

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: P383503

Luminaire Tested: **GLEON-SA8A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383503
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-SA8A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 34794.2 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

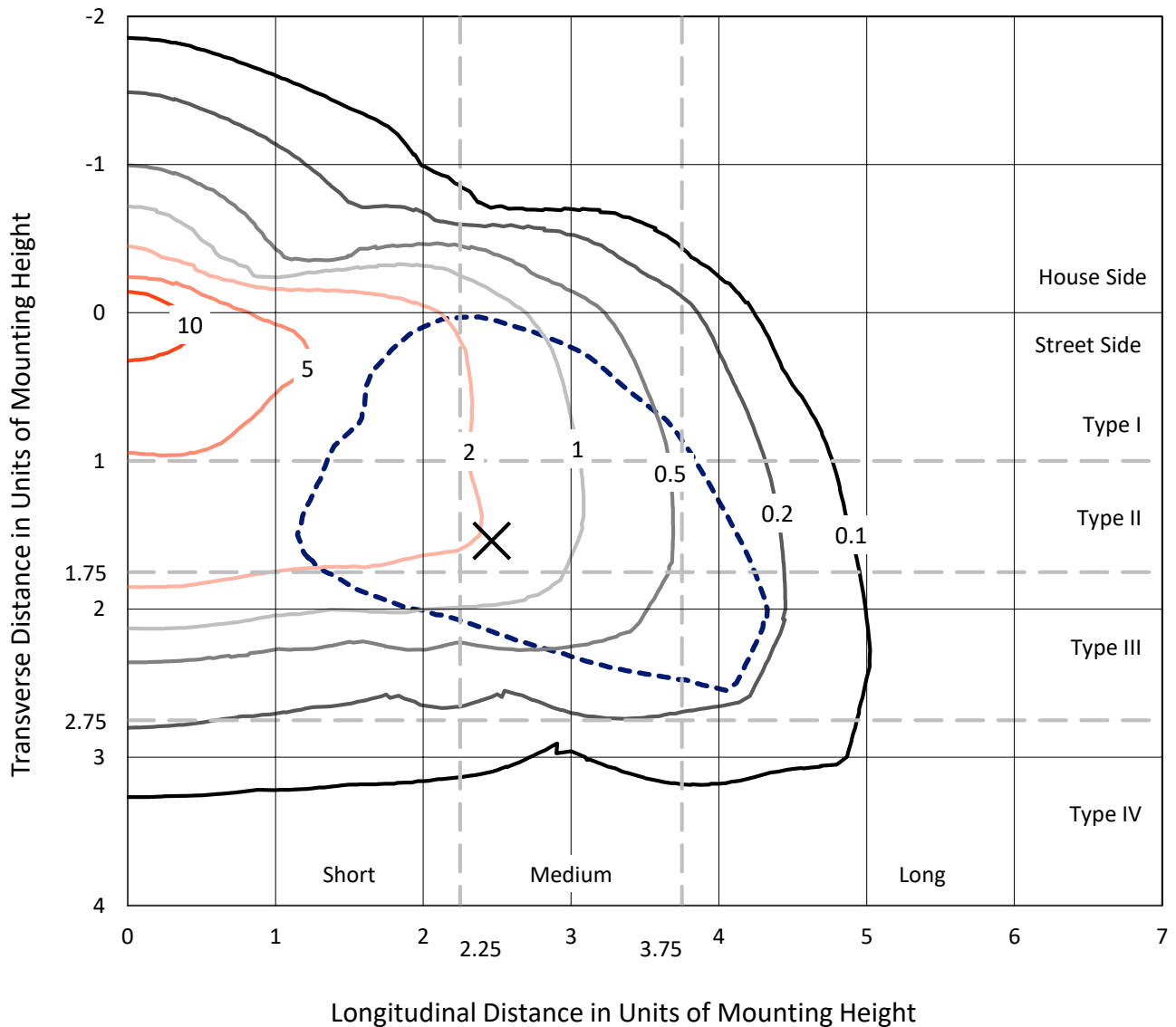
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

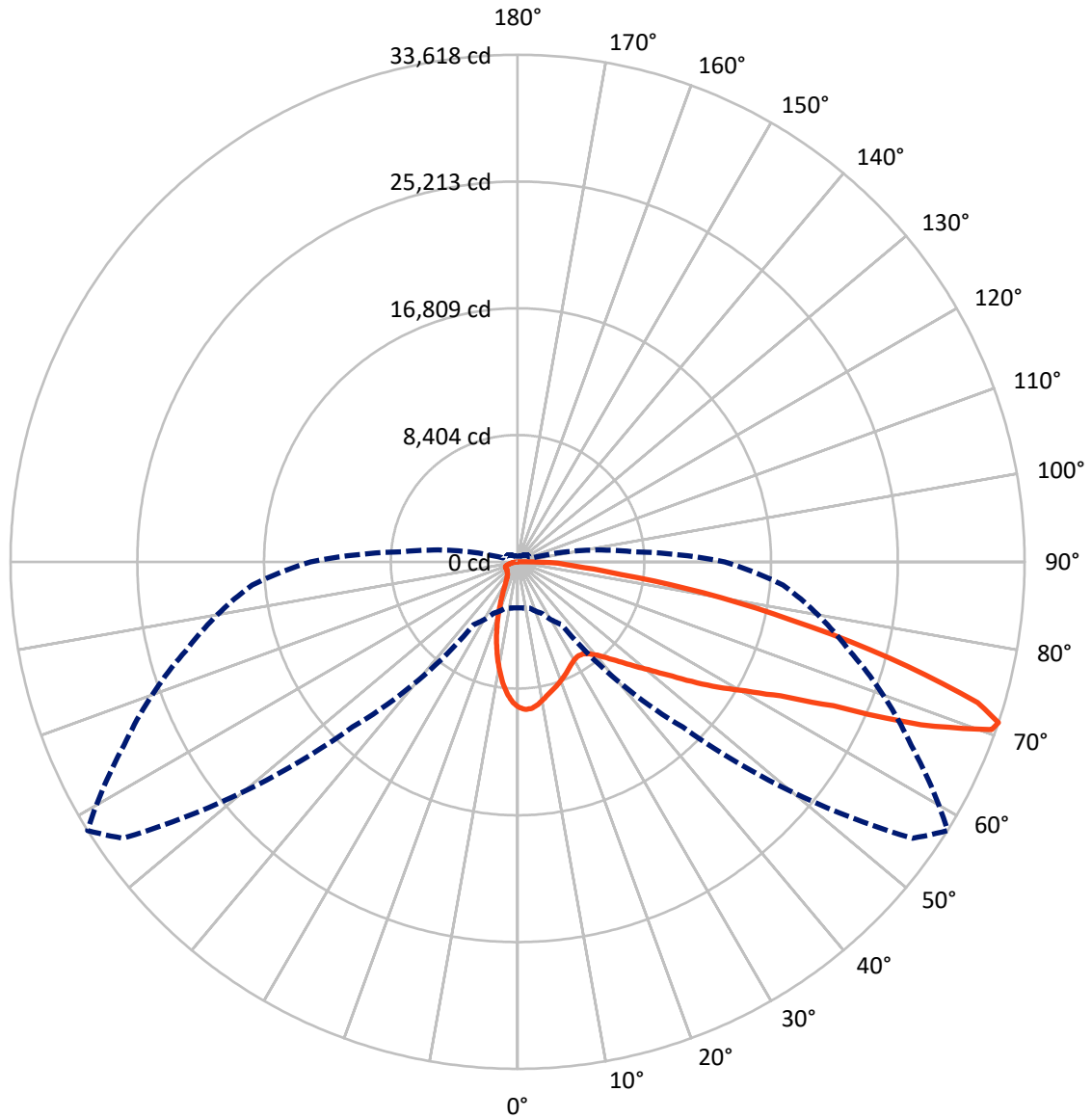
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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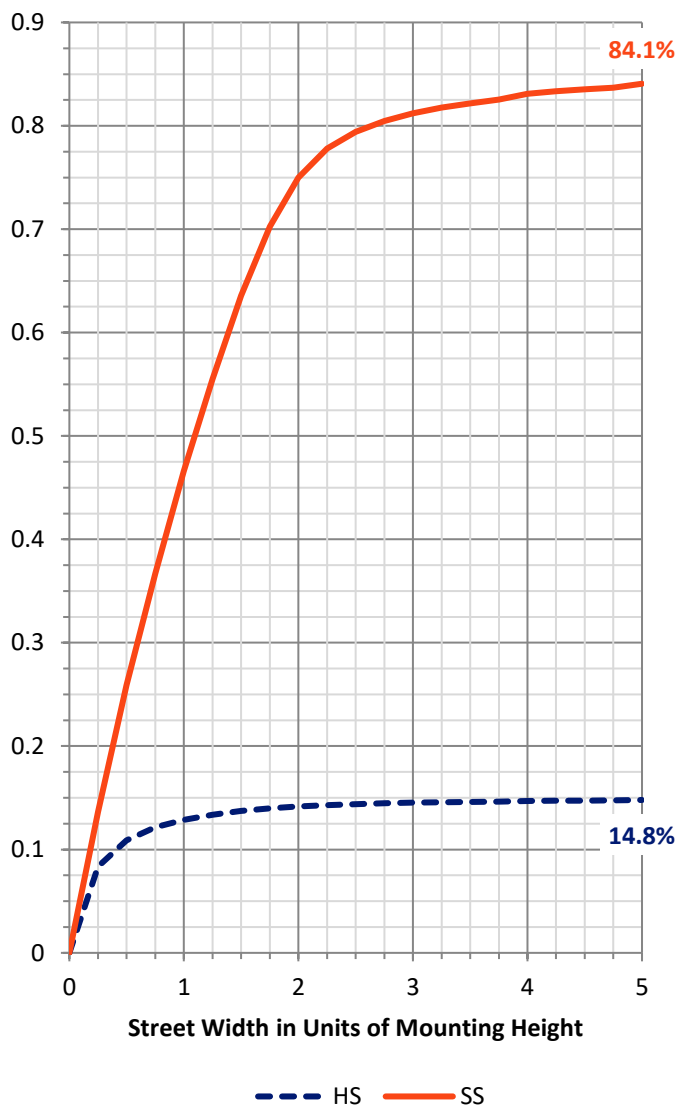
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5202.0	0.0	5202.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29592.3	0.0	29592.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	34794.2	0.0	34794.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.7	2.4
10°-20°	1849.3	5.3
20°-30°	2350.3	6.8
30°-40°	2993.8	8.6
40°-50°	4245.4	12.2
50°-60°	6569.9	18.9
60°-70°	8944.0	25.7
70°-80°	5966.7	17.1
80°-90°	1043.2	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°	34794.2	100.0
0°-180°	34794.2	100.0

Coefficient of Utilization

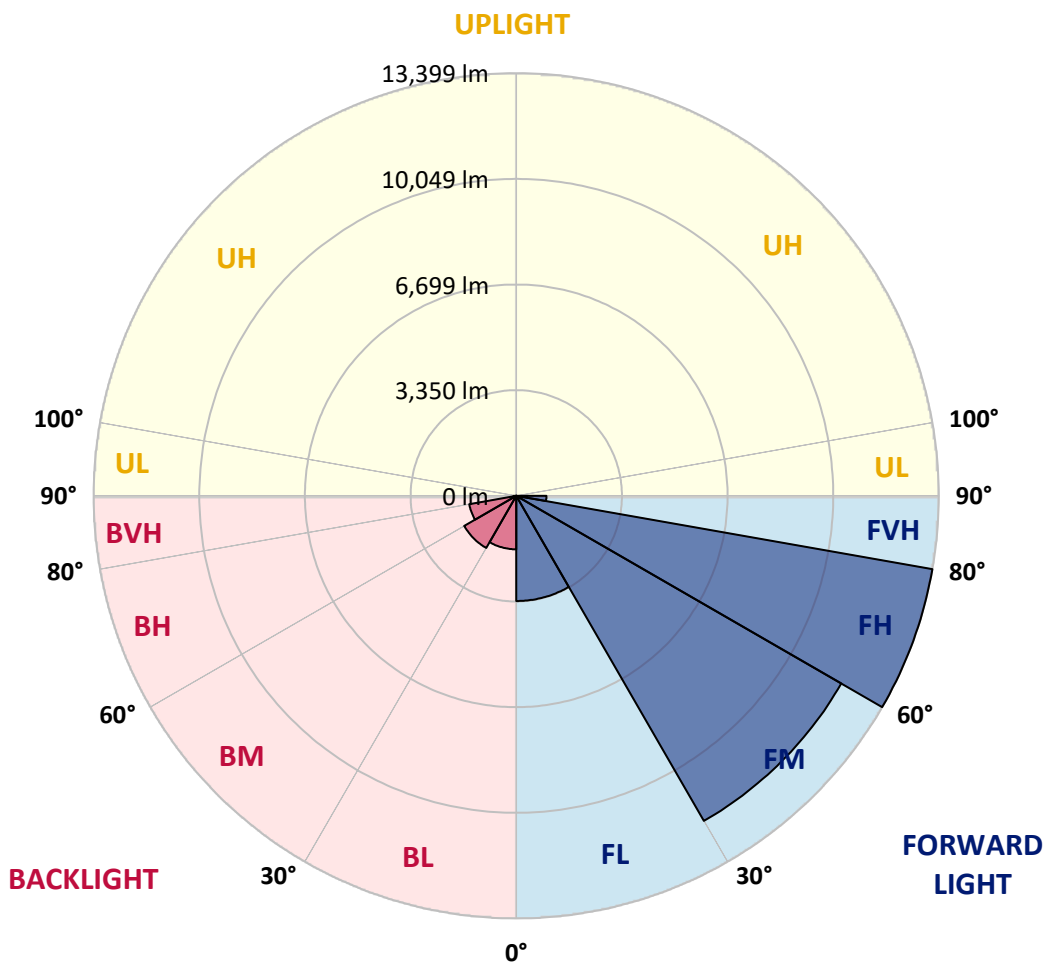


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3335.6	9.6			
FM (30°-60°)	11901.3	34.2			
FH (60°-80°)	13398.8	38.5			G5
FVH (80°-90°)	956.5	2.7			G5
BL (0°-30°)	1695.7	4.9	B3/2500		
BM (30°-60°)	1907.7	5.5	B2/2500		
BH (60°-80°)	1511.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	86.7	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3
2.5°	9896.1	9882.7	9887.5	9877.9	9854.8	9831.8	9797.9	9804.0	9756.7	9686.4	9599.1
5°	9709.4	9704.6	9740.9	9761.5	9778.5	9765.1	9755.4	9767.6	9698.5	9601.6	9450.1
7.5°	9317.9	9264.6	9310.6	9379.8	9445.2	9494.9	9560.4	9568.9	9525.2	9423.3	9224.7
10°	8761.6	8710.7	8778.6	8886.5	9017.4	9136.2	9268.2	9292.5	9300.9	9208.8	8967.6
12.5°	8184.7	8145.9	8213.8	8365.3	8582.3	8765.3	8976.1	9012.5	9087.6	9025.9	8730.1
15°	7668.4	7653.9	7736.2	7885.4	8135.0	8414.9	8719.2	8785.9	8913.1	8892.6	8544.7
17.5°	7222.4	7218.7	7281.7	7438.1	7714.4	8068.3	8463.5	8576.2	8765.3	8789.5	8391.9
20°	6890.3	6883.0	6926.6	7041.8	7326.6	7727.7	8187.1	8342.3	8615.0	8699.8	8234.4
22.5°	6712.1	6710.9	6712.1	6766.7	6999.4	7372.6	7918.1	8107.2	8468.3	8628.3	8059.8
25°	6681.8	6678.2	6651.5	6645.5	6777.6	7075.8	7651.5	7859.8	8329.0	8578.6	7893.8
27.5°	6760.6	6765.5	6730.3	6673.3	6700.0	6880.6	7420.0	7643.0	8217.5	8568.9	7778.7
30°	6924.2	6921.8	6891.5	6832.1	6780.0	6807.8	7255.1	7478.1	8142.3	8611.3	7699.9
32.5°	7104.8	7118.1	7112.1	7079.4	7001.8	6890.3	7205.4	7423.6	8120.5	8713.1	7666.0
35°	7321.8	7336.3	7379.9	7405.3	7314.5	7135.1	7312.1	7501.1	8183.5	8904.7	7720.5
37.5°	7527.8	7565.4	7687.8	7795.7	7718.1	7518.1	7595.7	7730.2	8378.6	9206.4	7867.2
40°	7765.4	7798.1	7998.1	8227.1	8215.0	8007.8	8052.6	8142.3	8722.8	9639.1	8132.6
42.5°	7999.3	8064.7	8354.4	8679.2	8772.6	8589.5	8661.1	8708.3	9207.6	10212.4	8595.6
45°	8310.7	8381.0	8783.5	9174.9	9393.1	9290.0	9404.0	9422.1	9817.3	10992.9	9268.2
47.5°	8782.3	8862.2	9331.3	9742.1	10075.4	10086.3	10274.2	10267.0	10578.5	11886.2	10115.4
50°	9516.7	9631.8	10016.1	10400.3	10805.1	11030.5	11281.4	11246.2	11491.1	12837.7	11091.1
52.5°	10479.1	10532.4	10817.2	11100.8	11603.8	12109.2	12469.1	12437.7	12526.1	13815.7	12198.9
55°	11476.5	11516.5	11634.1	11789.2	12465.5	13289.7	14050.8	14001.2	13776.9	14831.4	13293.4
57.5°	12373.4	12454.6	12535.8	12600.0	13333.3	14523.5	15668.9	15672.5	15134.4	15927.0	14424.2
60°	12512.8	12584.3	13121.2	13627.8	14818.0	16169.4	17400.8	17364.5	16539.1	17116.0	15684.7
62.5°	11060.8	11222.0	12118.9	13466.6	16248.2	19180.1	19610.3	19565.5	18218.9	18581.3	17152.4
65°	7926.5	8109.6	9191.9	11217.1	15555.0	22497.3	23597.9	22994.2	20509.6	20383.6	18871.0
67.5°	4572.9	4616.6	5085.6	6712.1	11843.8	22670.6	29680.9	28836.1	24066.9	22428.2	19712.1
70°	3381.5	3380.3	3491.8	4130.6	6409.1	18502.6	32574.0	33331.5	27812.0	23100.9	18523.2
71°	3057.9	3061.5	3186.4	3759.6	5075.9	15487.1	31959.5	33617.5	28798.6	22768.8	17662.6
72.5°	2615.5	2627.6	2801.0	3371.8	4269.9	10680.2	29312.4	31901.3	29266.4	21949.5	16316.1
75°	1984.1	2012.0	2251.9	2842.2	3902.7	5416.5	21513.2	25474.0	25998.8	19367.9	12123.7
77.5°	1415.7	1447.2	1718.6	2390.1	3710.0	4082.0	14407.1	18581.3	19132.8	12412.2	5468.6
80°	894.5	932.0	1136.9	1901.7	3485.8	3876.0	9053.7	12489.7	10433.0	3971.7	1391.4
82.5°	524.8	553.9	705.4	1242.3	2847.0	3733.0	5326.8	6923.0	4060.2	1199.9	632.7
85°	304.2	317.6	440.0	791.4	2067.7	3523.3	3913.6	3869.9	1762.3	586.6	299.4
87.5°	141.8	157.5	260.6	413.3	1147.8	2553.7	3093.0	2672.5	1095.7	275.1	140.6
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°	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3	9640.3
2.5°	9556.7	9536.1	9450.1	9373.7	9293.7	9189.4	9074.3	9059.8	8989.4	9002.8	8978.5
5°	9367.6	9315.5	9108.3	8920.4	8698.6	8499.8	8284.1	8184.7	8041.7	8032.0	7995.7
7.5°	9097.3	9000.4	8679.2	8322.9	7966.5	7627.1	7291.4	7070.9	6845.5	6749.7	6741.2
10°	8793.2	8628.3	8155.6	7628.4	7114.5	6618.8	6138.8	5783.7	5463.7	5312.2	5306.2
12.5°	8504.7	8261.1	7612.6	6895.1	6192.2	5549.8	4891.6	4425.0	4023.9	3889.3	3832.4
15°	8259.8	7916.9	7084.2	6166.8	5313.5	4421.4	3672.3	3181.5	2810.7	2682.2	2658.0
17.5°	8022.3	7581.1	6542.4	5431.0	4399.6	3419.1	2668.9	2304.0	2106.5	2054.3	2053.1
20°	7786.0	7235.7	5976.4	4678.3	3516.0	2557.4	2051.9	1888.3	1821.6	1815.6	1805.9
22.5°	7518.1	6869.7	5381.4	3923.3	2744.0	2010.7	1744.0	1678.6	1670.2	1692.0	1692.0
25°	7267.2	6506.1	4777.7	3183.9	2134.4	1677.4	1557.5	1544.1	1567.1	1605.9	1609.5
27.5°	7033.3	6155.8	4188.7	2527.0	1710.1	1477.4	1427.8	1443.5	1484.7	1529.6	1530.8
30°	6840.5	5825.0	3616.6	1991.4	1444.7	1328.4	1319.9	1351.4	1396.2	1431.4	1439.9
32.5°	6691.5	5542.5	3064.0	1601.1	1271.4	1216.9	1224.1	1250.8	1278.6	1298.0	1311.4
35°	6622.5	5300.1	2553.7	1350.2	1161.1	1130.8	1140.5	1155.0	1167.1	1181.7	1192.7
37.5°	6634.6	5112.2	2098.0	1193.9	1087.2	1071.4	1071.4	1071.4	1071.4	1078.7	1079.9
40°	6747.3	5004.4	1727.1	1094.5	1037.5	1020.5	1007.2	995.1	985.4	990.2	987.8
42.5°	7035.7	4994.7	1455.6	1031.4	997.5	969.6	942.9	926.0	913.8	918.7	921.1
45°	7525.4	5115.9	1272.6	986.6	959.9	917.5	883.6	865.4	856.9	872.7	875.1
47.5°	8159.2	5380.2	1161.1	953.8	924.7	869.0	832.6	815.7	818.1	841.1	847.1
50°	8976.1	5809.1	1107.8	933.2	900.5	827.8	790.2	775.7	783.0	815.7	822.9
52.5°	9873.0	6427.3	1113.9	927.2	884.8	797.5	757.5	740.6	752.7	783.0	789.0
55°	10908.0	7170.2	1214.5	935.6	861.8	778.1	730.8	701.7	711.4	739.4	744.2
57.5°	12058.3	8021.1	1416.9	933.2	832.6	760.0	702.9	659.3	666.6	683.6	688.4
60°	13255.7	9048.9	1730.7	940.5	819.3	738.2	665.4	610.8	608.4	623.0	625.4
62.5°	14693.2	10237.9	2089.5	945.3	827.8	710.2	615.7	562.4	555.1	558.7	561.2
65°	16174.3	11098.4	1954.9	926.0	854.5	687.2	572.1	515.1	501.7	499.3	500.5
67.5°	16220.3	10176.0	1370.8	887.2	865.4	675.1	539.4	475.1	453.3	444.8	443.6
70°	14546.6	8267.1	1067.7	845.9	821.7	655.7	509.1	442.4	409.7	396.4	395.1
71°	13729.6	7610.2	1012.0	825.4	789.0	636.3	495.7	427.9	393.9	379.3	376.9
72.5°	12448.6	6822.4	944.1	792.7	726.0	586.6	470.2	407.3	372.1	355.1	351.5
75°	8933.7	4461.4	810.8	706.6	601.1	467.8	412.1	366.0	335.7	315.1	312.7
77.5°	3442.1	1775.6	613.2	587.8	460.6	366.0	339.4	316.4	294.6	273.9	272.7
80°	1064.1	793.9	447.2	442.4	333.3	272.7	264.2	258.1	249.7	227.9	223.0
82.5°	568.4	455.7	307.9	286.1	218.2	181.8	191.5	193.9	195.2	172.1	169.7
85°	271.5	241.2	173.4	162.4	127.2	101.8	117.6	127.2	128.5	105.5	98.2
87.5°	129.7	126.0	81.2	61.9	47.2	33.9	41.2	50.9	55.7	40.0	35.1
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)