.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	51106.0	0.0	51106.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.8	1.0
10°-20°	1768.4	3.5
20°-30°	2948.6	5.8
30°-40°	4184.3	8.2
40°-50°	6154.9	12.0
50°-60°	10423.2	20.4
60°-70°	14795.6	29.0
70°-80°	8988.5	17.6
80°-90°	1311.8	2.6
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°	51106.0	100.0
0°-180°	51106.0	100.0

**Coefficient of Utilization**

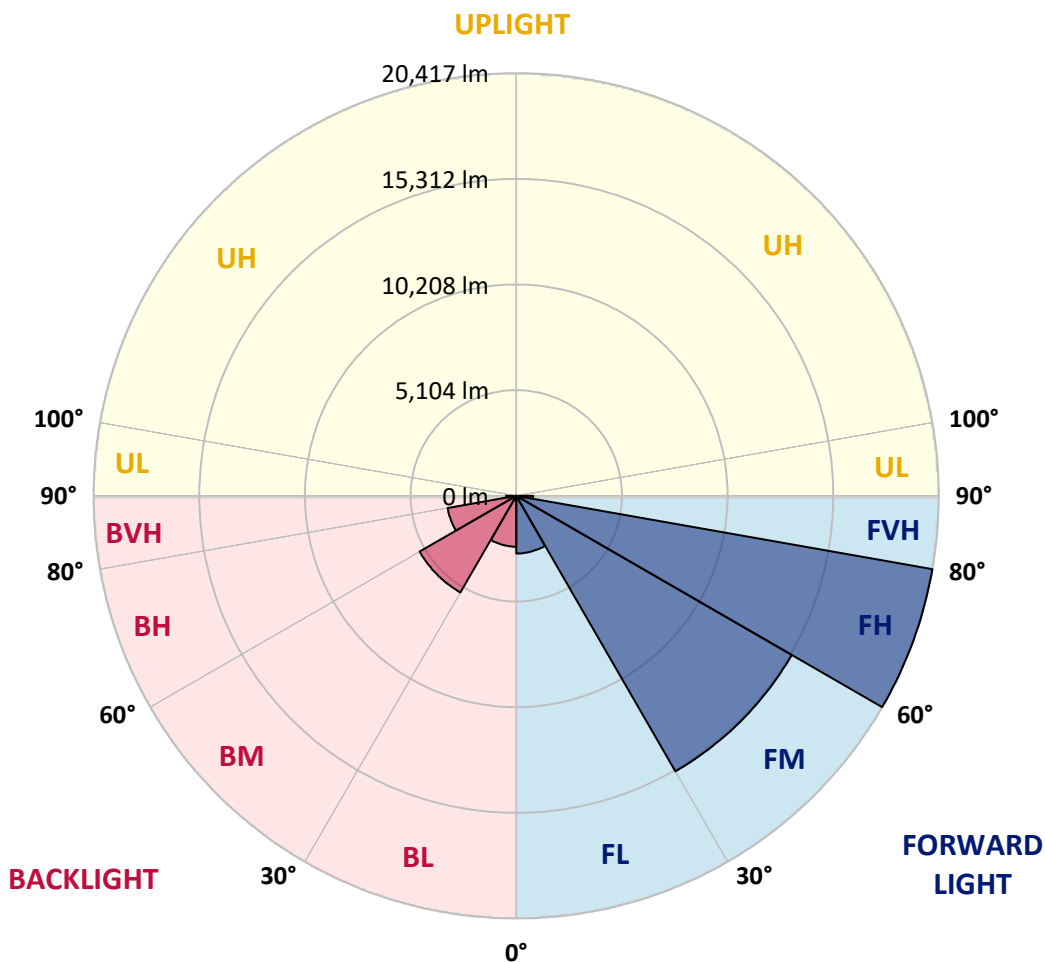


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2788.6	5.5			
FM (30°-60°)	15370.4	30.1			
FH (60°-80°)	20416.6	39.9			G5
FVH (80°-90°)	817.1	1.6			G5
BL (0°-30°)	2459.2	4.8	B3/2500		
BM (30°-60°)	5392.0	10.6	B4/8500		
BH (60°-80°)	3367.5	6.6	B4/5000		G4/5000
BVH (80°-90°)	494.6	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7
2.5°	5467.3	5470.8	5477.8	5460.3	5411.3	5397.3	5392.1	5341.4	5308.1	5259.2	5217.2
5°	5904.5	5908.0	5897.5	5848.6	5740.1	5659.7	5652.7	5537.3	5432.3	5320.4	5236.4
7.5°	6361.0	6366.3	6333.0	6240.3	6088.2	5948.3	5939.5	5782.1	5623.0	5453.3	5327.4
10°	6765.0	6744.1	6689.8	6560.4	6380.3	6208.9	6201.9	6037.5	5853.8	5649.2	5481.3
12.5°	7034.4	7016.9	6946.9	6789.5	6591.9	6434.5	6420.5	6268.3	6089.9	5866.1	5664.9
15°	7183.0	7195.3	7100.8	6922.4	6730.1	6597.1	6584.9	6476.5	6317.3	6091.7	5860.8
17.5°	7202.3	7212.8	7121.8	6945.2	6787.8	6696.8	6691.6	6619.9	6504.4	6287.6	6046.2
20°	7090.3	7097.3	7022.1	6877.0	6773.8	6745.8	6744.1	6712.6	6626.9	6434.5	6200.1
22.5°	6927.7	6932.9	6878.7	6773.8	6738.8	6782.5	6794.8	6782.5	6721.3	6541.2	6320.8
25°	6887.5	6884.0	6828.0	6721.3	6751.0	6843.7	6859.5	6864.7	6822.8	6665.3	6474.7
27.5°	7081.6	7069.4	6962.7	6791.3	6810.5	6922.4	6943.4	6994.2	6967.9	6829.8	6649.6
30°	7643.0	7622.0	7403.4	7057.1	6962.7	7020.4	7046.6	7127.1	7132.3	7016.9	6882.2
32.5°	8591.0	8564.7	8173.0	7553.8	7219.8	7120.1	7144.6	7265.2	7330.0	7240.8	7095.6
35°	9789.0	9759.3	9245.1	8398.6	7650.0	7310.7	7328.2	7424.4	7553.8	7427.9	7235.5
37.5°	11037.8	10966.1	10471.1	9392.0	8333.9	7718.2	7718.2	7730.5	7791.7	7529.3	7399.9
40°	12279.6	12207.9	11760.1	10560.3	9218.9	8360.1	8319.9	8048.8	7999.8	7774.2	7730.5
42.5°	13433.9	13412.9	13148.8	11880.8	10257.7	8991.5	8935.5	8475.5	8486.0	8346.1	8347.9
45°	14661.7	14661.7	14446.5	13213.5	11468.0	10005.9	9949.9	9273.1	9378.0	9313.3	9469.0
47.5°	15663.8	15695.3	15665.6	14602.2	12876.0	11294.9	11193.4	10378.4	10672.3	10894.4	11347.4
50°	16687.0	16735.9	16741.2	16125.6	14577.7	12827.0	12711.6	11845.8	12501.7	13138.3	14028.5
52.5°	18171.9	18282.0	17843.1	17645.4	16662.5	14645.9	14532.2	13733.0	14827.8	15721.5	17255.4
55°	19548.3	19452.1	19139.0	19261.5	18894.2	16716.7	16631.0	15929.7	17419.8	18581.1	20573.2
57.5°	20293.4	20286.4	20601.2	21125.9	21300.8	19270.2	19198.5	18516.4	20342.3	21215.1	23688.1
60°	21167.9	21180.1	21960.1	23151.2	23871.8	22449.9	22418.4	21900.7	23180.9	23674.1	26131.4
62.5°	21290.3	21510.7	22853.9	24903.7	26278.4	26164.7	26234.6	24949.1	25720.4	25636.5	27955.6
65°	19882.4	20172.7	22603.8	25433.6	28671.0	30227.5	30292.3	28015.1	27723.0	27313.8	28608.0
67.5°	16996.5	17426.8	20067.7	24281.0	29459.7	33230.5	33321.5	30392.0	29384.5	27882.2	27037.4
70°	12368.8	12846.2	15504.7	20737.6	28053.6	34190.7	34293.9	31443.1	29447.5	26264.4	23081.2
72.5°	7471.6	7845.9	10037.4	15266.8	23677.6	32441.8	32625.4	30110.4	26885.3	22247.0	17043.8
75°	3281.1	3525.9	4853.4	8797.3	16951.1	26841.5	27070.6	25772.9	21844.7	16167.5	10074.1
77.5°	1397.4	1467.4	1990.3	3821.5	9582.6	18341.5	18656.3	18831.2	14820.8	8797.3	4257.0
80°	871.0	899.0	1126.3	1729.7	4484.4	10301.5	10640.8	11079.8	7359.7	3233.9	1486.6
82.5°	529.9	561.4	748.6	1045.9	2334.9	4669.8	4832.4	5142.0	2856.1	1397.4	769.5
85°	318.3	341.1	458.2	661.1	1329.2	1836.4	1834.7	2028.8	1345.0	899.0	405.8
87.5°	152.2	169.7	244.9	342.8	669.9	689.1	645.4	731.1	816.8	589.4	204.6
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°	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7
2.5°	5203.2	5196.2	5173.5	5156.0	5152.5	5142.0	5133.2	5138.5	5145.5	5147.2	5147.2
5°	5201.5	5182.2	5152.5	5140.2	5156.0	5177.0	5203.2	5238.2	5259.2	5274.9	5285.4
7.5°	5285.4	5248.7	5215.4	5208.5	5239.9	5295.9	5355.4	5428.8	5479.5	5514.5	5521.5
10°	5425.3	5379.8	5346.6	5353.6	5409.6	5490.0	5574.0	5668.4	5745.4	5792.6	5796.1
12.5°	5586.2	5542.5	5511.0	5540.8	5633.5	5731.4	5818.8	5901.0	5971.0	6018.2	6018.2
15°	5771.6	5740.1	5703.4	5771.6	5897.5	5985.0	6021.7	6062.0	6100.4	6135.4	6128.4
17.5°	5950.0	5920.3	5901.0	5981.5	6112.7	6152.9	6128.4	6098.7	6098.7	6117.9	6121.4
20°	6103.9	6077.7	6089.9	6168.6	6236.8	6194.9	6103.9	6009.5	5971.0	5981.5	5992.0
22.5°	6238.6	6226.4	6263.1	6299.8	6250.8	6103.9	5936.0	5808.3	5761.1	5757.6	5761.1
25°	6396.0	6394.3	6439.7	6373.3	6156.4	5885.3	5659.7	5535.5	5509.3	5530.3	5565.2
27.5°	6591.9	6611.1	6633.9	6390.8	5964.0	5554.7	5325.6	5239.9	5266.2	5316.9	5350.1
30°	6842.0	6894.5	6845.5	6347.0	5687.7	5177.0	4958.3	4933.9	5005.6	5077.3	5112.3
32.5°	7085.1	7167.3	7048.4	6233.3	5330.9	4776.5	4606.8	4599.8	4687.3	4757.2	4806.2
35°	7281.0	7443.6	7200.5	6007.7	4918.1	4407.4	4283.2	4236.0	4267.5	4349.7	4405.7
37.5°	7536.3	7807.4	7305.5	5663.2	4470.4	4103.1	3957.9	3849.5	3821.5	3854.7	3882.7
40°	8003.3	8361.9	7354.4	5182.2	4033.1	3798.8	3651.9	3492.7	3382.5	3302.1	3303.8
42.5°	8765.9	9084.2	7323.0	4598.1	3629.1	3501.4	3335.3	3151.7	2973.3	2791.4	2777.4
45°	10004.1	10158.1	7228.5	3978.9	3274.1	3190.1	3034.5	2850.8	2613.0	2406.6	2387.4
47.5°	11985.7	11644.7	7081.6	3438.5	2961.0	2926.0	2782.6	2571.0	2319.1	2153.0	2139.0
50°	14687.9	13790.7	7009.9	3008.2	2684.7	2695.2	2578.0	2354.1	2116.3	1993.8	1979.8
52.5°	17920.0	16290.0	7148.1	2675.9	2462.6	2499.3	2411.8	2202.0	2002.6	1906.4	1892.4
55°	21272.8	18878.4	7296.7	2434.6	2252.7	2324.4	2294.7	2121.5	1941.4	1852.2	1839.9
57.5°	24142.9	20811.1	6999.4	2238.7	2065.5	2177.5	2203.7	2070.8	1909.9	1829.4	1815.4
60°	25949.6	21589.4	6219.4	2055.0	1916.9	2060.3	2151.2	2056.8	1922.1	1915.1	1904.6
62.5°	26806.6	21521.1	5049.3	1909.9	1824.2	2009.6	2189.7	2135.5	2062.0	2125.0	2130.3
65°	26421.8	20492.7	3760.3	1813.7	1757.7	2028.8	2305.2	2284.2	2102.3	2165.2	2174.0
67.5°	23889.3	18038.9	2784.4	1729.7	1684.3	2083.0	2515.0	2333.1	2023.6	2069.0	2041.1
70°	19308.7	14301.4	2147.7	1635.3	1609.1	2076.0	2609.5	2303.4	1937.9	1948.4	1873.2
72.5°	13315.0	9752.3	1747.2	1547.8	1500.6	1892.4	2543.0	2229.9	1866.2	1785.7	1686.0
75°	7240.8	5234.7	1484.9	1456.9	1310.0	1661.5	2420.6	2177.5	1801.4	1694.8	1638.8
77.5°	2849.1	2172.2	1289.0	1332.7	1145.6	1467.4	2284.2	2077.8	1712.2	1572.3	1544.3
80°	1163.1	1108.9	1068.6	1152.6	984.7	1283.7	2119.8	1960.6	1605.6	1458.6	1402.7
82.5°	659.4	689.1	830.8	909.5	799.3	1182.3	2041.1	1866.2	1477.9	1306.5	1240.0
85°	337.6	404.0	578.9	652.4	587.7	1005.7	1880.1	1633.5	1185.8	1000.4	1005.7
87.5°	162.7	225.6	365.5	409.3	381.3	727.6	1404.4	1184.1	923.5	731.1	708.3
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)