

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: P319804

Luminaire Tested: **GLEON-SA0B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319804
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-SA0B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 41584 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

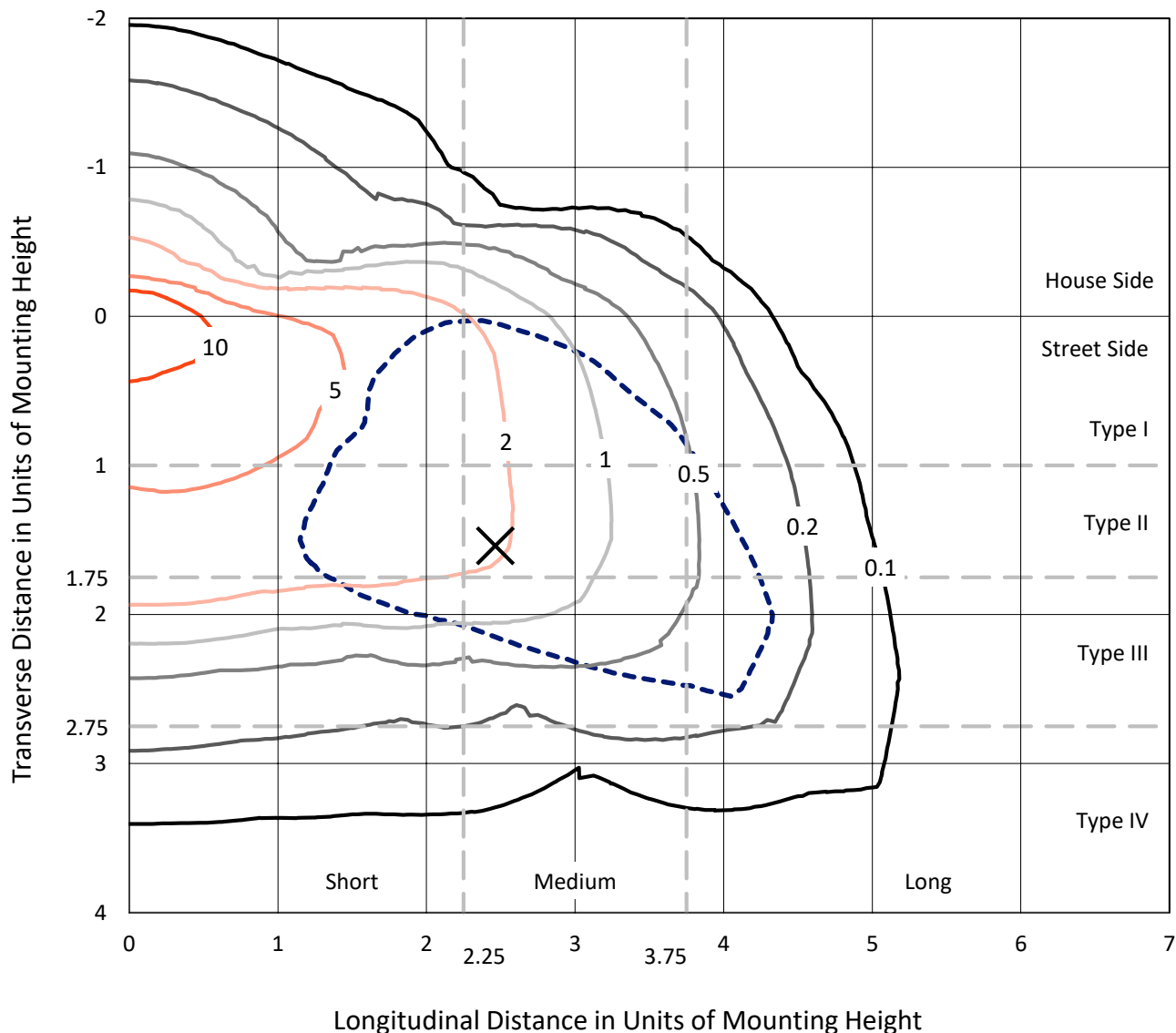
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

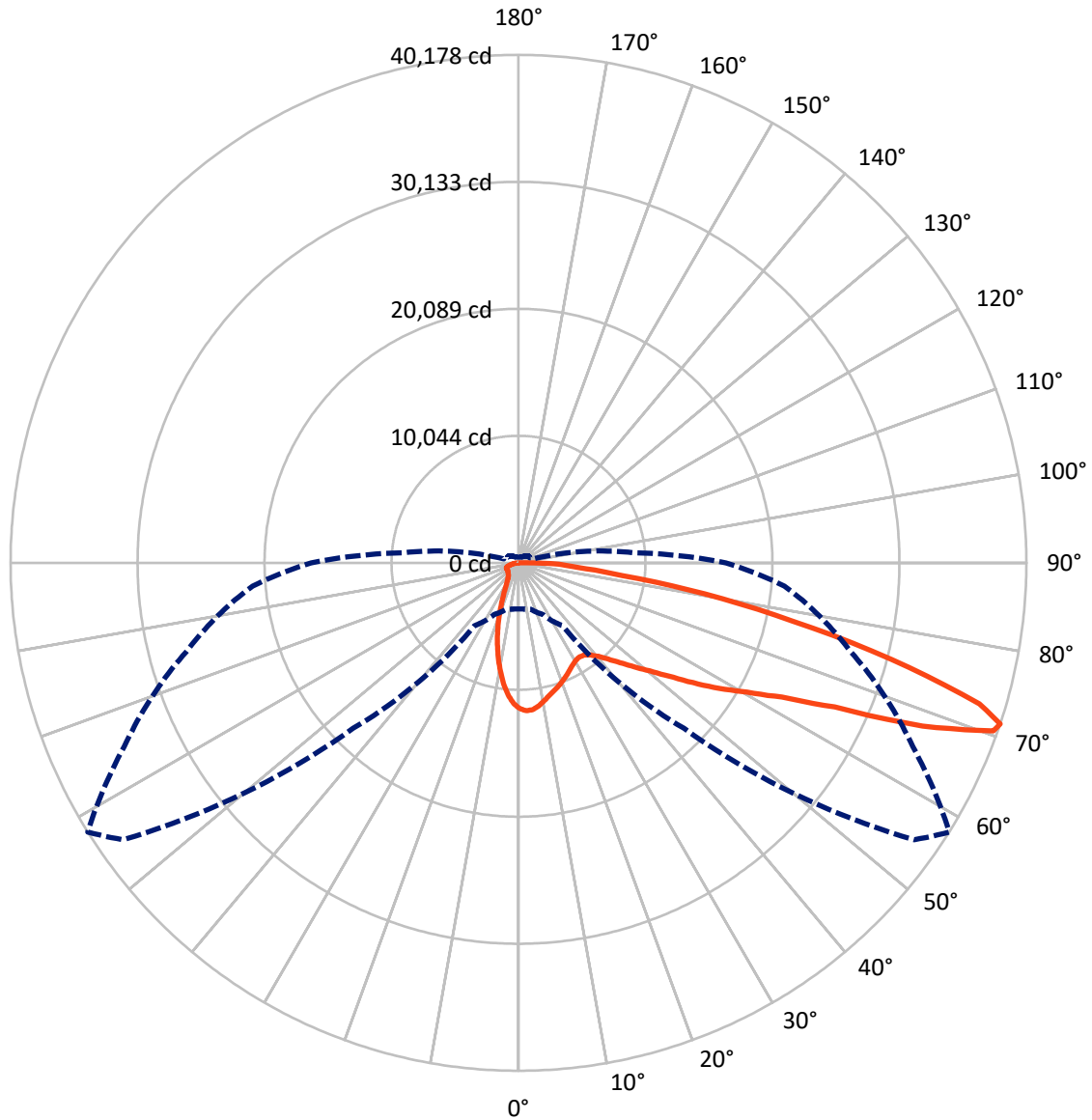
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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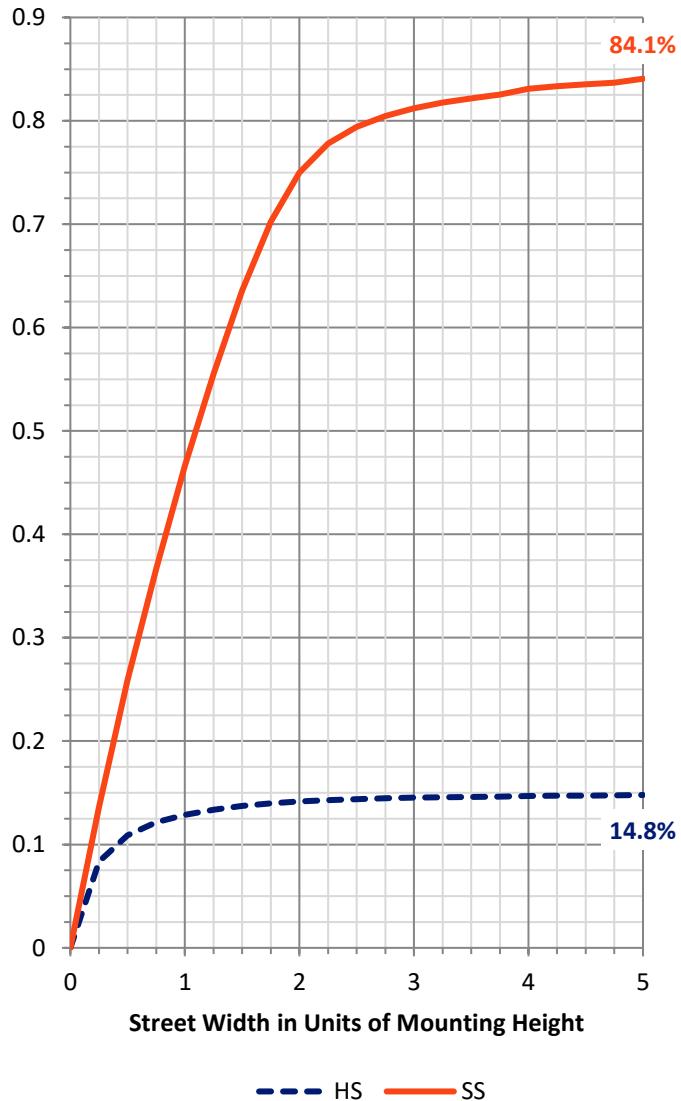
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6217.1	0.0	6217.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	35366.9	0.0	35366.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	41584.0	0.0	41584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.0	2.4
10°-20°	2210.2	5.3
20°-30°	2808.9	6.8
30°-40°	3578.0	8.6
40°-50°	5073.8	12.2
50°-60°	7851.9	18.9
60°-70°	10689.4	25.7
70°-80°	7131.1	17.1
80°-90°	1246.8	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°	41584.0	100.0
0°-180°	41584.0	100.0

Coefficient of Utilization

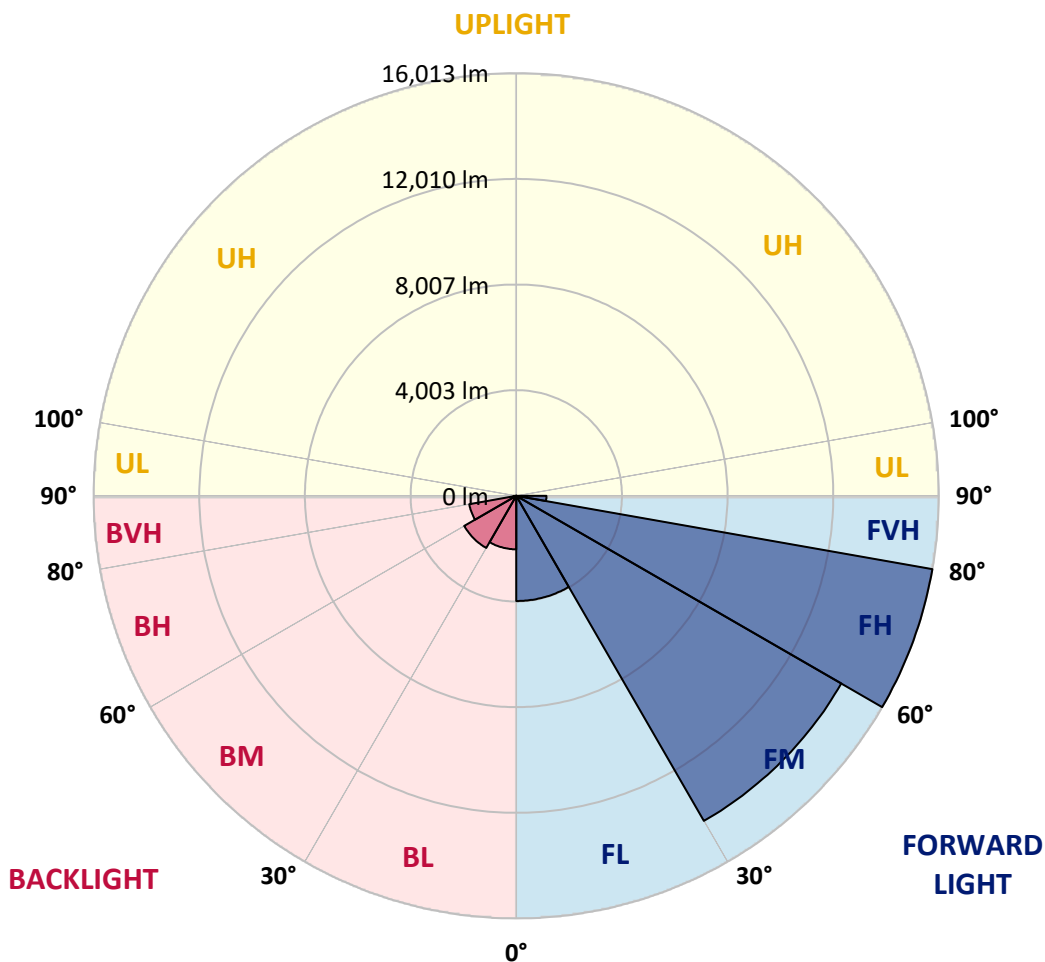


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3986.5	9.6			
FM (30°-60°)	14223.7	34.2			
FH (60°-80°)	16013.5	38.5			G5
FVH (80°-90°)	1143.2	2.7			G5
BL (0°-30°)	2026.6	4.9	B3/2500		
BM (30°-60°)	2280.0	5.5	B2/2500		
BH (60°-80°)	1806.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.2			G2/225
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°	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5
2.5°	11827.2	11811.3	11817.0	11805.5	11777.9	11750.4	11709.9	11717.1	11660.6	11576.6	11472.3
5°	11604.1	11598.3	11641.8	11666.4	11686.7	11670.7	11659.2	11673.6	11591.1	11475.2	11294.1
7.5°	11136.2	11072.5	11127.5	11210.1	11288.3	11347.7	11425.9	11436.1	11383.9	11262.3	11024.7
10°	10471.4	10410.5	10491.6	10620.6	10777.0	10919.0	11076.9	11105.8	11116.0	11005.9	10717.6
12.5°	9781.9	9735.5	9816.6	9997.7	10257.0	10475.7	10727.8	10771.2	10861.0	10787.1	10433.7
15°	9164.8	9147.4	9245.9	9424.1	9722.5	10057.1	10420.7	10500.3	10652.4	10627.8	10212.1
17.5°	8631.7	8627.4	8702.7	8889.6	9219.8	9642.8	10115.0	10249.7	10475.7	10504.7	10029.6
20°	8234.9	8226.2	8278.3	8415.9	8756.3	9235.8	9784.8	9970.2	10296.1	10397.5	9841.3
22.5°	8021.9	8020.5	8021.9	8087.1	8365.2	8811.4	9463.2	9689.2	10120.8	10312.0	9632.7
25°	7985.7	7981.4	7949.5	7942.2	8100.1	8456.5	9144.5	9393.7	9954.2	10252.6	9434.2
27.5°	8079.9	8085.7	8043.6	7975.6	8007.4	8223.3	8867.9	9134.4	9821.0	10241.1	9296.6
30°	8275.4	8272.5	8236.3	8165.3	8103.0	8136.4	8670.9	8937.4	9731.2	10291.8	9202.5
32.5°	8491.2	8507.2	8499.9	8460.8	8368.1	8234.9	8611.5	8872.2	9705.1	10413.4	9161.9
35°	8750.5	8767.9	8820.1	8850.5	8741.8	8527.5	8738.9	8964.9	9780.4	10642.3	9227.1
37.5°	8996.8	9041.7	9188.0	9316.9	9224.2	8985.2	9077.9	9238.7	10013.6	11003.0	9402.4
40°	9280.7	9319.8	9558.8	9832.6	9818.1	9570.4	9624.0	9731.2	10425.0	11520.1	9719.6
42.5°	9560.2	9638.5	9984.7	10372.9	10484.4	10265.7	10351.1	10407.6	11004.4	12205.3	10272.9
45°	9932.5	10016.5	10497.4	10965.3	11226.0	11102.9	11239.1	11260.8	11733.0	13138.1	11076.9
47.5°	10496.0	10591.6	11152.2	11643.2	12041.6	12054.6	12279.1	12270.4	12642.7	14205.7	12089.4
50°	11373.8	11511.4	11970.6	12429.8	12913.6	13183.0	13482.8	13440.8	13733.4	15342.8	13255.4
52.5°	12523.9	12587.7	12928.1	13267.0	13868.2	14472.2	14902.4	14864.7	14970.5	16511.7	14579.4
55°	13716.1	13763.9	13904.4	14089.8	14898.1	15883.0	16792.7	16733.3	16465.4	17725.6	15887.4
57.5°	14788.0	14885.0	14982.1	15058.8	15935.2	17357.6	18726.5	18730.8	18087.7	19035.0	17238.9
60°	14954.5	15040.0	15681.7	16287.2	17709.6	19324.7	20796.4	20753.0	19766.5	20456.0	18745.3
62.5°	13219.2	13411.9	14483.8	16094.5	19418.9	22922.9	23437.1	23383.5	21774.2	22207.3	20499.5
65°	9473.3	9692.1	10985.6	13406.1	18590.3	26887.5	28202.7	27481.4	24511.9	24361.3	22553.5
67.5°	5465.3	5517.4	6078.0	8021.9	14155.0	27094.6	35472.9	34463.2	28763.3	26804.9	23558.8
70°	4041.4	4039.9	4173.2	4936.6	7659.8	22113.1	38930.5	39835.8	33239.2	27608.8	22137.8
71°	3654.6	3659.0	3808.2	4493.3	6066.4	18509.2	38196.1	40177.7	34418.3	27211.9	21109.3
72.5°	3125.9	3140.4	3347.5	4029.8	5103.1	12764.4	35032.5	38126.6	34977.5	26232.7	19500.0
75°	2371.2	2404.5	2691.4	3396.8	4664.2	6473.4	25711.3	30445.0	31072.3	23147.4	14489.6
77.5°	1691.9	1729.5	2054.0	2856.5	4433.9	4878.6	17218.6	22207.3	22866.4	14834.3	6535.7
80°	1069.0	1113.9	1358.7	2272.7	4166.0	4632.4	10820.5	14927.0	12468.9	4746.8	1662.9
82.5°	627.2	662.0	843.0	1484.7	3402.6	4461.4	6366.3	8274.0	4852.6	1434.0	756.1
85°	363.6	379.5	525.8	945.9	2471.2	4210.9	4677.3	4625.1	2106.2	701.1	357.8
87.5°	169.5	188.3	311.4	493.9	1371.8	3052.0	3696.6	3194.0	1309.5	328.8	168.0
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°	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5	11521.5
2.5°	11421.6	11397.0	11294.1	11202.9	11107.3	10982.7	10845.1	10827.7	10743.7	10759.6	10730.7
5°	11195.6	11133.3	10885.6	10661.1	10396.0	10158.5	9900.7	9781.9	9610.9	9599.4	9555.9
7.5°	10872.6	10756.7	10372.9	9947.0	9521.1	9115.6	8714.3	8450.7	8181.3	8066.8	8056.7
10°	10509.0	10312.0	9747.1	9117.0	8502.8	7910.4	7336.8	6912.3	6529.9	6348.9	6341.6
12.5°	10164.3	9873.1	9098.2	8240.6	7400.5	6632.8	5846.2	5288.6	4809.1	4648.3	4580.2
15°	9871.7	9461.7	8466.6	7370.1	6350.3	5284.2	4389.0	3802.4	3359.1	3205.6	3176.6
17.5°	9587.8	9060.5	7819.1	6490.8	5258.1	4086.3	3189.6	2753.6	2517.5	2455.2	2453.8
20°	9305.3	8647.7	7142.7	5591.3	4202.2	3056.4	2452.3	2256.8	2177.1	2169.9	2158.3
22.5°	8985.2	8210.2	6431.4	4688.9	3279.5	2403.1	2084.4	2006.2	1996.1	2022.1	2022.1
25°	8685.3	7775.7	5710.1	3805.3	2550.8	2004.8	1861.4	1845.4	1872.9	1919.3	1923.6
27.5°	8405.8	7357.0	5006.1	3020.2	2043.9	1765.7	1706.4	1725.2	1774.4	1828.0	1829.5
30°	8175.5	6961.6	4322.4	2379.9	1726.6	1587.6	1577.4	1615.1	1668.7	1710.7	1720.8
32.5°	7997.3	6624.1	3661.9	1913.5	1519.5	1454.3	1463.0	1494.9	1528.2	1551.4	1567.3
35°	7914.7	6334.4	3052.0	1613.7	1387.7	1351.5	1363.1	1380.4	1394.9	1412.3	1425.3
37.5°	7929.2	6109.9	2507.4	1426.8	1299.3	1280.5	1280.5	1280.5	1280.5	1289.2	1290.6
40°	8063.9	5980.9	2064.1	1308.0	1239.9	1219.7	1203.7	1189.2	1177.6	1183.4	1180.5
42.5°	8408.7	5969.4	1739.7	1232.7	1192.1	1158.8	1127.0	1106.7	1092.2	1098.0	1100.9
45°	8993.9	6114.2	1520.9	1179.1	1147.2	1096.5	1056.0	1034.2	1024.1	1042.9	1045.8
47.5°	9751.5	6430.0	1387.7	1140.0	1105.2	1038.6	995.1	974.9	977.8	1005.3	1012.5
50°	10727.8	6942.8	1323.9	1115.4	1076.3	989.3	944.4	927.1	935.7	974.9	983.5
52.5°	11799.7	7681.5	1331.2	1108.1	1057.4	953.1	905.3	885.0	899.5	935.7	943.0
55°	13036.7	8569.5	1451.4	1118.3	1029.9	930.0	873.5	838.7	850.3	883.6	889.4
57.5°	14411.4	9586.3	1693.3	1115.4	995.1	908.2	840.1	788.0	796.7	817.0	822.8
60°	15842.5	10814.7	2068.5	1124.1	979.2	882.2	795.2	730.1	727.2	744.5	747.4
62.5°	17560.4	12235.7	2497.3	1129.8	989.3	848.8	735.8	672.1	663.4	667.8	670.7
65°	19330.5	13264.1	2336.5	1106.7	1021.2	821.3	683.7	615.6	599.7	596.8	598.2
67.5°	19385.6	12161.8	1638.3	1060.3	1034.2	806.8	644.6	567.8	541.7	531.6	530.2
70°	17385.2	9880.4	1276.1	1011.1	982.1	783.7	608.4	528.7	489.6	473.7	472.2
71°	16408.9	9095.3	1209.5	986.4	943.0	760.5	592.4	511.3	470.8	453.4	450.5
72.5°	14877.8	8153.7	1128.4	947.3	867.7	701.1	562.0	486.7	444.7	424.4	420.1
75°	10677.1	5332.0	969.1	844.5	718.5	559.1	492.5	437.5	401.2	376.6	373.7
77.5°	4113.8	2122.1	733.0	702.5	550.4	437.5	405.6	378.1	352.0	327.4	325.9
80°	1271.8	948.8	534.5	528.7	398.3	325.9	315.8	308.5	298.4	272.3	266.5
82.5°	679.4	544.6	367.9	341.9	260.7	217.3	228.9	231.8	233.2	205.7	202.8
85°	324.5	288.3	207.1	194.1	152.1	121.7	140.5	152.1	153.5	126.0	117.3
87.5°	155.0	150.6	97.1	73.9	56.5	40.6	49.2	60.8	66.6	47.8	42.0
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)