

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: P647162

Luminaire Tested: **GALN-SA9C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA 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: 49813.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

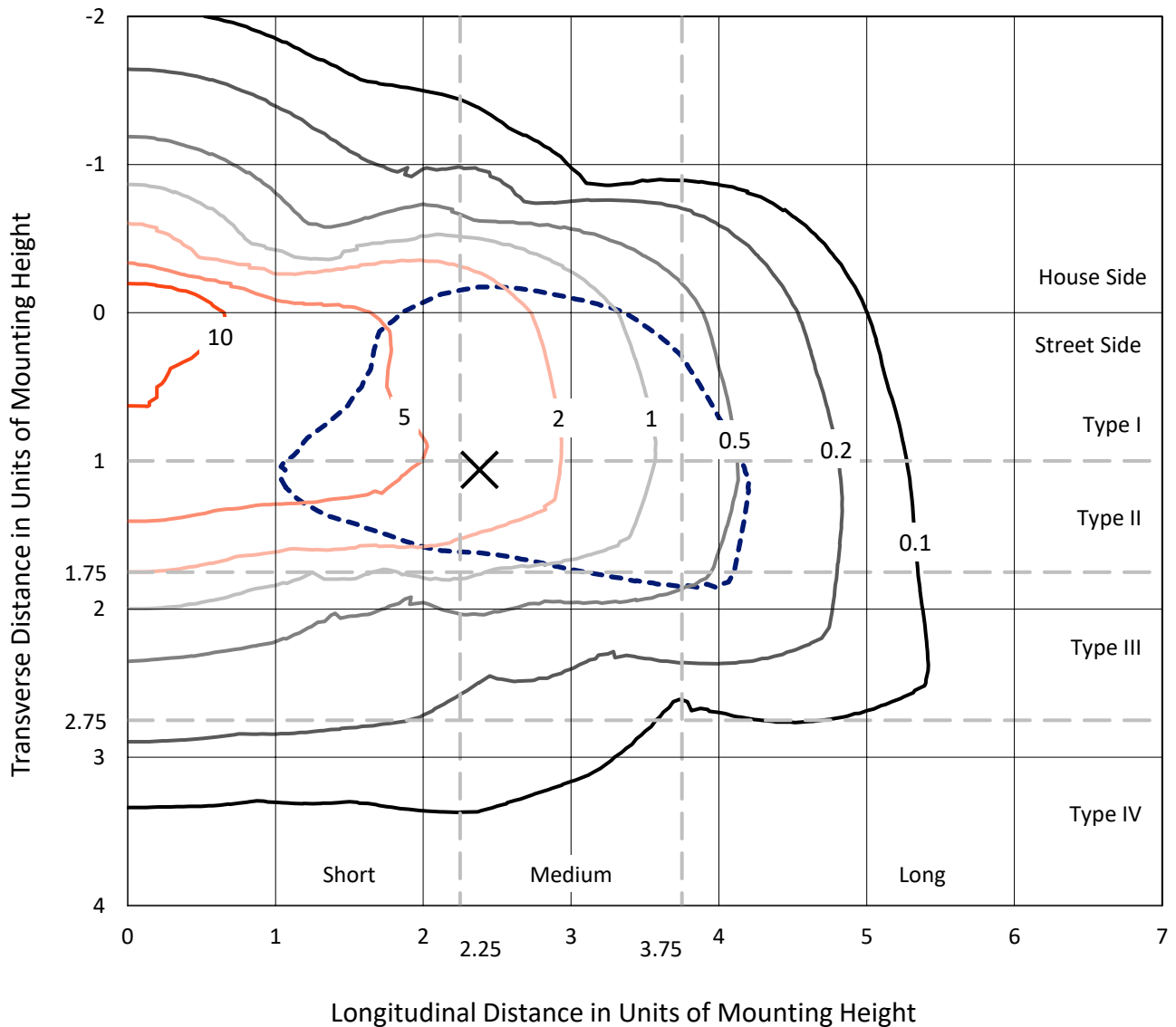
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

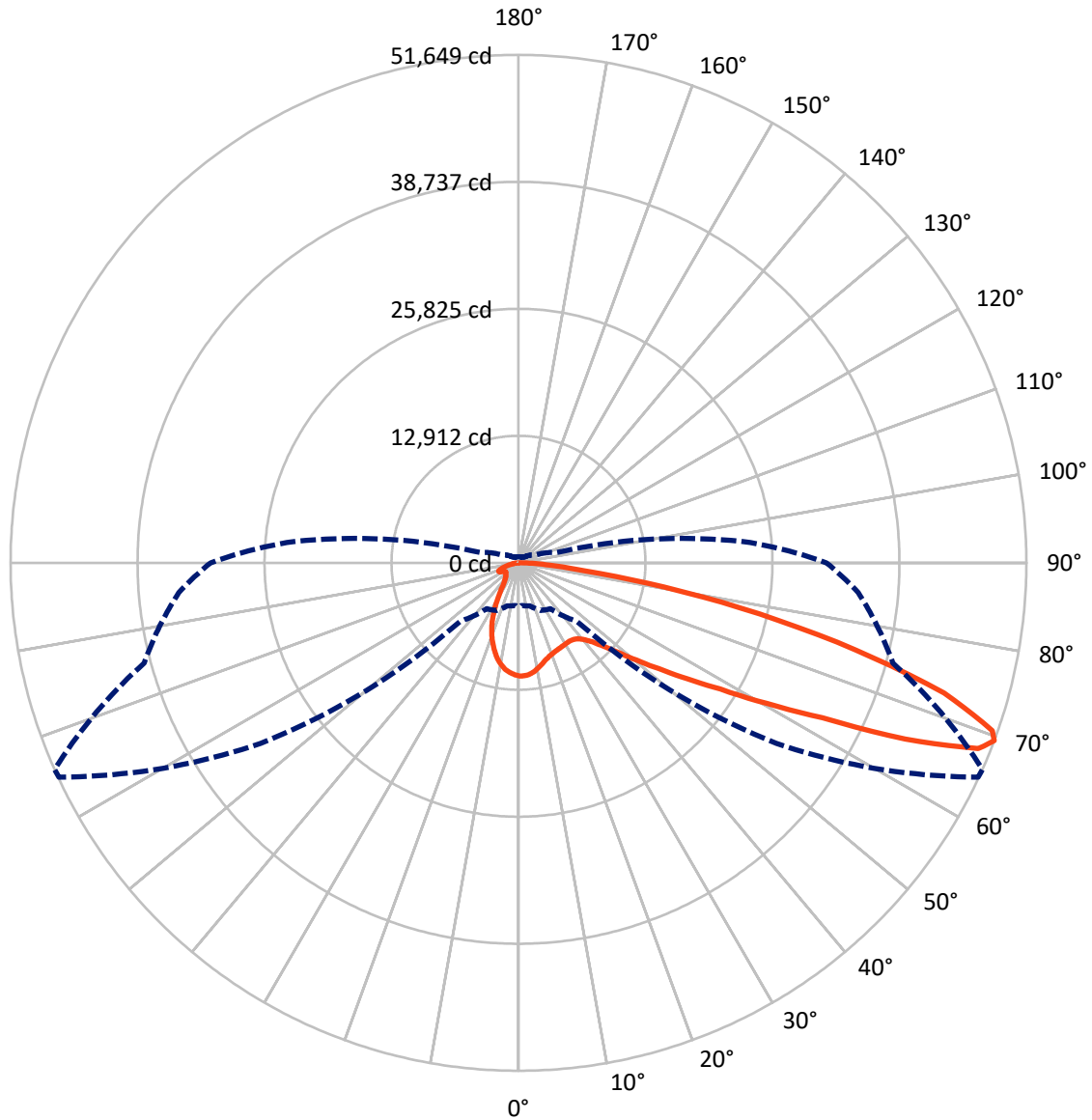
× Max cd
 - - - 1/2 Max cd



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 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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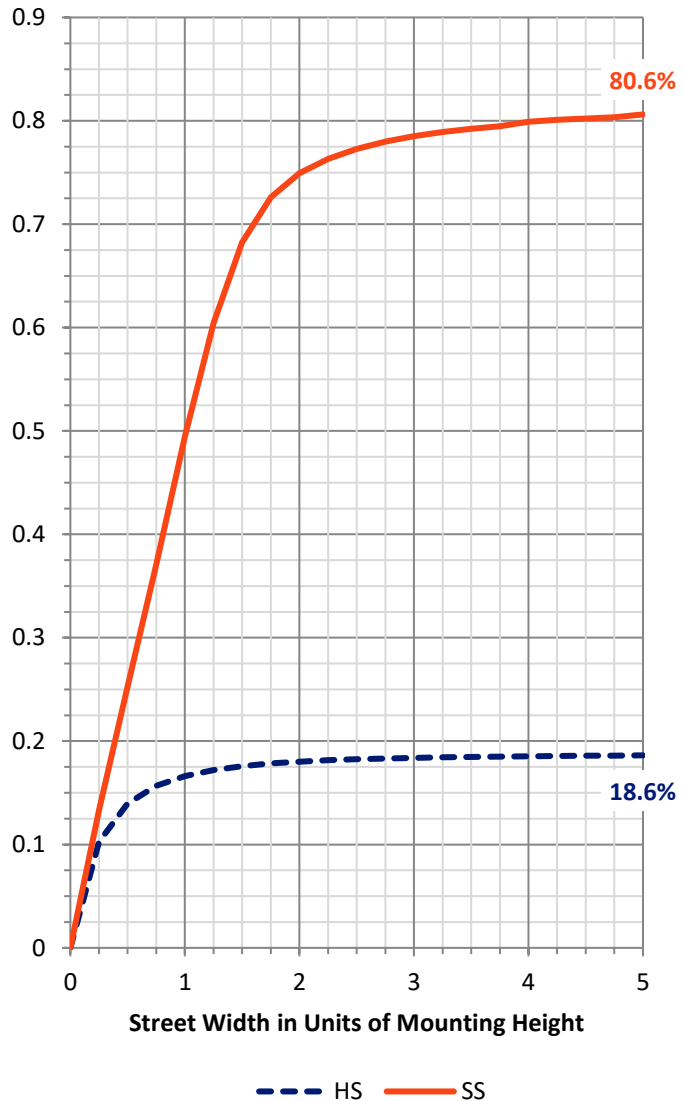
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9368.1	0.0	9368.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	40445.6	0.0	40445.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	49813.7	0.0	49813.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.9	2.0
10°-20°	2369.4	4.8
20°-30°	3225.6	6.5
30°-40°	4334.6	8.7
40°-50°	6472.2	13.0
50°-60°	10295.1	20.7
60°-70°	12662.4	25.4
70°-80°	8238.8	16.5
80°-90°	1216.6	2.4
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°	49813.7	100.0
0°-180°	49813.7	100.0

Coefficient of Utilization

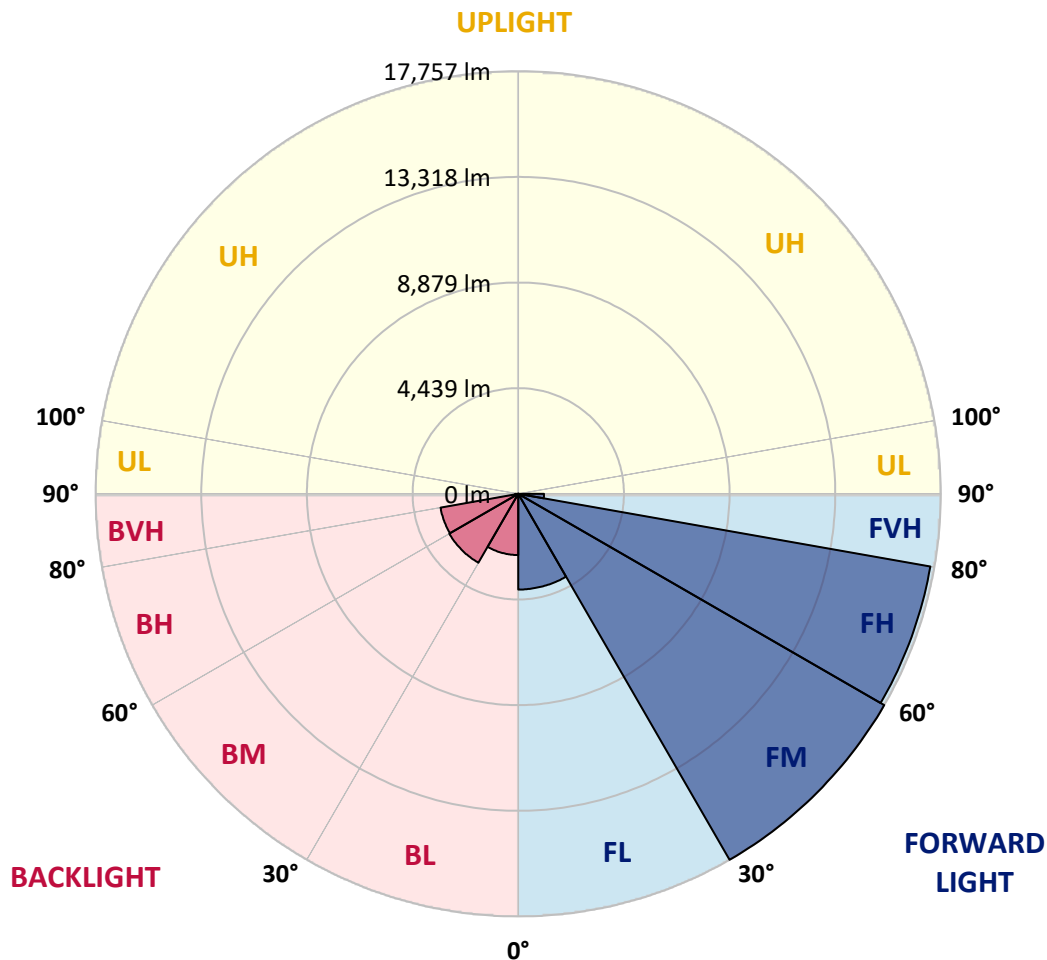


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4022.4	8.1			
FM (30°-60°)	17757.1	35.6			
FH (60°-80°)	17584.5	35.3			G5
FVH (80°-90°)	1081.6	2.2			G5
BL (0°-30°)	2571.6	5.2	B4/5000		
BM (30°-60°)	3344.8	6.7	B3/5000		
BH (60°-80°)	3316.7	6.7	B4/5000		G4/5000
BVH (80°-90°)	135.0	0.3			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°	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4
2.5°	11100.6	11144.8	11194.4	11249.6	11354.4	11412.3	11453.7	11500.6	11506.1	11530.9	11511.7
5°	10281.3	10333.7	10408.2	10513.0	10670.3	10915.8	11169.6	11376.4	11401.3	11517.1	11550.3
7.5°	9597.2	9627.5	9688.2	9856.5	10080.0	10353.1	10722.7	11142.0	11202.7	11478.5	11575.1
10°	9040.0	9070.3	9142.0	9315.8	9536.5	9878.6	10284.1	10835.8	10885.4	11359.9	11580.6
12.5°	8623.4	8651.0	8728.2	8899.3	9153.0	9473.0	9919.9	10504.7	10576.5	11202.7	11528.2
15°	8306.1	8358.5	8422.0	8562.7	8830.3	9139.3	9572.3	10201.3	10259.3	11037.2	11492.3
17.5°	8171.0	8195.8	8239.9	8369.6	8565.5	8868.9	9304.8	9964.1	10033.0	10921.3	11484.0
20°	8176.5	8201.3	8209.6	8281.3	8422.0	8684.1	9114.4	9776.5	9859.2	10819.3	11497.8
22.5°	8364.1	8366.8	8336.5	8311.6	8366.8	8584.7	8979.2	9635.8	9732.4	10775.1	11508.8
25°	8653.7	8703.4	8659.3	8543.4	8441.3	8546.1	8926.8	9558.6	9649.6	10711.7	11495.1
27.5°	9122.7	9131.0	9095.1	8937.9	8673.1	8595.8	8904.7	9500.6	9577.9	10664.8	11426.1
30°	9751.6	9726.8	9693.7	9519.9	9103.4	8786.1	8951.6	9448.2	9528.2	10595.8	11343.4
32.5°	10388.9	10466.1	10435.7	10231.6	9691.0	9155.8	9103.4	9442.7	9508.9	10543.4	11252.3
35°	11064.7	11100.6	11244.0	11139.2	10584.8	9754.4	9387.5	9528.2	9580.6	10546.1	11188.9
37.5°	11594.4	11691.0	12027.5	12118.5	11597.2	10546.1	9848.2	9771.0	9793.1	10681.3	11213.7
40°	12234.4	12399.9	12833.0	13205.5	12863.4	11575.1	10631.7	10220.6	10248.2	11006.8	11376.4
42.5°	13045.4	13161.3	13743.4	14248.2	14193.0	12935.1	11580.6	10957.1	10970.9	11655.1	11831.6
45°	13994.4	14159.9	14813.7	15572.3	15702.0	14474.4	12951.6	12071.7	12063.4	12662.0	12681.3
47.5°	15208.1	15310.2	15958.5	16786.1	17310.3	16408.2	14615.1	13671.6	13583.3	14129.5	13972.3
50°	16325.4	16485.4	16976.5	17881.2	19186.1	18673.0	16802.6	15746.1	15539.2	16049.5	15784.7
52.5°	16794.3	16962.6	17376.4	18499.2	20794.4	21602.6	19580.6	18220.6	17875.7	18267.5	18170.9
55°	15980.6	16198.5	16584.7	17950.2	21500.6	24981.8	23326.7	21081.3	20830.2	20661.9	20689.5
57.5°	13793.0	13999.9	14521.3	16027.5	20656.4	27434.3	28675.7	24758.5	24220.5	23445.4	23577.8
60°	10499.2	10628.9	10899.2	12568.2	18154.3	28071.5	34750.1	29406.7	29064.6	26217.7	26311.5
62.5°	7456.5	7602.7	7790.3	8623.4	13291.0	26275.7	39505.9	35897.7	34675.6	29089.5	28998.4
65°	6055.1	5955.8	6182.0	6571.0	7798.5	20364.0	40576.2	44907.2	43224.5	32871.5	31608.1
67.5°	4979.3	4874.4	5097.9	5790.3	5931.0	11820.6	36719.7	50755.5	50418.9	36984.5	34259.1
69°	4408.2	4353.1	4548.9	5337.9	5693.7	8394.4	31988.8	51569.2	51649.3	39409.3	34667.3
70°	3972.4	3994.5	4184.8	5108.9	5586.2	6921.3	27340.5	50446.5	51125.1	40620.4	34225.9
72.5°	2924.1	2971.0	3235.8	4231.7	5484.1	5873.0	16270.2	44063.1	45263.1	40692.1	31310.1
75°	2044.1	2022.0	2256.5	3186.2	5180.6	5820.7	9555.8	34077.0	35437.0	35172.1	26308.8
77.5°	1337.9	1373.8	1561.4	2251.0	4358.6	5776.5	6228.9	24176.4	25059.1	23522.6	15561.3
80°	943.4	940.7	1045.5	1536.6	3233.1	5550.3	5100.6	15238.5	15015.0	9244.1	4615.2
82.5°	540.7	579.3	700.7	1081.4	2162.7	4885.5	4692.4	7288.2	6653.8	2634.5	1558.6
85°	300.7	314.5	416.6	653.8	1263.4	3679.9	4096.5	3315.8	3128.2	1100.7	670.3
87.5°	96.5	104.8	173.8	331.1	573.8	1737.9	2320.0	1531.0	1412.4	397.2	270.4
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°	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4	11503.4
2.5°	11519.9	11553.0	11464.8	11379.3	11302.0	11194.4	11097.9	11017.8	10962.7	10954.4	10926.8
5°	11558.6	11561.3	11393.0	11166.8	10946.1	10703.4	10452.3	10273.0	10104.8	10011.0	9964.1
7.5°	11586.1	11561.3	11257.8	10891.0	10466.1	10024.7	9583.4	9230.2	8957.2	8849.6	8891.0
10°	11575.1	11497.8	11053.7	10466.1	9848.2	9188.9	8554.4	8057.9	7602.7	7368.2	7373.7
12.5°	11514.4	11387.5	10750.3	9988.9	9081.3	8198.6	7227.6	6557.2	6030.3	5718.6	5622.0
15°	11461.9	11241.3	10394.4	9340.6	8212.3	6951.7	5768.2	4940.7	4499.3	4253.7	4251.0
17.5°	11406.8	11100.6	10005.4	8653.7	7213.7	5591.7	4350.3	3718.6	3511.7	3536.5	3495.2
20°	11348.9	10935.1	9599.9	7889.6	5997.2	4171.0	3257.9	3001.4	3059.3	3172.4	3188.9
22.5°	11282.6	10758.6	9164.1	7048.3	4717.2	3139.3	2642.7	2604.1	2753.1	2929.6	2954.5
25°	11180.6	10537.8	8615.1	6168.2	3638.6	2529.6	2314.5	2342.0	2488.3	2637.2	2653.7
27.5°	11037.2	10264.7	8060.6	5070.3	2733.8	2171.0	2115.8	2151.7	2223.4	2314.5	2336.6
30°	10844.1	9955.8	7423.4	4121.3	2190.4	1991.7	1969.6	1989.0	2030.3	2068.9	2080.0
32.5°	10651.0	9657.8	6780.6	3155.8	1953.1	1873.1	1851.0	1851.0	1851.0	1856.6	1859.3
35°	10471.6	9376.5	6091.0	2457.9	1828.9	1779.3	1749.0	1715.9	1710.3	1691.0	1691.0
37.5°	10372.3	9119.9	5357.2	2057.9	1737.9	1702.1	1660.7	1605.5	1575.2	1577.9	1572.4
40°	10391.7	8951.6	4689.6	1831.7	1663.4	1624.8	1561.4	1498.0	1478.6	1478.6	1473.1
42.5°	10609.6	8896.4	4049.6	1713.1	1591.7	1547.6	1467.6	1409.6	1398.6	1395.9	1401.3
45°	11111.6	9031.7	3475.8	1635.8	1531.0	1464.8	1384.8	1332.4	1321.4	1321.4	1318.6
47.5°	12090.9	9470.3	3064.8	1586.2	1486.9	1401.3	1318.6	1266.2	1246.8	1241.4	1241.4
50°	13613.7	10422.0	2758.6	1542.0	1431.7	1343.5	1257.9	1197.2	1166.9	1164.2	1161.3
52.5°	15729.5	11906.1	2640.0	1508.9	1371.0	1282.7	1189.0	1131.0	1092.4	1084.1	1078.6
55°	18204.0	13977.8	2802.7	1484.1	1307.6	1213.8	1117.3	1056.6	1020.7	1004.1	1001.4
57.5°	21070.2	16466.1	3420.7	1451.1	1249.7	1139.3	1045.5	984.9	946.2	926.9	921.4
60°	23643.9	19023.3	4499.3	1431.7	1200.0	1059.3	962.8	907.6	871.7	852.4	849.6
62.5°	26471.5	21461.9	5787.5	1484.1	1177.9	982.0	885.5	835.9	805.5	786.2	786.2
65°	29492.2	23903.3	6639.9	1660.7	1211.0	921.4	802.7	761.4	733.7	720.0	717.2
67.5°	31528.0	24747.4	5470.3	1842.7	1293.8	855.2	722.8	689.7	673.1	659.3	659.3
69°	31307.3	23679.8	4035.8	1889.6	1318.6	822.1	678.6	653.8	631.7	626.2	620.7
70°	30609.4	22463.3	3382.0	1859.3	1299.3	791.7	651.1	620.7	601.3	595.9	593.1
72.5°	27263.3	19481.2	2518.6	1616.5	1106.2	686.9	576.5	549.0	532.4	524.1	524.1
75°	22650.9	15922.6	1966.9	1285.5	866.2	579.3	493.8	471.8	457.9	452.4	449.7
77.5°	12695.1	8891.0	1412.4	1006.9	656.5	468.9	413.8	394.5	380.7	375.1	375.1
80°	3536.5	2540.7	830.4	664.8	446.9	355.9	328.3	314.5	295.2	281.4	289.6
82.5°	1332.4	1100.7	474.5	400.0	284.2	237.2	228.9	217.9	209.7	190.3	190.3
85°	648.2	535.2	303.4	212.4	157.2	124.1	118.6	113.1	107.6	93.8	96.5
87.5°	223.5	237.2	132.4	77.2	46.9	30.4	24.8	13.8	13.8	13.8	13.8
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)