

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: P383617

Luminaire Tested: **GLEON-SA9A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36879 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

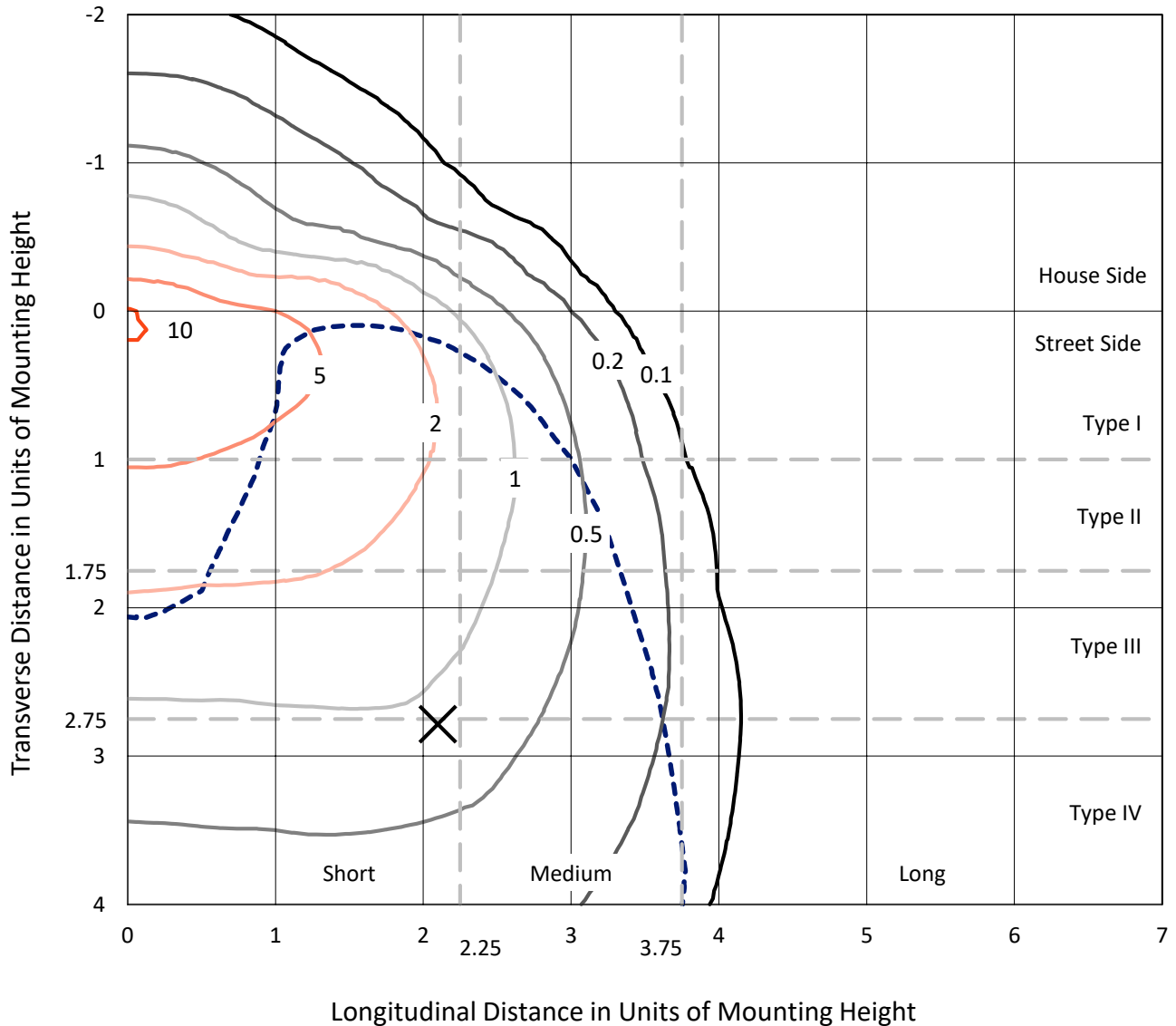
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

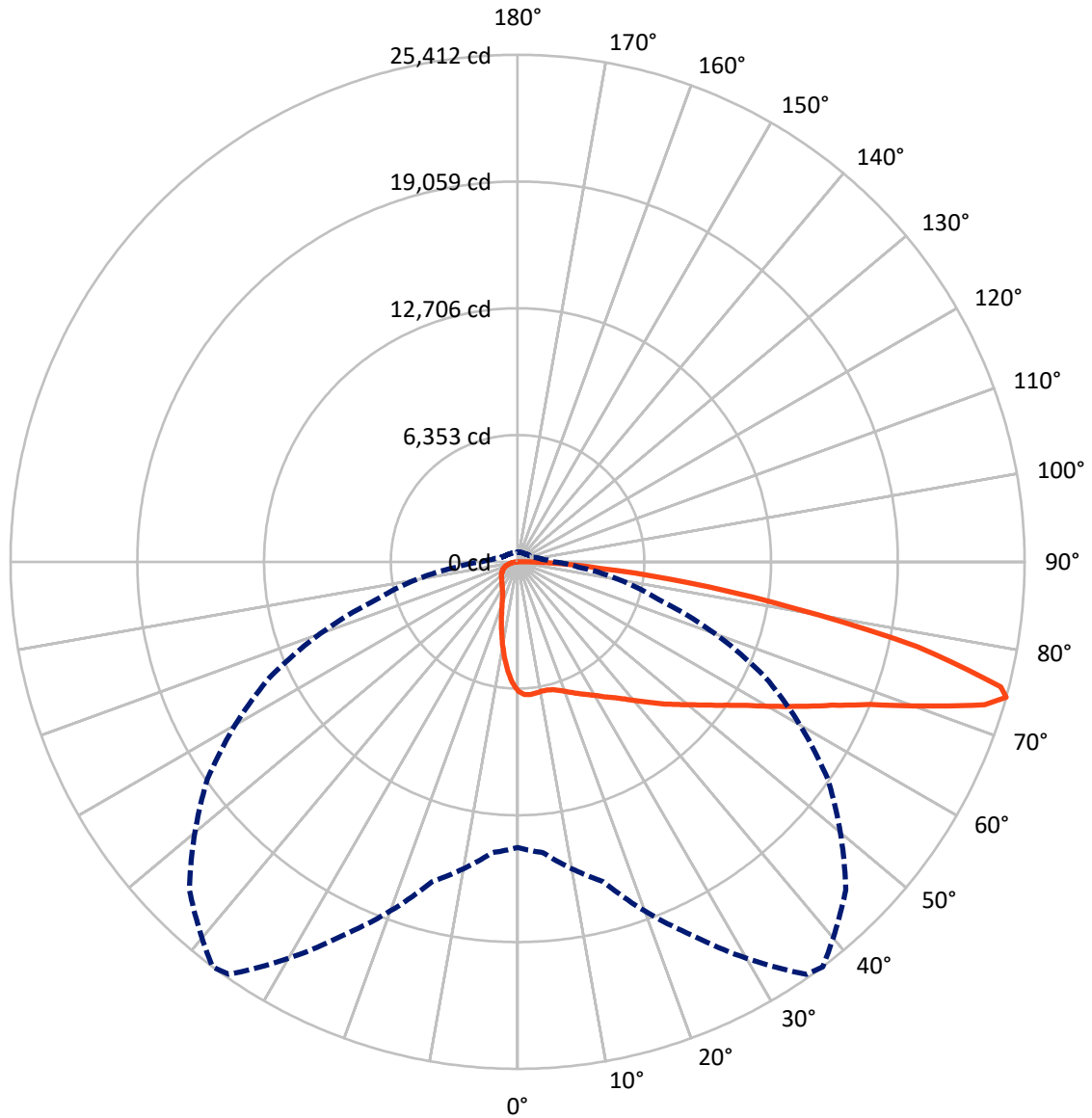
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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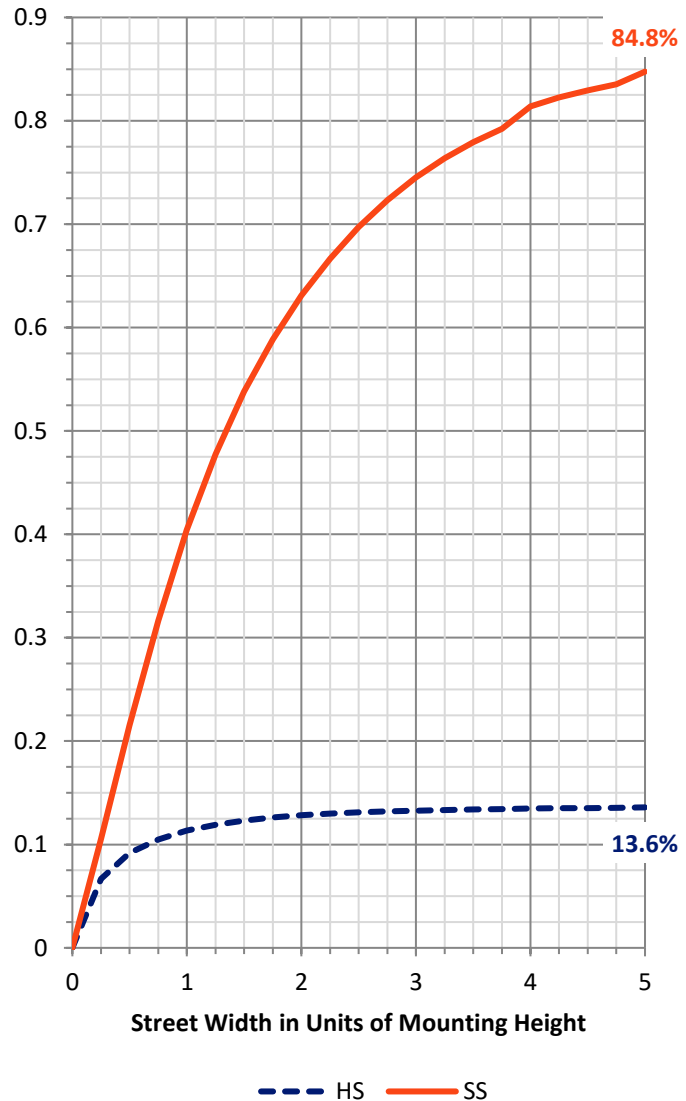
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5074.3	0.0	5074.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	31804.7	0.0	31804.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	36879.0	0.0	36879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.2	1.6
10°-20°	1466.7	4.0
20°-30°	2260.0	6.1
30°-40°	3286.3	8.9
40°-50°	4836.9	13.1
50°-60°	6792.6	18.4
60°-70°	8597.3	23.3
70°-80°	7570.2	20.5
80°-90°	1496.8	4.1
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°	36879.0	100.0
0°-180°	36879.0	100.0

Coefficient of Utilization



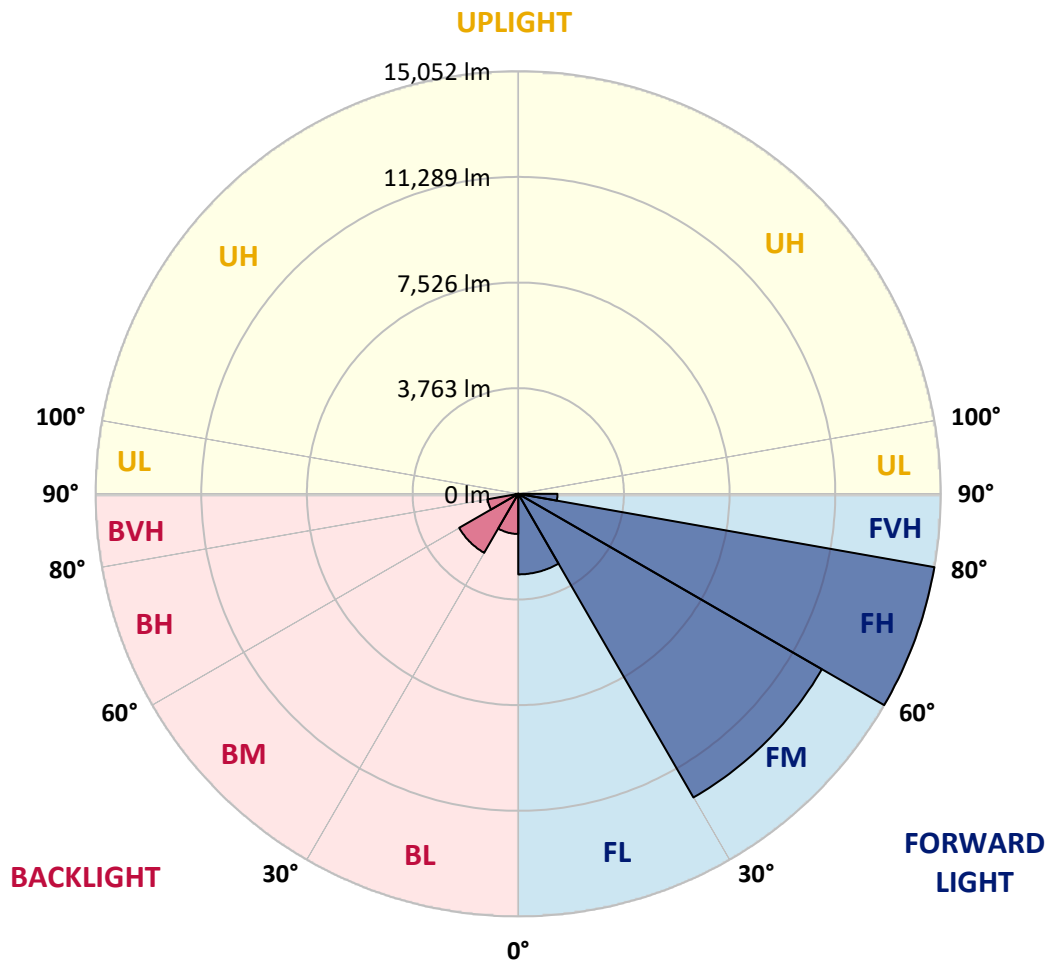
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2869.6	7.8			
FM (30°-60°)	12487.5	33.9			
FH (60°-80°)	15052.1	40.8			G5
FVH (80°-90°)	1395.4	3.8			G5
BL (0°-30°)	1429.3	3.9	B3/2500		
BM (30°-60°)	2428.2	6.6	B2/2500		
BH (60°-80°)	1115.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	101.4	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9
2.5°	6720.1	6721.4	6720.1	6709.7	6685.0	6664.2	6647.3	6622.7	6568.1	6526.5	6464.2
5°	6783.7	6776.0	6770.8	6751.3	6712.3	6688.9	6656.5	6609.7	6520.0	6436.9	6335.5
7.5°	6753.9	6744.8	6733.0	6709.7	6665.5	6646.0	6600.6	6539.6	6431.7	6322.6	6177.1
10°	6661.6	6659.0	6653.9	6648.6	6611.0	6595.4	6553.8	6488.9	6382.3	6249.8	6079.7
12.5°	6559.0	6565.5	6586.3	6613.5	6596.7	6588.8	6562.9	6518.7	6409.6	6266.7	6061.5
15°	6494.0	6512.3	6568.1	6639.5	6653.9	6651.2	6644.7	6616.1	6500.5	6342.1	6103.0
17.5°	6471.9	6501.8	6608.4	6726.6	6768.2	6777.3	6779.8	6730.4	6601.9	6434.3	6145.9
20°	6512.3	6549.9	6705.8	6868.2	6934.4	6939.7	6927.9	6842.2	6698.0	6513.6	6169.3
22.5°	6634.4	6668.1	6863.0	7046.1	7121.5	7129.3	7094.2	6964.3	6799.4	6607.1	6201.8
25°	6869.5	6911.1	7105.9	7289.1	7328.0	7329.3	7278.6	7117.6	6931.8	6738.3	6271.9
27.5°	7176.1	7217.6	7393.0	7572.3	7551.5	7539.8	7470.9	7309.9	7104.6	6918.9	6396.7
30°	7517.7	7563.1	7729.4	7856.8	7807.4	7784.0	7728.1	7520.3	7345.0	7165.7	6587.6
32.5°	7871.0	7912.7	8058.2	8145.2	8082.9	8072.4	7988.0	7798.4	7658.0	7542.4	6896.7
35°	8233.5	8263.4	8406.3	8455.7	8372.5	8369.9	8346.5	8172.5	8084.1	8138.7	7346.3
37.5°	8603.8	8611.5	8733.6	8736.2	8711.6	8722.0	8746.7	8637.5	8662.2	8832.4	7930.8
40°	8933.7	8954.5	9042.8	9070.1	9113.0	9149.4	9272.7	9201.3	9392.2	9693.7	8658.3
42.5°	9177.9	9218.2	9359.8	9430.0	9569.0	9626.1	9800.2	9866.4	10250.9	10703.0	9523.5
45°	9384.5	9446.8	9674.1	9818.3	10053.5	10153.5	10403.0	10625.0	11221.3	11798.1	10434.1
47.5°	9607.9	9687.2	9971.7	10247.0	10566.6	10679.6	11133.0	11465.6	12256.7	12899.8	11292.8
50°	9936.5	9997.6	10275.6	10708.2	11107.0	11252.5	11880.0	12356.7	13308.9	13949.4	12037.2
52.5°	10395.1	10371.8	10606.9	11213.6	11748.8	11928.1	12677.6	13305.1	14375.5	14899.0	12665.9
55°	10856.3	10817.3	10982.3	11742.3	12497.1	12685.4	13555.8	14257.2	15390.1	15753.8	13147.9
57.5°	11369.4	11295.4	11434.4	12338.5	13349.3	13574.0	14539.2	15269.3	16387.8	16444.9	13454.4
60°	11898.2	11798.1	11954.0	13077.7	14431.3	14696.4	15690.1	16256.5	17328.3	16998.3	13553.2
62.5°	12360.6	12290.5	12530.8	13902.6	15651.2	15942.1	16820.3	17306.2	18255.8	17228.2	13197.2
65°	12764.6	12776.4	13192.0	14830.1	17011.3	17321.8	18116.8	18600.0	18985.9	17091.8	12364.5
67.5°	13246.6	13312.8	14022.1	16051.3	18723.5	19063.8	20003.0	20010.9	19393.8	16291.6	10725.1
70°	13949.4	14085.8	15164.0	17745.3	21158.0	21625.6	22350.5	20839.7	18820.9	14122.2	8438.8
72.5°	14572.9	14827.5	16378.7	19683.5	24125.0	24479.7	23723.6	20361.6	16426.7	10583.5	5257.4
74°	14319.7	14635.4	16599.5	20638.3	25242.2	25412.4	23259.8	18966.4	13696.1	7329.3	3055.4
75°	13774.0	14117.0	16277.3	20629.2	25100.6	25005.8	22140.0	17372.4	11279.8	4998.8	2033.0
77.5°	11116.2	11478.5	13715.5	17680.3	20581.1	20491.5	17007.5	11653.9	4940.4	1639.4	1032.7
80°	6462.9	6739.6	8514.1	11227.9	13877.9	14040.4	11185.0	5766.6	1943.4	921.0	700.2
82.5°	2870.9	3061.9	4112.9	5731.5	8375.1	8584.2	5857.5	3021.7	1200.3	559.9	420.9
85°	1883.7	2025.3	2496.8	2729.3	3988.1	4131.0	2867.0	2352.6	792.5	307.9	309.2
87.5°	1354.9	1491.3	1855.1	1620.0	1830.4	1733.0	1560.2	2177.2	318.3	175.4	104.0
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°	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9	6497.9
2.5°	6436.9	6416.1	6369.4	6281.0	6231.7	6190.0	6121.2	6081.0	6062.8	6061.5	6069.2
5°	6277.1	6229.1	6108.3	5960.1	5841.9	5734.0	5600.3	5519.7	5462.6	5428.8	5437.9
7.5°	6091.3	6016.0	5826.4	5589.9	5400.3	5191.0	4984.5	4861.1	4765.0	4693.5	4706.6
10°	5964.0	5860.1	5583.4	5243.0	4927.3	4623.4	4338.9	4168.7	4033.6	3929.6	3937.5
12.5°	5921.2	5780.8	5397.7	4943.0	4499.9	4084.3	3712.8	3451.7	3312.6	3194.4	3203.5
15°	5927.6	5739.3	5241.7	4672.7	4115.5	3592.0	3141.2	2835.9	2647.5	2565.7	2567.0
17.5°	5932.8	5691.2	5078.1	4383.0	3734.9	3132.0	2642.3	2333.2	2155.1	2079.8	2081.1
20°	5916.0	5613.3	4875.4	4050.5	3337.3	2709.9	2235.7	1973.3	1838.2	1779.7	1779.7
22.5°	5893.9	5521.0	4646.7	3716.6	2945.0	2343.5	1944.7	1744.7	1666.7	1627.7	1626.4
25°	5904.2	5452.2	4412.9	3373.7	2583.8	2051.3	1751.1	1618.7	1566.7	1542.0	1540.7
27.5°	5960.1	5419.7	4197.3	3032.0	2268.1	1831.7	1621.3	1527.7	1493.9	1478.4	1478.4
30°	6061.5	5419.7	3972.6	2741.1	2005.8	1669.3	1521.2	1457.6	1434.2	1423.8	1423.8
32.5°	6238.1	5449.6	3755.6	2452.7	1796.6	1542.0	1438.0	1395.2	1377.0	1371.8	1371.8
35°	6542.1	5550.9	3543.9	2179.8	1627.7	1438.0	1358.8	1334.2	1321.1	1319.8	1323.7
37.5°	6969.5	5757.4	3345.1	1978.5	1508.2	1353.6	1292.6	1273.1	1265.3	1271.7	1277.0
40°	7507.3	6038.1	3164.6	1796.6	1417.3	1286.1	1231.5	1218.6	1214.6	1223.7	1231.5
42.5°	8156.8	6417.4	3016.4	1665.4	1347.1	1228.9	1179.5	1164.0	1160.1	1170.5	1180.8
45°	8859.7	6825.3	2912.5	1568.0	1292.6	1186.0	1134.1	1117.2	1109.4	1114.6	1126.3
47.5°	9498.8	7211.1	2870.9	1499.1	1240.6	1149.7	1093.8	1073.0	1060.0	1057.4	1066.5
50°	10037.9	7498.2	2890.4	1457.6	1199.0	1109.4	1054.9	1031.5	1011.9	1000.3	1006.8
52.5°	10430.3	7678.8	2908.6	1439.3	1166.6	1065.2	1011.9	989.9	963.9	944.4	944.4
55°	10714.8	7720.4	2868.3	1425.1	1141.9	1017.2	963.9	943.1	917.1	895.0	892.4
57.5°	10826.4	7603.5	2718.9	1404.3	1125.0	971.7	913.3	897.6	875.6	849.6	848.3
60°	10675.7	7242.3	2430.6	1360.2	1103.0	934.1	862.6	852.2	841.8	817.2	815.8
62.5°	10070.4	6449.8	2057.7	1270.4	1058.7	893.7	815.8	821.0	822.3	805.4	802.8
65°	8972.7	5361.2	1694.0	1153.5	992.5	845.7	767.8	792.5	806.7	804.1	800.2
67.5°	7377.4	4172.6	1435.5	1030.2	905.5	779.4	715.8	744.4	756.0	765.2	762.6
70°	5475.5	2942.4	1187.4	900.2	800.2	701.5	648.3	662.5	654.7	665.1	669.0
72.5°	3052.8	1765.5	967.8	770.4	691.1	610.5	572.9	570.3	553.4	553.4	553.4
74°	1831.7	1295.1	850.9	689.8	624.9	550.8	518.3	506.7	491.0	492.3	491.0
75°	1473.1	1113.3	780.7	636.5	578.1	515.7	483.3	467.6	456.0	456.0	454.7
77.5°	930.2	845.7	628.8	506.7	462.5	424.8	402.7	381.9	381.9	380.6	379.3
80°	702.8	672.9	489.7	383.2	354.6	326.0	311.8	302.7	302.7	306.6	305.3
82.5°	482.0	506.7	344.2	267.6	253.3	232.5	229.9	231.2	227.3	222.2	220.9
85°	352.0	380.6	232.5	168.9	154.5	141.6	152.0	157.2	150.7	139.0	133.8
87.5°	135.1	249.4	124.7	70.1	64.9	55.9	64.9	67.5	72.8	57.2	58.5
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)