

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: P382605

Luminaire Tested: **GLEON-SA0A-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42094.8 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

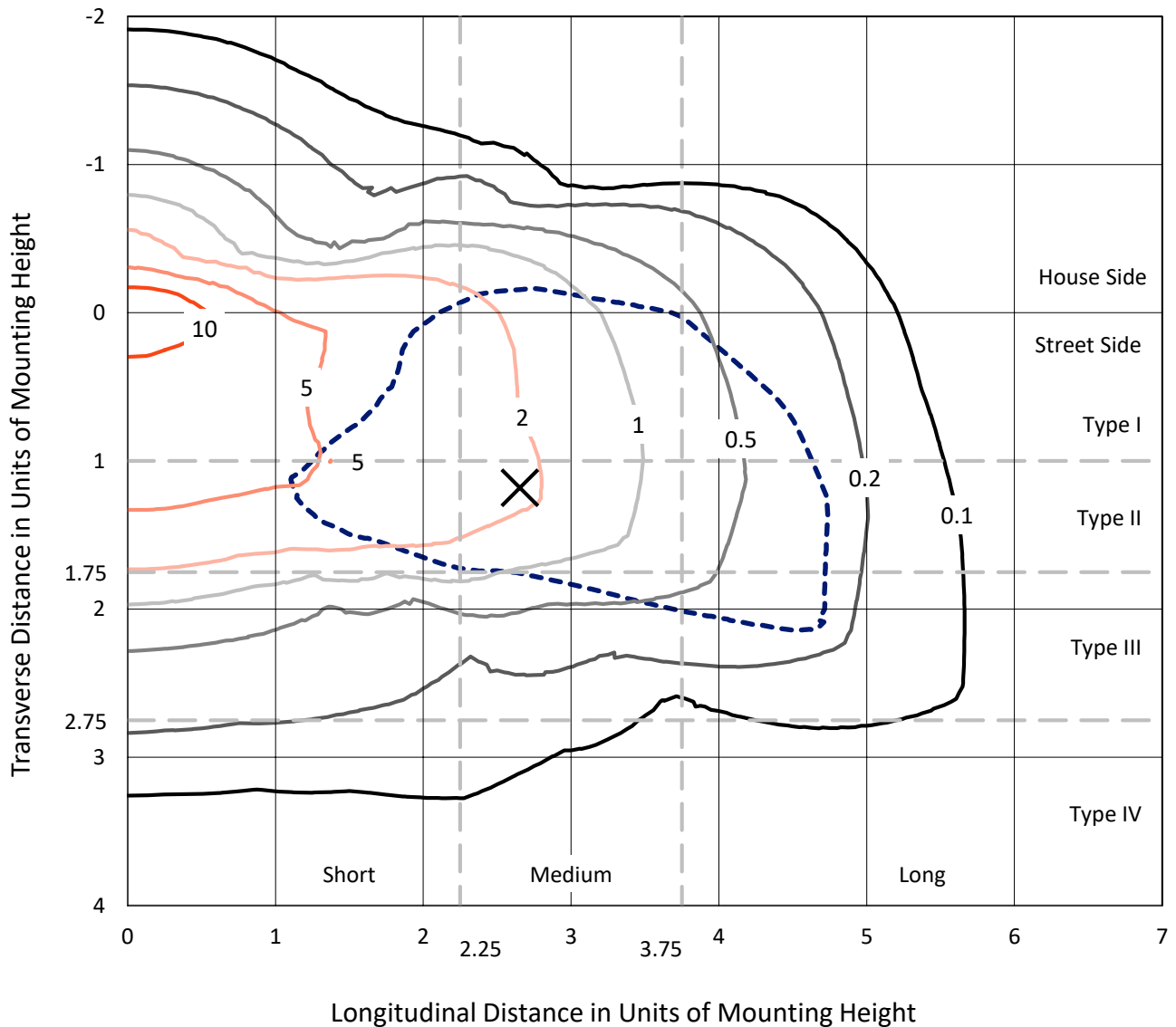
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

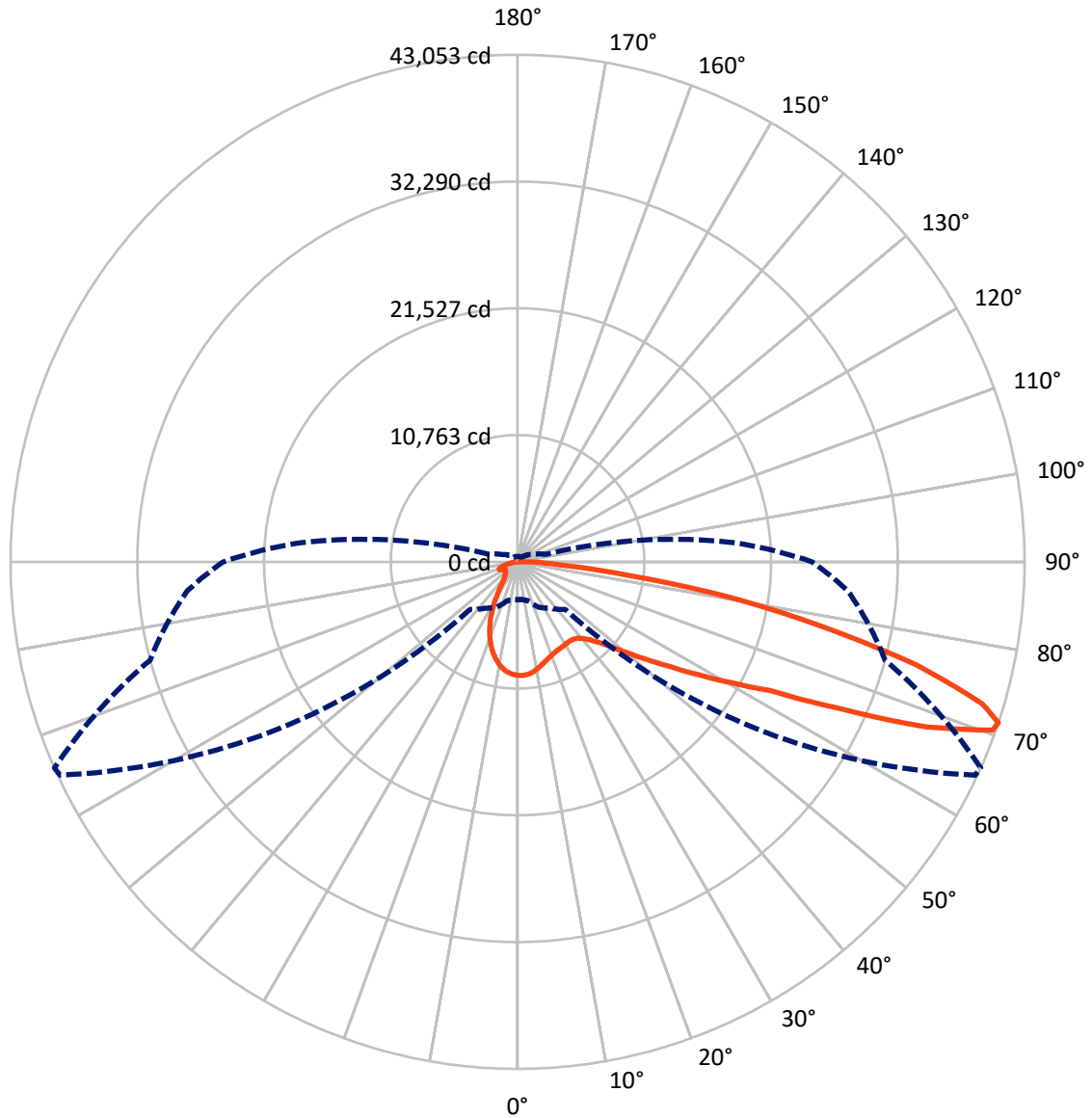
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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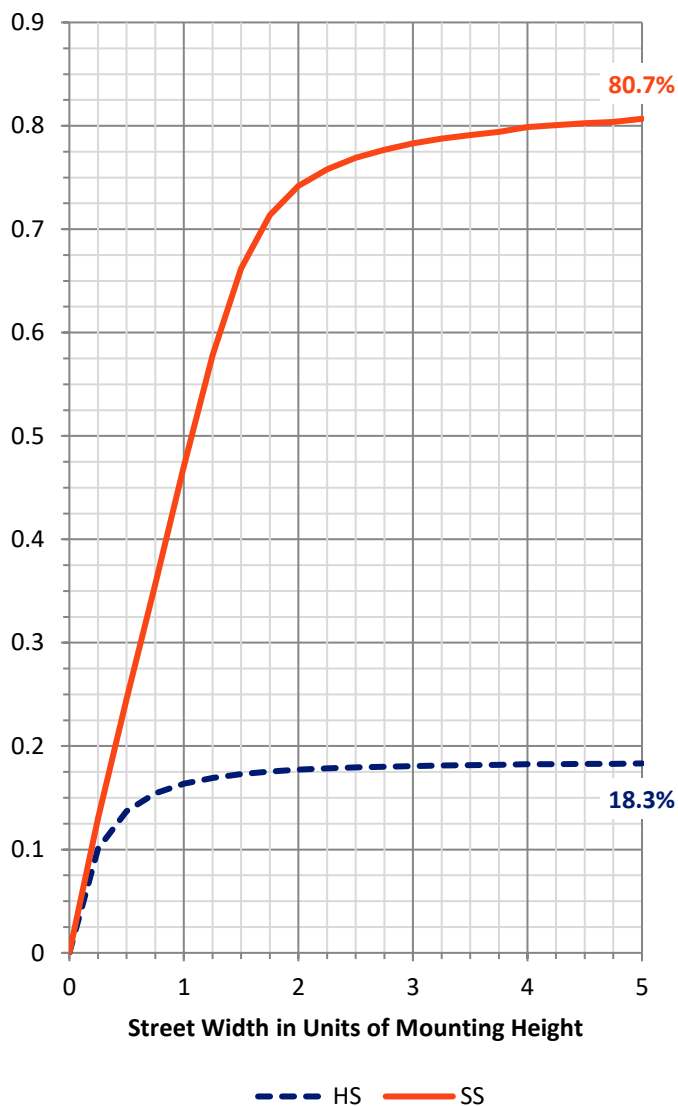
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7801.3	0.0	7801.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	34293.5	0.0	34293.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	42094.8	0.0	42094.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.8	2.0
10°-20°	2035.8	4.8
20°-30°	2734.7	6.5
30°-40°	3597.4	8.5
40°-50°	5233.3	12.4
50°-60°	8174.9	19.4
60°-70°	10240.4	24.3
70°-80°	7811.1	18.6
80°-90°	1418.4	3.4
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°	42094.8	100.0
0°-180°	42094.8	100.0

Coefficient of Utilization

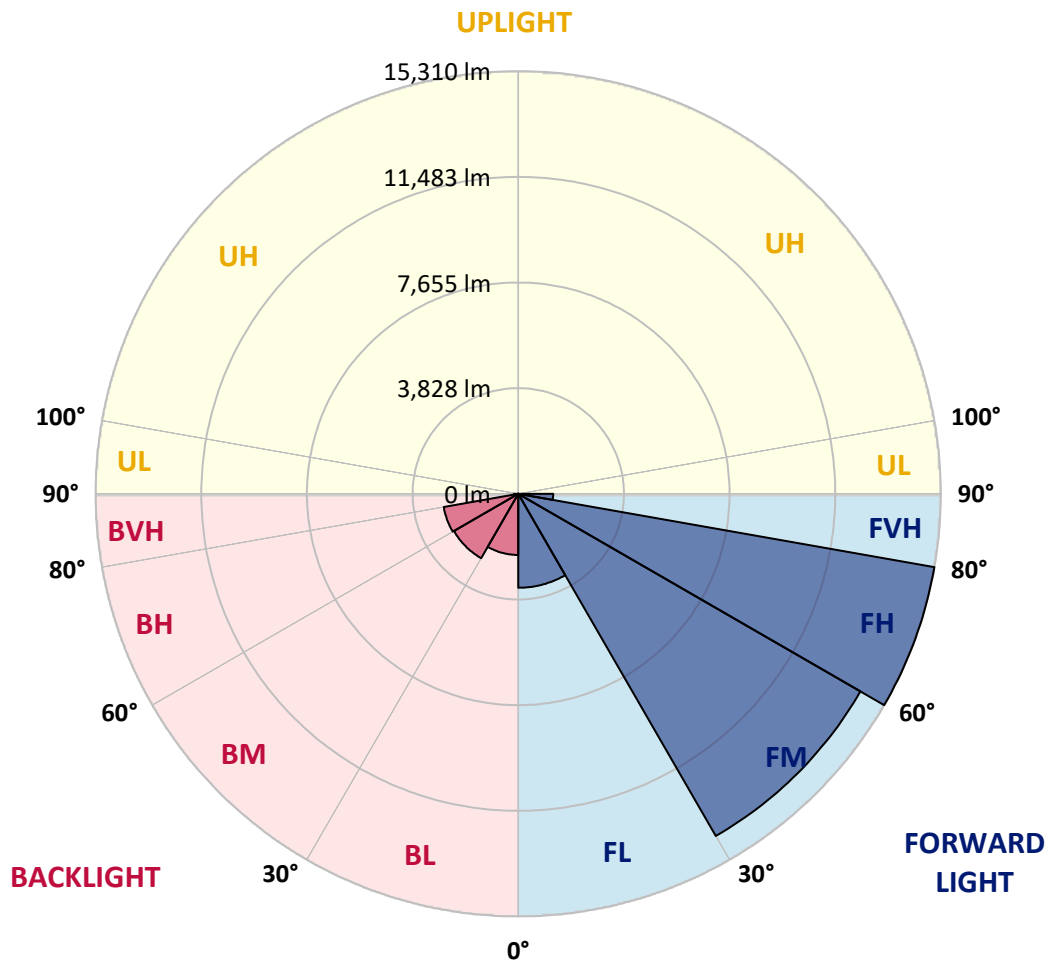


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3403.9	8.1			
FM (30°-60°)	14314.3	34.0			
FH (60°-80°)	15310.3	36.4			G5
FVH (80°-90°)	1264.9	3.0			G5
BL (0°-30°)	2215.4	5.3	B3/2500		
BM (30°-60°)	2691.2	6.4	B3/5000		
BH (60°-80°)	2741.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	153.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1
2.5°	9464.3	9449.8	9493.4	9538.5	9555.9	9585.0	9628.6	9653.3	9651.9	9656.1	9641.6
5°	8836.5	8817.6	8904.8	8976.0	9112.6	9266.7	9454.2	9587.9	9590.7	9666.4	9686.7
7.5°	8242.1	8229.0	8329.2	8444.1	8602.5	8838.0	9141.6	9429.5	9446.9	9651.9	9723.0
10°	7765.4	7762.4	7859.8	7984.8	8169.4	8432.5	8781.2	9202.8	9228.8	9582.1	9728.8
12.5°	7393.3	7399.1	7483.4	7625.8	7820.5	8095.2	8473.2	8948.4	8990.6	9471.6	9695.5
15°	7118.6	7141.9	7210.2	7354.0	7545.9	7824.9	8213.0	8713.0	8776.9	9348.1	9676.5
17.5°	6961.6	6987.8	7035.8	7154.9	7335.2	7604.0	7971.7	8519.7	8577.8	9253.6	9677.9
20°	6915.2	6937.0	6964.5	7037.2	7189.8	7433.9	7781.3	8345.3	8407.8	9178.0	9692.5
22.5°	7006.7	7022.7	7025.5	7019.8	7112.7	7311.9	7643.3	8217.4	8284.2	9128.6	9702.7
25°	7202.9	7224.7	7208.7	7154.9	7124.4	7246.5	7572.1	8133.1	8199.9	9092.3	9682.3
27.5°	7497.9	7500.8	7487.8	7418.0	7274.1	7253.8	7550.3	8083.6	8147.6	9050.1	9640.2
30°	7899.1	7918.0	7894.7	7800.2	7564.8	7370.0	7576.4	8035.7	8093.8	8996.3	9571.8
32.5°	8368.5	8415.0	8413.6	8314.7	7977.5	7630.2	7684.0	8006.6	8051.6	8939.7	9489.0
35°	8855.4	8919.3	9038.5	8996.3	8579.3	8041.5	7890.3	8053.1	8083.6	8932.4	9430.9
37.5°	9361.1	9425.1	9670.7	9784.0	9295.7	8630.1	8215.9	8217.4	8231.9	9021.0	9426.5
40°	9890.1	9958.5	10327.6	10622.6	10224.5	9375.7	8740.5	8560.4	8544.3	9239.1	9512.3
42.5°	10631.4	10692.4	11135.7	11512.2	11254.9	10330.6	9465.8	9089.4	9055.9	9666.4	9787.0
45°	11568.8	11621.1	12092.0	12494.6	12362.4	11420.6	10377.1	9817.5	9811.7	10378.5	10343.6
47.5°	12683.6	12724.2	13147.2	13536.7	13584.7	12674.8	11522.3	10940.9	10846.5	11355.2	11205.5
50°	13844.8	13889.8	14177.6	14596.1	14952.3	14353.5	12996.0	12317.3	12190.9	12644.3	12426.3
52.5°	14613.7	14673.2	14923.2	15453.6	16489.9	16193.5	14738.6	13985.8	13793.9	14206.7	14039.5
55°	14270.7	14404.3	14786.5	15636.8	17719.4	19004.2	16888.1	15931.8	15715.3	16058.3	15959.5
57.5°	12711.2	12894.3	13416.1	14728.4	17892.4	21480.7	20137.8	18223.8	18071.2	17972.3	18017.4
60°	9861.1	10037.0	10683.7	12394.3	16687.6	23288.8	25028.4	21049.2	20828.2	19893.7	19934.4
62.5°	6979.1	6890.4	7333.7	8585.0	13559.9	23501.0	30593.4	24827.9	24101.2	21922.6	21743.8
65°	5322.2	5301.9	5501.0	5899.2	8213.0	20962.0	33908.5	31179.1	30044.0	24309.0	23887.6
67.5°	4373.2	4336.8	4533.1	5113.0	5288.8	13523.6	33981.2	38547.7	37432.9	27279.7	26367.0
70°	3595.6	3555.0	3738.0	4486.5	4887.6	6858.4	28599.3	42862.7	42803.1	31041.0	28238.9
71°	3223.5	3194.5	3413.9	4245.2	4801.9	5716.1	24692.7	42874.4	43053.1	32314.2	28128.5
72.5°	2624.8	2635.0	2867.5	3778.7	4737.9	5047.6	18148.2	40875.9	41253.9	33527.8	27124.2
75°	1744.0	1752.8	2058.0	2906.7	4594.1	4938.5	9974.5	34299.5	34994.2	32801.1	24750.8
77.5°	1171.4	1168.5	1376.4	1994.0	4002.6	4938.5	5848.3	25653.4	26416.5	26099.5	19081.3
80°	806.6	800.9	947.6	1376.4	3030.2	4998.1	4521.5	17978.1	18209.2	14094.8	7755.1
82.5°	494.2	498.5	619.1	972.3	2062.4	4498.2	4268.5	9803.0	9551.5	3953.1	1937.3
85°	283.4	282.0	395.3	658.4	1324.0	3796.2	4162.4	4219.2	3870.3	1190.3	700.5
87.5°	101.7	109.0	212.2	364.8	758.7	2643.6	3531.7	2194.5	1978.0	537.8	316.8
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°	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1	9643.1
2.5°	9631.5	9640.2	9630.1	9571.8	9522.5	9442.5	9397.5	9334.9	9316.1	9307.4	9330.7
5°	9667.8	9670.7	9585.0	9432.4	9260.9	9058.8	8913.5	8734.7	8650.4	8614.1	8637.4
7.5°	9701.2	9688.2	9500.7	9208.5	8891.7	8540.0	8227.5	7941.2	7774.0	7705.8	7711.5
10°	9705.6	9650.4	9349.5	8897.5	8406.3	7890.3	7410.7	6968.9	6689.8	6508.2	6563.4
12.5°	9660.5	9567.6	9127.1	8495.0	7813.3	7109.9	6461.7	5799.0	5400.7	5216.1	5222.0
15°	9625.7	9457.1	8853.9	8021.2	7105.5	6173.9	5288.8	4509.8	4085.4	3896.5	3807.8
17.5°	9596.6	9337.9	8537.1	7487.8	6269.9	5088.2	4024.4	3329.6	3097.1	3041.9	3018.7
20°	9555.9	9211.4	8183.9	6870.1	5317.8	3873.2	2938.8	2595.8	2597.2	2661.2	2669.8
22.5°	9499.2	9067.6	7807.5	6176.8	4296.1	2821.0	2303.6	2204.8	2305.0	2427.1	2448.9
25°	9415.0	8897.5	7388.9	5410.9	3275.9	2168.5	1967.9	1963.5	2085.5	2213.5	2232.4
27.5°	9295.7	8675.1	6923.8	4588.2	2414.0	1842.9	1763.0	1793.4	1883.6	1976.6	1983.8
30°	9135.9	8416.4	6410.8	3720.6	1892.3	1640.8	1632.2	1659.7	1715.0	1780.4	1786.1
32.5°	8960.0	8153.4	5862.9	2880.5	1620.5	1531.8	1540.6	1553.6	1579.8	1606.0	1611.8
35°	8800.1	7884.5	5301.9	2188.8	1491.1	1460.7	1454.8	1451.9	1454.8	1446.1	1447.5
37.5°	8696.9	7662.2	4717.6	1742.6	1417.1	1398.2	1380.7	1358.9	1334.2	1319.6	1322.6
40°	8659.2	7496.4	4126.1	1505.7	1356.0	1342.9	1309.5	1263.0	1233.9	1225.2	1225.2
42.5°	8760.9	7410.7	3555.0	1386.5	1305.1	1283.3	1228.1	1174.3	1152.5	1151.1	1149.6
45°	9072.0	7445.6	3011.4	1321.1	1258.6	1216.5	1143.8	1098.8	1084.2	1087.1	1085.6
47.5°	9630.1	7665.1	2546.3	1277.5	1212.1	1156.9	1075.5	1039.1	1021.7	1021.7	1023.2
50°	10579.0	8178.1	2175.7	1241.2	1172.9	1101.6	1026.1	981.0	957.7	956.3	956.3
52.5°	11961.3	9096.7	1944.6	1210.6	1129.2	1052.3	976.6	920.0	892.3	886.6	883.7
55°	13693.7	10413.4	1880.7	1190.3	1071.1	998.4	917.1	860.4	829.9	816.8	815.4
57.5°	15631.0	12015.0	2007.1	1165.6	1011.6	934.5	851.7	797.9	765.9	749.9	748.5
60°	17591.5	13763.4	2523.0	1130.7	962.1	864.8	784.8	735.4	703.4	686.0	683.1
62.5°	19555.0	15606.3	3576.8	1127.8	927.3	797.9	716.5	674.3	643.9	625.0	620.6
65°	21770.0	17623.6	4774.3	1204.9	915.6	736.9	646.8	613.3	587.2	569.7	568.2
67.5°	24313.4	19900.9	4659.5	1363.2	954.8	681.6	581.4	555.2	536.3	521.8	520.3
70°	25506.6	19544.9	2896.6	1475.2	1010.1	627.9	518.9	500.0	485.4	475.3	470.9
71°	25006.7	18558.0	2428.5	1462.1	1004.3	604.6	494.2	479.7	465.1	456.4	452.0
72.5°	23643.4	16924.4	2026.0	1360.3	938.9	562.5	462.1	447.6	434.6	424.4	421.4
75°	21216.3	15115.0	1621.9	1087.1	748.5	475.3	405.5	389.5	379.3	373.6	367.7
77.5°	15596.1	10786.9	1254.2	859.0	550.8	388.1	345.9	334.2	324.1	315.4	311.0
80°	5974.8	4178.5	844.4	640.9	404.0	306.7	279.1	273.2	263.1	257.2	257.2
82.5°	1608.9	1248.5	450.6	388.1	270.3	223.9	213.6	210.7	202.1	190.4	191.8
85°	651.2	550.8	252.9	213.6	165.7	132.3	143.9	145.3	135.2	120.6	122.1
87.5°	286.4	234.0	140.9	94.5	72.7	50.9	65.4	65.4	59.6	49.4	45.1
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)