

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: P382607

Luminaire Tested: **GLEON-SA0A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382607
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-SA0A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 42972.3 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

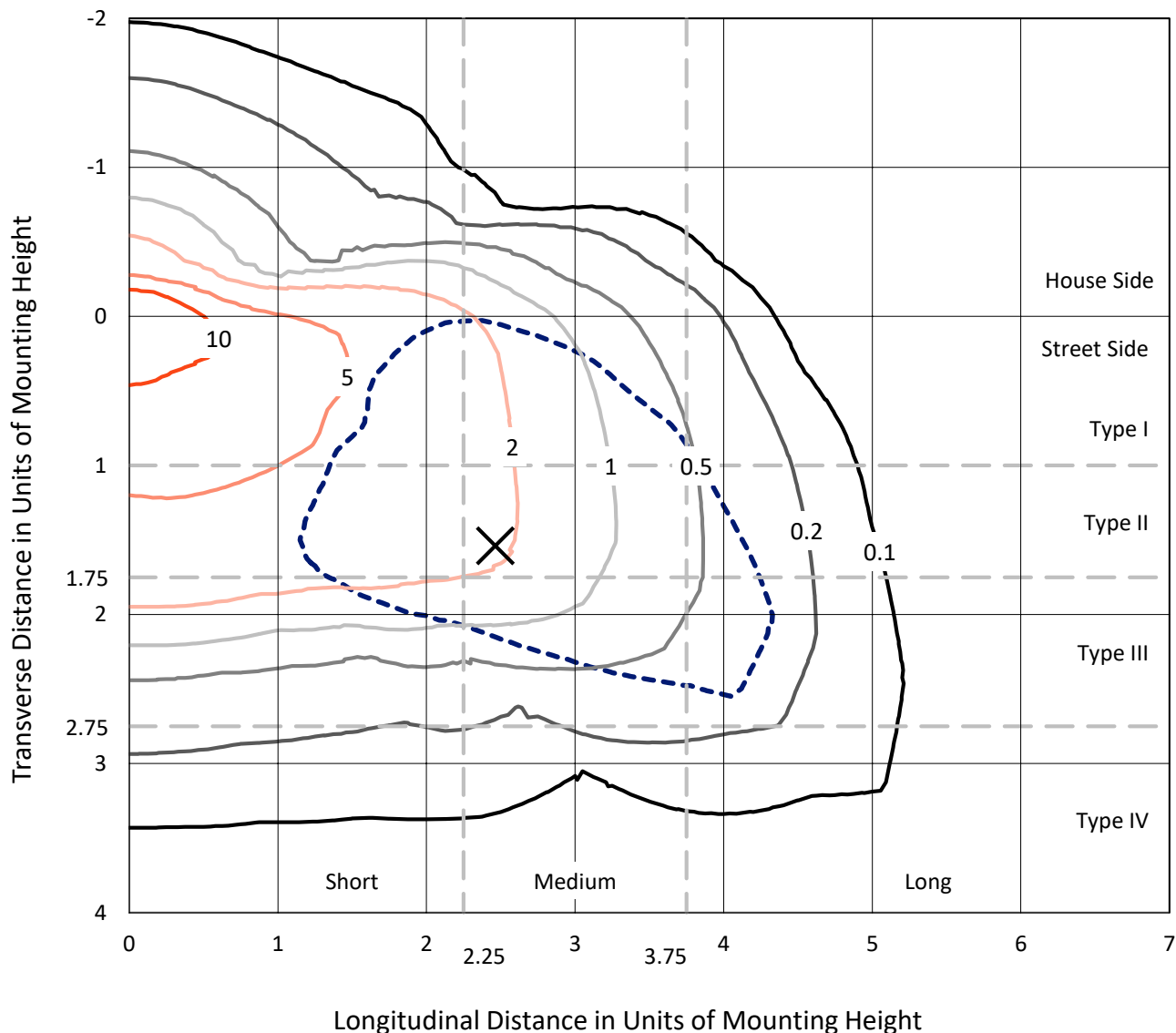
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

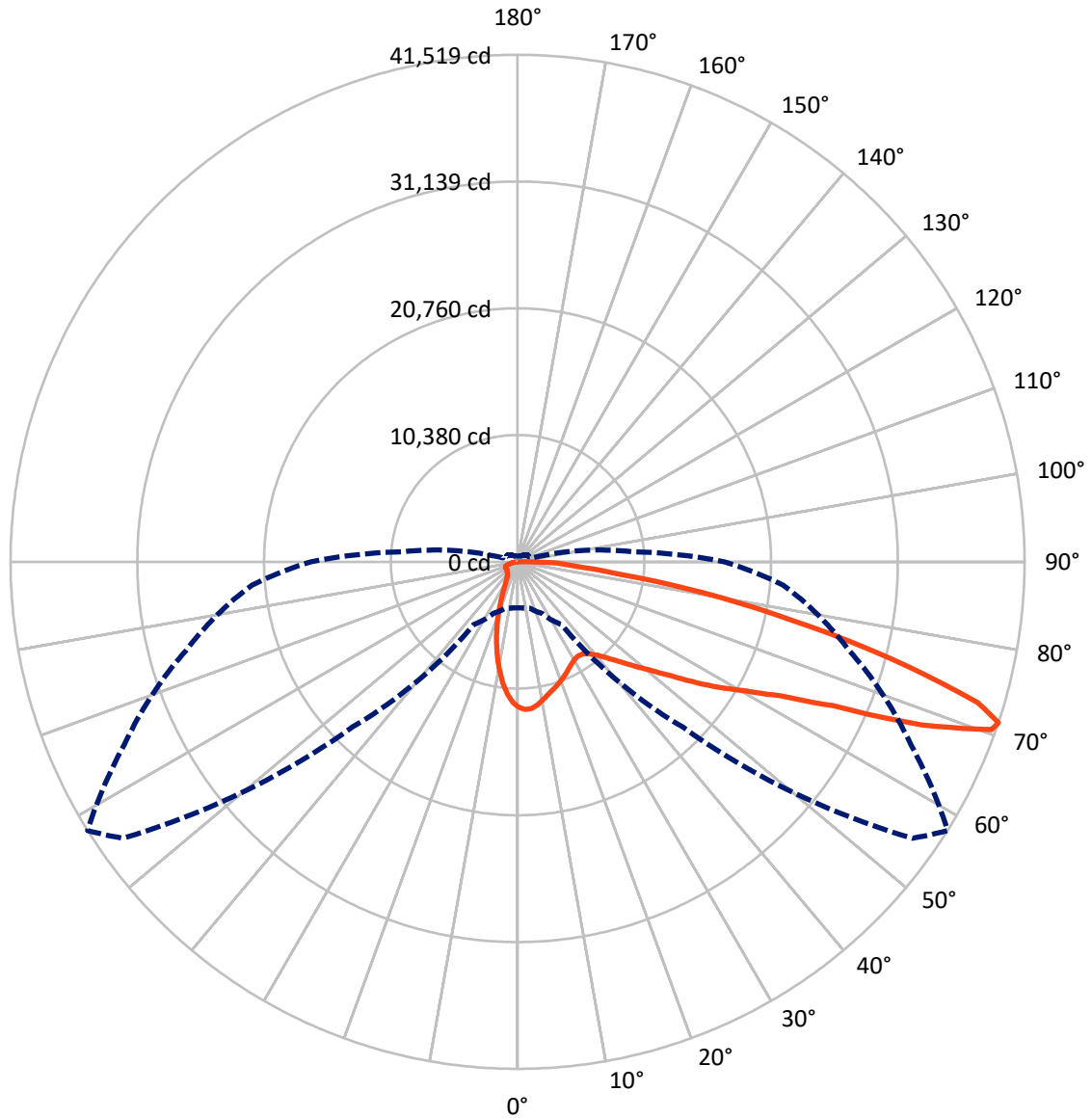
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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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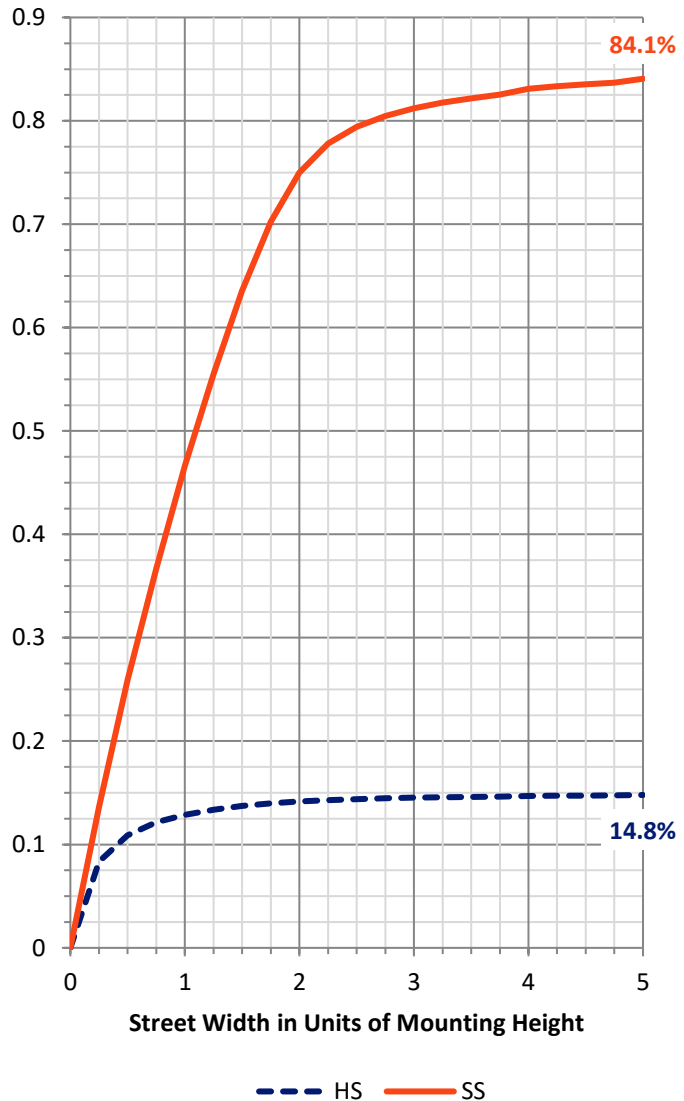
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6424.7	0.0	6424.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36547.6	0.0	36547.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	42972.3	0.0	42972.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.2	2.4
10°-20°	2284.0	5.3
20°-30°	2902.7	6.8
30°-40°	3697.5	8.6
40°-50°	5243.2	12.2
50°-60°	8114.0	18.9
60°-70°	11046.2	25.7
70°-80°	7369.1	17.1
80°-90°	1288.4	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°	42972.3	100.0
0°-180°	42972.3	100.0

Coefficient of Utilization

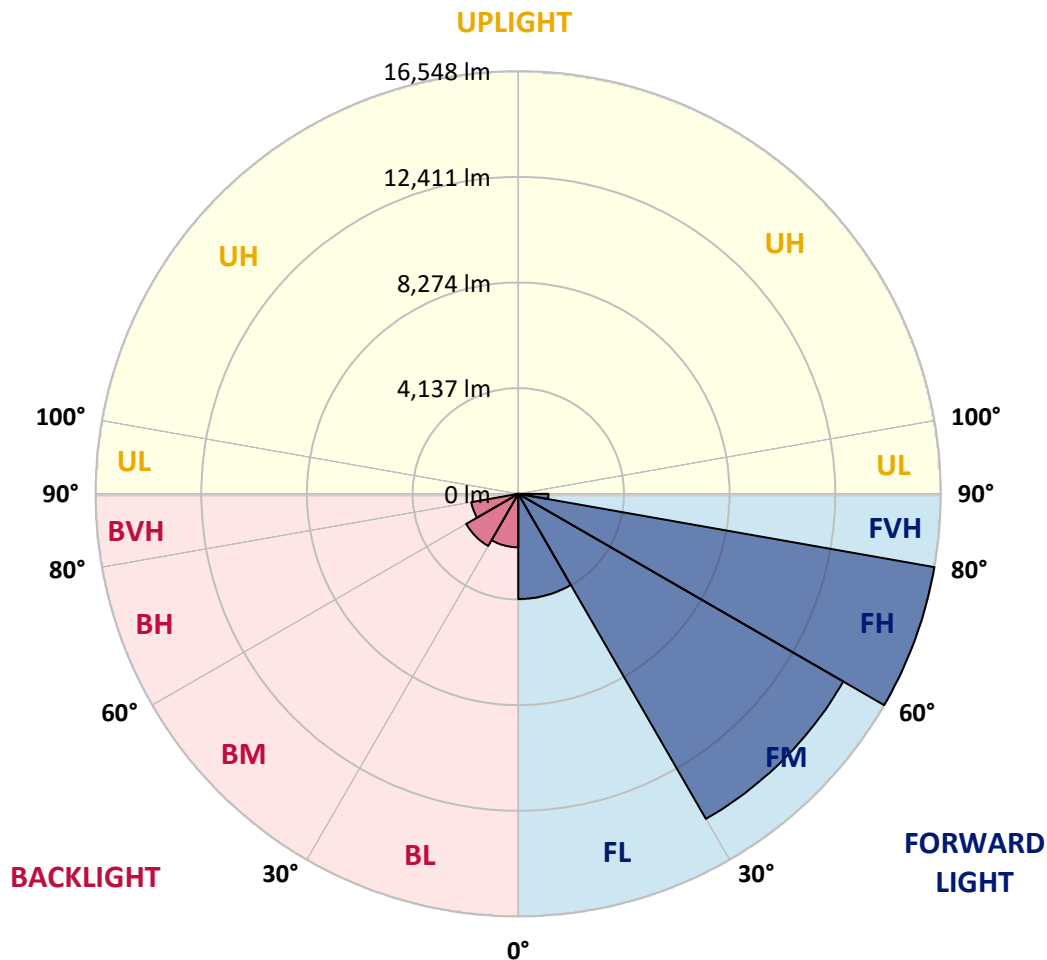


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4119.6	9.6			
FM (30°-60°)	14698.6	34.2			
FH (60°-80°)	16548.1	38.5			G5
FVH (80°-90°)	1181.3	2.7			G5
BL (0°-30°)	2094.2	4.9	B3/2500		
BM (30°-60°)	2356.1	5.5	B2/2500		
BH (60°-80°)	1867.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	107.0	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°	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2
2.5°	12222.0	12205.6	12211.6	12199.5	12171.1	12142.7	12100.8	12108.3	12049.9	11963.1	11855.3
5°	11991.5	11985.6	12030.5	12055.9	12076.9	12060.4	12048.4	12063.4	11978.0	11858.3	11671.2
7.5°	11508.1	11442.2	11499.0	11584.4	11665.2	11726.6	11807.4	11817.9	11764.0	11638.3	11392.7
10°	10821.0	10758.1	10841.9	10975.1	11136.8	11283.5	11446.7	11476.6	11487.1	11373.3	11075.4
12.5°	10108.4	10060.5	10144.4	10331.5	10599.4	10825.4	11085.9	11130.8	11223.7	11147.3	10782.0
15°	9470.8	9452.8	9554.6	9738.7	10047.1	10392.8	10768.6	10850.9	11008.1	10982.7	10553.0
17.5°	8919.9	8915.5	8993.3	9186.4	9527.7	9964.8	10452.7	10592.0	10825.4	10855.4	10364.4
20°	8509.8	8500.8	8554.7	8696.9	9048.7	9544.1	10111.4	10303.0	10639.9	10744.7	10169.8
22.5°	8289.7	8288.3	8289.7	8357.1	8644.5	9105.5	9779.1	10012.6	10458.7	10656.3	9954.2
25°	8252.3	8247.8	8214.9	8207.4	8370.6	8738.8	9449.8	9707.3	10286.6	10595.0	9749.2
27.5°	8349.6	8355.6	8312.2	8241.9	8274.8	8497.8	9163.9	9439.4	10148.8	10582.9	9607.0
30°	8551.7	8548.7	8511.3	8438.0	8373.6	8408.0	8960.4	9235.7	10056.1	10635.4	9509.7
32.5°	8774.7	8791.2	8783.7	8743.3	8647.5	8509.8	8899.0	9168.4	10029.1	10761.1	9467.8
35°	9042.6	9060.6	9114.5	9145.9	9033.7	8812.2	9030.7	9264.2	10106.9	10997.6	9535.1
37.5°	9297.1	9343.5	9494.7	9627.9	9532.2	9285.2	9381.0	9547.2	10347.9	11370.3	9716.2
40°	9590.6	9630.9	9877.9	10160.9	10145.9	9889.9	9945.3	10056.1	10773.1	11904.7	10044.0
42.5°	9879.4	9960.3	10318.0	10719.1	10834.5	10608.4	10696.7	10755.1	11371.8	12612.7	10615.9
45°	10264.2	10350.9	10847.9	11331.4	11600.8	11473.6	11614.3	11636.8	12124.7	13576.7	11446.7
47.5°	10846.4	10945.2	11524.5	12032.0	12443.6	12457.0	12689.1	12680.0	13064.8	14679.9	12493.0
50°	11753.5	11895.7	12370.2	12844.7	13344.7	13623.1	13933.0	13889.6	14191.9	15854.9	13697.9
52.5°	12942.1	13007.9	13359.7	13710.0	14331.1	14955.3	15399.9	15361.0	15470.3	17063.0	15066.1
55°	14174.0	14223.3	14368.6	14560.2	15395.4	16413.3	17353.3	17291.9	17015.1	18317.3	16417.8
57.5°	15281.7	15382.0	15482.2	15561.6	16467.2	17937.1	19351.7	19356.2	18691.6	19670.6	17814.4
60°	15453.8	15542.1	16205.2	16830.9	18300.9	19969.9	21490.7	21445.8	20426.4	21139.0	19371.2
62.5°	13660.6	13859.7	14967.4	16631.9	20067.2	23688.1	24219.6	24164.2	22501.2	22948.7	21183.9
65°	9789.6	10015.6	11352.3	13853.6	19210.9	27785.1	29144.3	28398.9	25330.3	25174.5	23306.5
67.5°	5647.7	5701.6	6281.0	8289.7	14627.5	27999.2	36657.1	35613.8	29723.5	27699.8	24345.3
70°	4176.3	4174.8	4312.5	5101.3	7915.5	22851.4	40230.2	41165.7	34349.0	28530.6	22876.9
71°	3776.6	3781.2	3935.3	4643.3	6268.9	19127.2	39471.3	41519.0	35567.4	28120.4	21814.1
72.5°	3230.2	3245.2	3459.3	4164.3	5273.5	13190.5	36202.1	39399.4	36145.2	27108.5	20151.1
75°	2450.4	2484.8	2781.2	3510.2	4819.9	6689.5	26569.7	31461.4	32109.6	23920.2	14973.3
77.5°	1748.3	1787.3	2122.6	2951.9	4581.9	5041.5	17793.4	22948.7	23629.7	15329.5	6753.9
80°	1104.7	1151.1	1404.0	2348.6	4305.1	4787.0	11181.7	15425.4	12885.2	4905.3	1718.4
82.5°	648.2	684.0	871.2	1534.3	3516.2	4610.4	6578.8	8550.2	5014.5	1481.9	781.4
85°	375.7	392.2	543.4	977.5	2553.7	4351.4	4833.4	4779.6	2176.5	724.5	369.7
87.5°	175.1	194.6	321.8	510.4	1417.5	3153.9	3820.0	3300.7	1353.2	339.8	173.6
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°	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2	11906.2
2.5°	11802.9	11777.5	11671.2	11576.9	11478.1	11349.3	11207.2	11189.2	11102.4	11118.9	11088.9
5°	11569.4	11505.1	11249.1	11017.0	10743.2	10497.6	10231.2	10108.4	9931.8	9919.9	9875.0
7.5°	11235.6	11115.9	10719.1	10279.1	9839.0	9419.9	9005.3	8732.8	8454.4	8336.1	8325.6
10°	10859.9	10656.3	10072.5	9421.4	8786.7	8174.5	7581.7	7143.1	6747.9	6560.8	6553.3
12.5°	10503.7	10202.8	9401.9	8515.7	7647.5	6854.2	6041.5	5465.1	4969.6	4803.5	4733.1
15°	10201.3	9777.6	8749.3	7616.1	6562.3	5460.6	4535.5	3929.4	3471.2	3312.6	3282.7
17.5°	9907.8	9363.0	8080.2	6707.5	5433.7	4222.7	3296.1	2845.6	2601.6	2537.3	2535.7
20°	9616.0	8936.4	7381.1	5777.9	4342.4	3158.4	2534.2	2332.1	2249.8	2242.3	2230.3
22.5°	9285.2	8484.3	6646.1	4845.4	3389.0	2483.3	2154.0	2073.2	2062.7	2089.6	2089.6
25°	8975.3	8035.3	5900.7	3932.3	2636.0	2071.7	1923.5	1907.1	1935.5	1983.4	1987.8
27.5°	8686.4	7602.6	5173.3	3121.0	2112.1	1824.7	1763.3	1782.8	1833.7	1889.1	1890.6
30°	8448.4	7194.0	4466.7	2459.4	1784.3	1640.5	1630.1	1669.1	1724.4	1767.8	1778.3
32.5°	8264.3	6845.2	3784.1	1977.4	1570.2	1502.9	1511.8	1544.8	1579.3	1603.2	1619.6
35°	8179.0	6545.9	3153.9	1667.6	1434.0	1396.6	1408.6	1426.6	1441.5	1459.5	1473.0
37.5°	8193.9	6313.8	2591.1	1474.5	1342.7	1323.3	1323.3	1323.3	1323.3	1332.2	1333.7
40°	8333.2	6180.6	2133.1	1351.7	1281.3	1260.4	1243.9	1228.9	1217.0	1222.9	1220.0
42.5°	8689.4	6168.6	1797.8	1273.9	1232.0	1197.5	1164.5	1143.7	1128.7	1134.6	1137.6
45°	9294.1	6318.3	1571.7	1218.5	1185.5	1133.1	1091.2	1068.8	1058.3	1077.8	1080.8
47.5°	10077.0	6644.6	1434.0	1178.0	1142.1	1073.2	1028.3	1007.4	1010.4	1038.9	1046.3
50°	11085.9	7174.6	1368.2	1152.6	1112.2	1022.4	976.0	958.0	966.9	1007.4	1016.4
52.5°	12193.6	7938.0	1375.6	1145.2	1092.7	984.9	935.6	914.6	929.6	966.9	974.5
55°	13471.9	8855.6	1499.9	1155.6	1064.3	961.0	902.6	866.7	878.6	913.1	919.1
57.5°	14892.5	9906.4	1749.8	1152.6	1028.3	938.5	868.2	814.3	823.3	844.3	850.2
60°	16371.4	11175.7	2137.5	1161.5	1011.8	911.6	821.8	754.5	751.5	769.4	772.3
62.5°	18146.7	12644.2	2580.7	1167.6	1022.4	877.1	760.4	694.6	685.5	690.1	693.1
65°	19975.9	13707.0	2414.5	1143.7	1055.3	848.7	706.5	636.2	619.7	616.7	618.2
67.5°	20032.7	12567.8	1693.0	1095.7	1068.8	833.7	666.1	586.8	559.9	549.3	547.8
70°	17965.5	10210.2	1318.8	1044.8	1014.9	809.8	628.7	546.4	505.9	489.4	487.9
71°	16956.7	9398.9	1249.9	1019.4	974.5	785.9	612.2	528.4	486.5	468.6	465.5
72.5°	15374.4	8425.9	1166.1	979.0	896.6	724.5	580.8	502.9	459.5	438.6	434.1
75°	11033.5	5510.0	1001.4	872.7	742.4	577.8	508.9	452.1	414.6	389.2	386.2
77.5°	4251.1	2193.0	757.4	726.0	568.8	452.1	419.1	390.7	363.8	338.3	336.8
80°	1314.2	980.5	552.3	546.4	411.7	336.8	326.3	318.9	308.3	281.4	275.5
82.5°	702.0	562.8	380.2	353.2	269.4	224.5	236.5	239.5	241.0	212.6	209.6
85°	335.3	297.9	214.1	200.6	157.2	125.8	145.2	157.2	158.6	130.2	121.3
87.5°	160.1	155.7	100.3	76.4	58.4	41.9	50.9	62.9	68.8	49.4	43.4
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)