

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: P383195

Luminaire Tested: **GLEON-SA5B-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26609.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

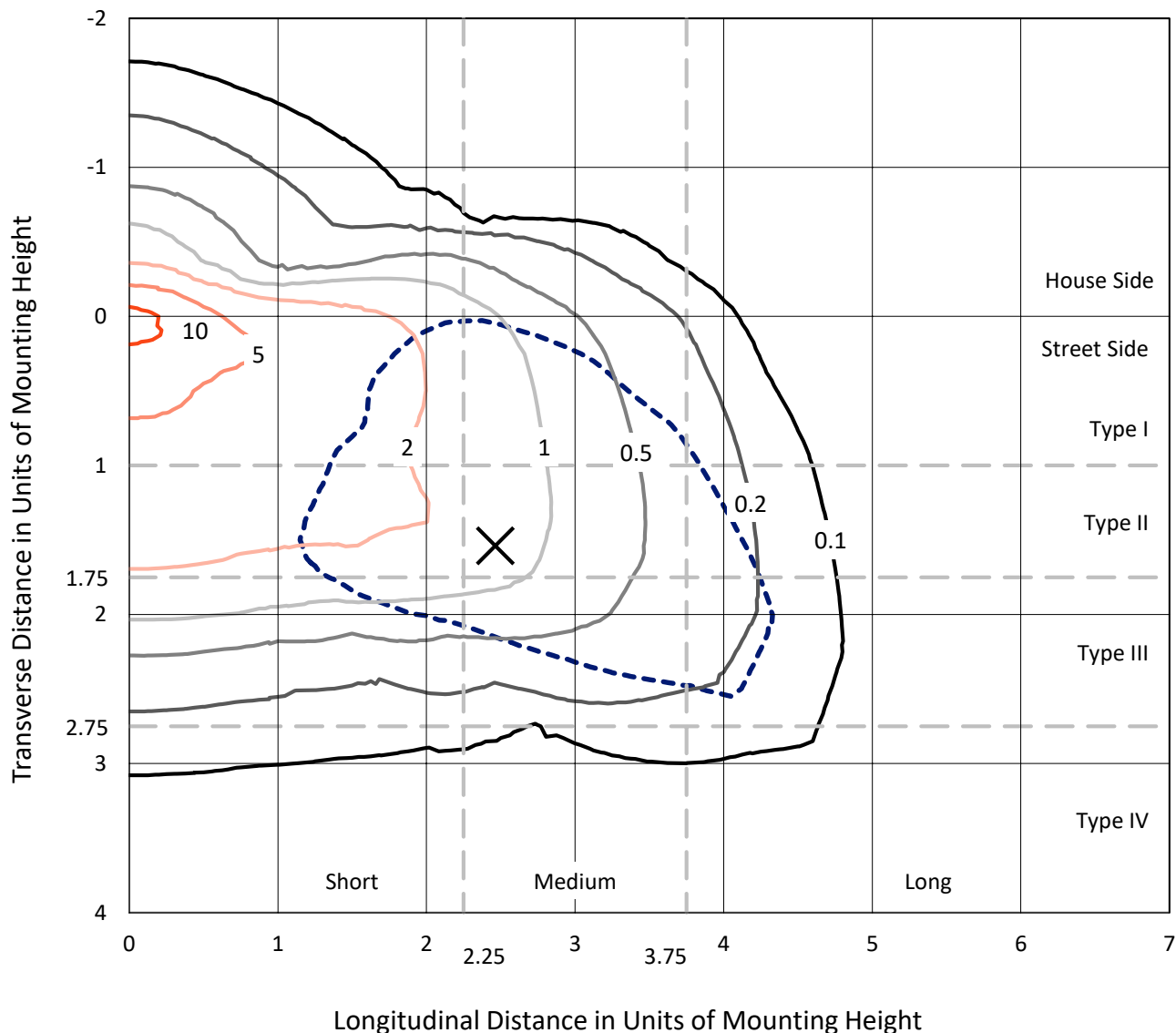
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

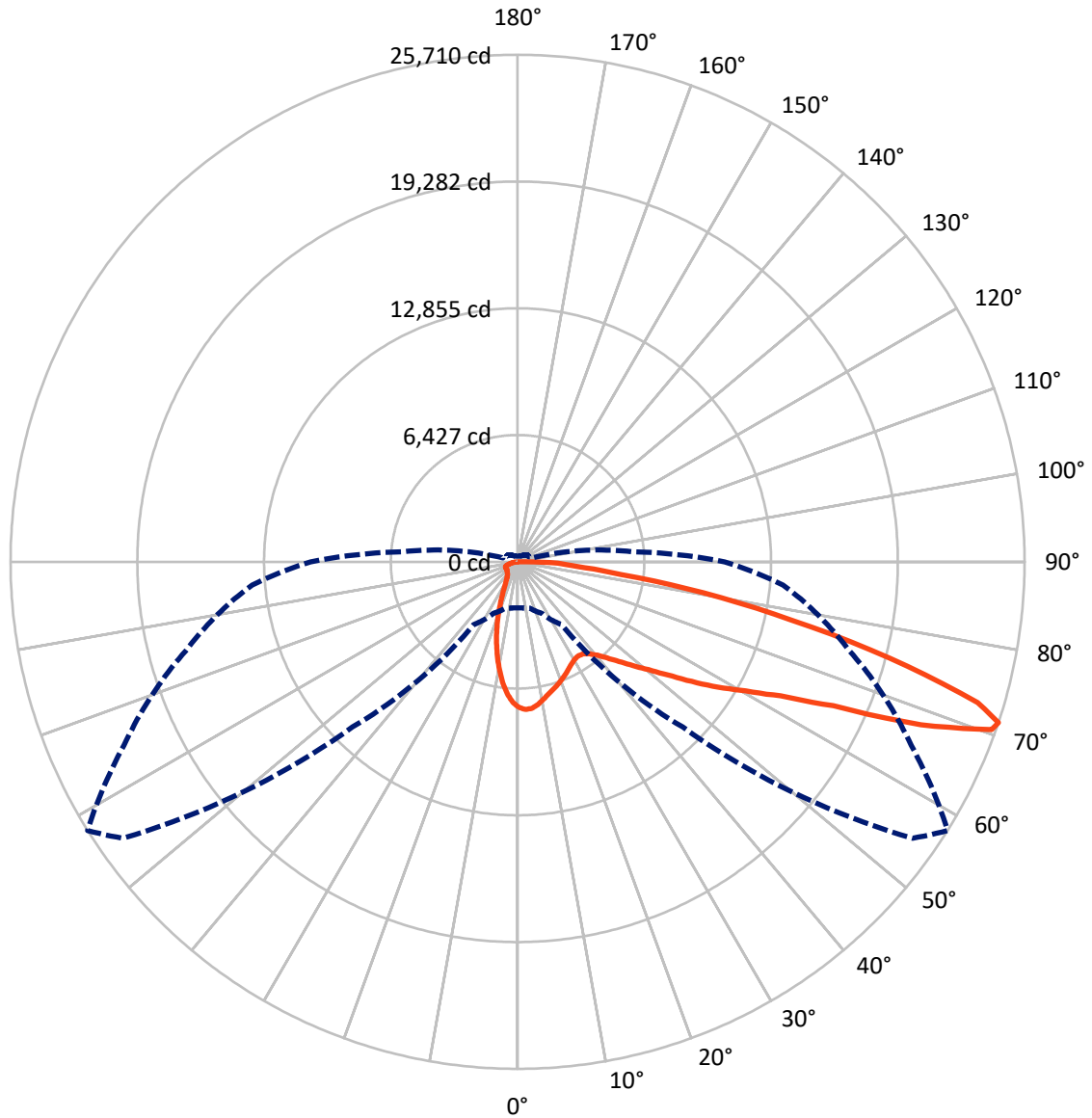
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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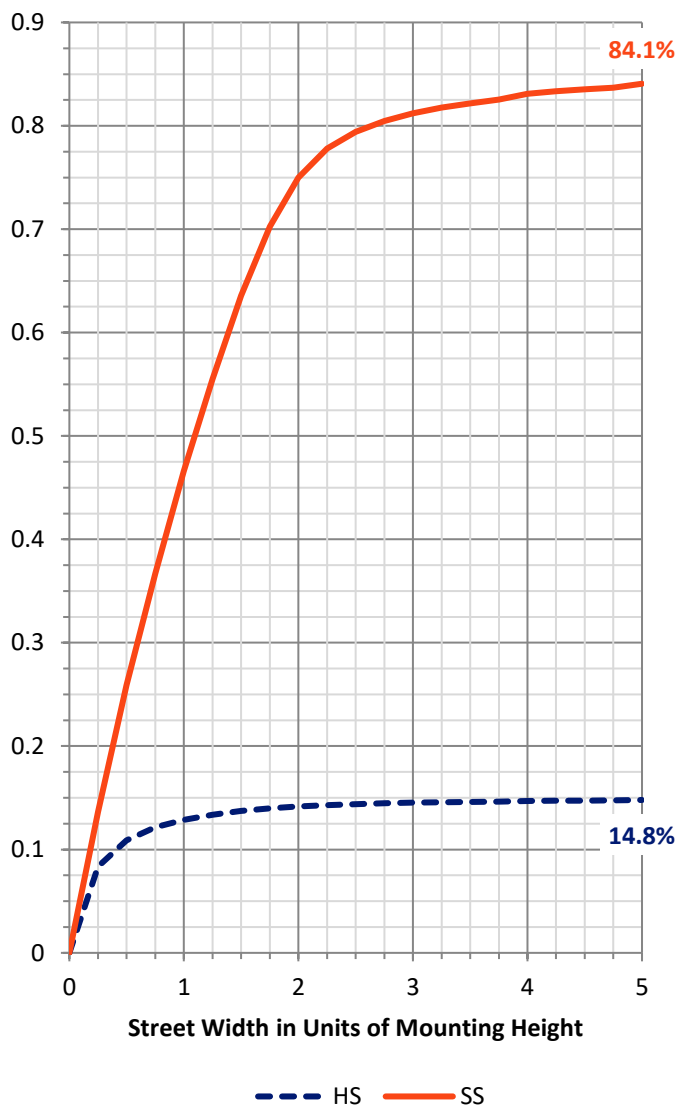
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3978.3	0.0	3978.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22631.3	0.0	22631.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	26609.7	0.0	26609.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.0	2.4
10°-20°	1414.3	5.3
20°-30°	1797.4	6.8
30°-40°	2289.6	8.6
40°-50°	3246.7	12.2
50°-60°	5024.5	18.9
60°-70°	6840.1	25.7
70°-80°	4563.2	17.1
80°-90°	797.8	3.0
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°	26609.7	100.0
0°-180°	26609.7	100.0

Coefficient of Utilization

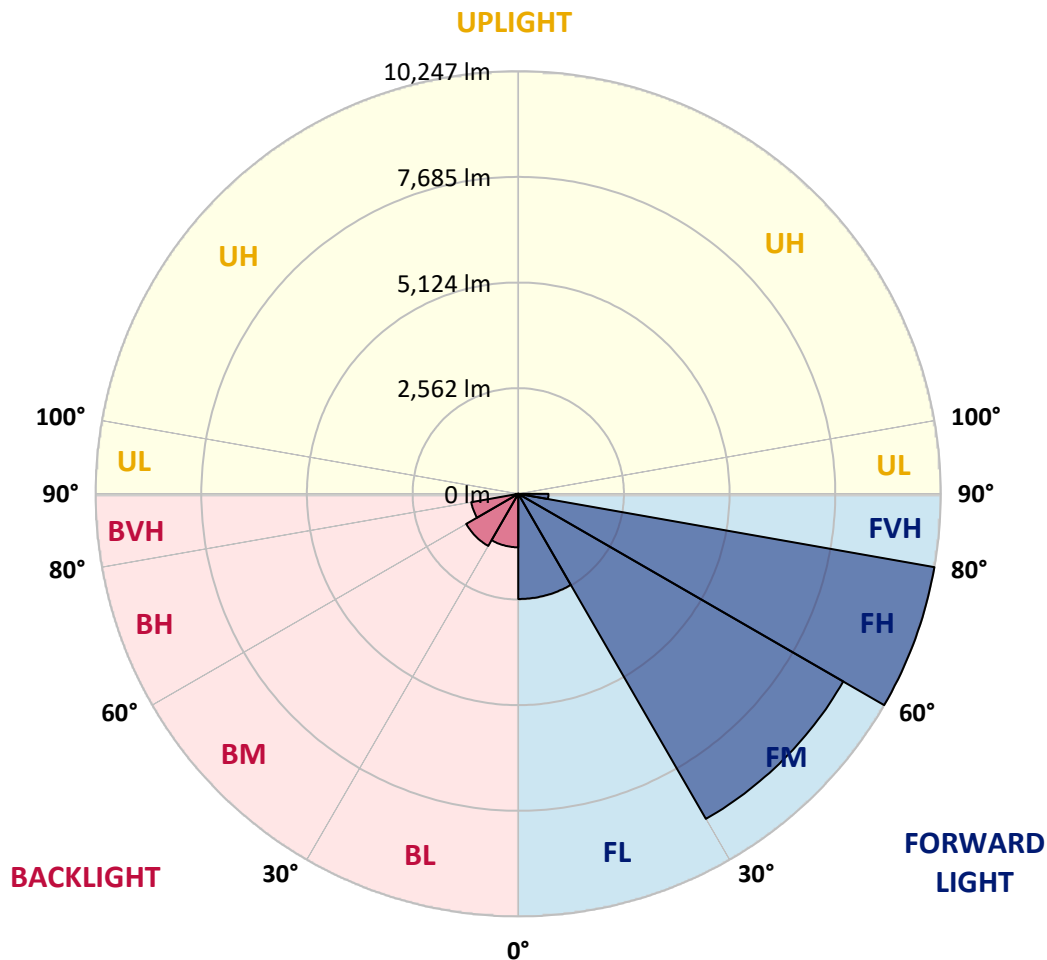


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.0	9.6			
FM (30°-60°)	9101.8	34.2			
FH (60°-80°)	10247.1	38.5			G4/12000
FVH (80°-90°)	731.5	2.7			G4/750
BL (0°-30°)	1296.8	4.9	B3/2500		
BM (30°-60°)	1459.0	5.5	B2/2500		
BH (60°-80°)	1156.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	66.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6
2.5°	7568.3	7558.0	7561.7	7554.3	7536.7	7519.1	7493.2	7497.7	7461.6	7407.9	7341.2
5°	7425.5	7421.8	7449.6	7465.3	7478.3	7468.1	7460.7	7470.0	7417.2	7343.0	7227.1
7.5°	7126.1	7085.4	7120.6	7173.4	7223.4	7261.4	7311.4	7318.0	7284.6	7206.7	7054.7
10°	6700.6	6661.7	6713.7	6796.1	6896.2	6987.1	7088.1	7106.6	7113.1	7042.7	6858.2
12.5°	6259.4	6229.8	6281.7	6397.6	6563.5	6703.4	6864.7	6892.5	6950.0	6902.7	6676.6
15°	5864.6	5853.5	5916.4	6030.5	6221.4	6435.5	6668.2	6719.2	6816.5	6800.8	6534.7
17.5°	5523.4	5520.7	5568.9	5688.5	5899.8	6170.5	6472.6	6558.8	6703.4	6722.0	6417.9
20°	5269.5	5263.9	5297.3	5385.4	5603.2	5910.0	6261.3	6379.9	6588.5	6653.4	6297.4
22.5°	5133.2	5132.3	5133.2	5174.9	5353.0	5638.4	6055.5	6200.1	6476.3	6598.7	6164.0
25°	5110.1	5107.3	5086.9	5082.2	5183.3	5411.3	5851.6	6011.0	6369.7	6560.7	6037.0
27.5°	5170.3	5174.0	5147.2	5103.6	5124.0	5262.0	5674.5	5845.1	6284.5	6553.3	5949.0
30°	5295.5	5293.6	5270.4	5225.0	5185.2	5206.4	5548.5	5719.1	6227.0	6585.7	5888.7
32.5°	5433.5	5443.8	5439.1	5414.1	5354.7	5269.5	5510.5	5677.3	6210.3	6663.5	5862.7
35°	5599.4	5610.6	5644.0	5663.4	5593.9	5456.7	5592.1	5736.7	6258.5	6810.0	5904.4
37.5°	5757.1	5785.7	5879.4	5961.9	5902.6	5749.6	5808.9	5911.9	6407.7	7040.8	6016.6
40°	5938.7	5963.8	6116.7	6291.9	6282.6	6124.1	6158.4	6227.0	6671.0	7371.7	6219.6
42.5°	6117.7	6167.7	6389.2	6637.6	6709.0	6569.0	6623.7	6659.8	7041.8	7810.2	6573.7
45°	6355.9	6409.6	6717.3	7016.7	7183.5	7104.8	7191.9	7205.8	7508.0	8407.1	7088.1
47.5°	6716.4	6777.6	7136.3	7450.5	7705.4	7713.8	7857.4	7851.8	8090.1	9090.2	7736.0
50°	7278.1	7366.1	7660.0	7953.8	8263.4	8435.8	8627.7	8600.8	8788.0	9817.9	8482.2
52.5°	8014.1	8054.9	8272.7	8489.6	8874.3	9260.8	9536.1	9511.9	9579.7	10565.9	9329.4
55°	8776.9	8807.5	8897.4	9016.1	9533.3	10163.6	10745.7	10707.7	10536.2	11342.6	10166.4
57.5°	9462.8	9525.0	9587.0	9636.2	10197.0	11107.2	11983.1	11985.9	11574.4	12180.5	11031.2
60°	9569.4	9624.1	10034.7	10422.2	11332.5	12365.9	13307.6	13279.9	12648.6	13089.8	11995.2
62.5°	8459.0	8582.3	9268.2	10298.9	12426.2	14668.3	14997.5	14963.2	13933.3	14210.5	13117.7
65°	6062.0	6202.0	7029.7	8578.5	11896.0	17205.3	18047.0	17585.4	15685.2	15588.8	14432.0
67.5°	3497.2	3530.6	3889.3	5133.2	9057.8	17337.9	22699.1	22053.1	18405.7	17152.5	15075.3
70°	2586.1	2585.1	2670.5	3158.9	4901.5	14150.2	24911.6	25491.0	21269.8	17666.9	14166.0
71°	2338.6	2341.4	2436.8	2875.3	3881.9	11844.1	24441.8	25709.8	22024.3	17413.0	13507.9
72.5°	2000.3	2009.5	2142.1	2578.7	3265.5	8167.9	22417.3	24397.2	22382.1	16786.4	12478.1
75°	1517.4	1538.6	1722.2	2173.6	2984.7	4142.4	16452.7	19481.8	19883.1	14812.1	9271.9
77.5°	1082.6	1106.8	1314.3	1827.9	2837.3	3121.8	11018.2	14210.5	14632.2	9492.5	4182.2
80°	684.0	712.8	869.4	1454.3	2665.8	2964.3	6924.0	9551.8	7978.9	3037.5	1064.1
82.5°	401.3	423.6	539.5	950.1	2177.3	2854.9	4073.8	5294.5	3105.1	917.7	483.8
85°	232.7	242.9	336.5	605.3	1581.3	2694.5	2993.0	2959.6	1347.8	448.6	229.0
87.5°	108.4	120.5	199.3	316.1	877.8	1953.0	2365.5	2043.8	837.9	210.4	107.5
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°	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6	7372.6
2.5°	7308.7	7292.9	7227.1	7168.7	7107.5	7027.9	6939.8	6928.7	6874.9	6885.1	6866.5
5°	7164.1	7124.2	6965.7	6822.1	6652.5	6500.4	6335.5	6259.4	6150.1	6142.6	6114.9
7.5°	6957.4	6883.2	6637.6	6365.1	6092.6	5833.1	5576.3	5407.6	5235.2	5162.0	5155.5
10°	6724.7	6598.7	6237.2	5834.0	5441.0	5061.8	4694.8	4423.3	4178.5	4062.7	4058.0
12.5°	6504.2	6317.8	5821.9	5273.2	4735.6	4244.3	3741.0	3384.1	3077.4	2974.4	2930.9
15°	6316.9	6054.6	5417.8	4716.1	4063.6	3381.3	2808.5	2433.1	2149.5	2051.3	2032.7
17.5°	6135.3	5797.9	5003.4	4153.5	3364.7	2614.9	2041.0	1762.0	1611.0	1571.1	1570.2
20°	5954.5	5533.7	4570.6	3577.9	2689.0	1955.8	1569.3	1444.1	1393.1	1388.5	1381.1
22.5°	5749.6	5253.7	4115.5	3000.4	2098.5	1537.7	1333.8	1283.8	1277.2	1294.0	1294.0
25°	5557.8	4975.7	3653.9	2435.0	1632.3	1282.8	1191.1	1180.9	1198.5	1228.2	1230.9
27.5°	5378.8	4707.8	3203.4	1932.6	1307.9	1129.9	1091.9	1104.0	1135.5	1169.7	1170.7
30°	5231.5	4454.8	2765.9	1522.9	1104.9	1015.9	1009.4	1033.6	1067.8	1094.7	1101.2
32.5°	5117.5	4238.7	2343.2	1224.4	972.3	930.6	936.2	956.6	977.8	992.8	1002.9
35°	5064.6	4053.3	1953.0	1032.6	888.0	864.8	872.2	883.4	892.6	903.7	912.1
37.5°	5074.0	3909.7	1604.5	913.0	831.4	819.4	819.4	819.4	819.4	825.0	825.9
40°	5160.1	3827.3	1320.8	837.0	793.4	780.5	770.3	761.0	753.6	757.3	755.4
42.5°	5380.7	3819.8	1113.2	788.8	762.8	741.5	721.1	708.2	698.8	702.6	704.4
45°	5755.2	3912.5	973.3	754.5	734.2	701.6	675.7	661.8	655.3	667.4	669.2
47.5°	6240.0	4114.6	888.0	729.5	707.2	664.6	636.8	623.9	625.6	643.2	647.9
50°	6864.7	4442.6	847.2	713.8	688.7	633.1	604.4	593.2	598.8	623.9	629.4
52.5°	7550.7	4915.4	851.8	709.1	676.7	609.9	579.3	566.4	575.6	598.8	603.5
55°	8342.2	5483.6	928.8	715.6	659.1	595.1	558.9	536.7	544.1	565.4	569.1
57.5°	9221.9	6134.3	1083.6	713.8	636.8	581.2	537.6	504.2	509.8	522.8	526.5
60°	10137.7	6920.3	1323.6	719.2	626.6	564.5	508.9	467.2	465.3	476.4	478.3
62.5°	11237.0	7829.7	1598.0	723.0	633.1	543.2	470.9	430.1	424.5	427.3	429.2
65°	12369.6	8487.7	1495.1	708.2	653.5	525.6	437.5	394.0	383.7	381.8	382.8
67.5°	12404.9	7782.3	1048.4	678.5	661.8	516.3	412.5	363.3	346.6	340.2	339.3
70°	11124.8	6322.5	816.6	647.0	628.4	501.5	389.3	338.3	313.3	303.1	302.2
71°	10500.0	5820.1	773.9	631.2	603.5	486.6	379.1	327.2	301.3	290.1	288.3
72.5°	9520.3	5217.6	722.0	606.2	555.2	448.6	359.7	311.4	284.6	271.5	268.8
75°	6832.2	3412.0	620.1	540.4	459.7	357.8	315.1	279.9	256.7	241.0	239.1
77.5°	2632.5	1357.9	469.0	449.6	352.2	279.9	259.5	241.9	225.2	209.5	208.6
80°	813.8	607.1	342.1	338.3	254.9	208.6	202.1	197.4	191.0	174.3	170.6
82.5°	434.8	348.5	235.4	218.7	166.8	139.1	146.4	148.3	149.2	131.6	129.8
85°	207.6	184.4	132.6	124.2	97.3	77.9	89.9	97.3	98.3	80.7	75.1
87.5°	99.2	96.4	62.1	47.2	36.1	26.0	31.5	38.9	42.7	30.6	26.9
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)