

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: P651122

Luminaire Tested: **GALN-SA9C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651122
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-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 53503.6 lumens
Efficiency: N/A
Efficacy: 111.2 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

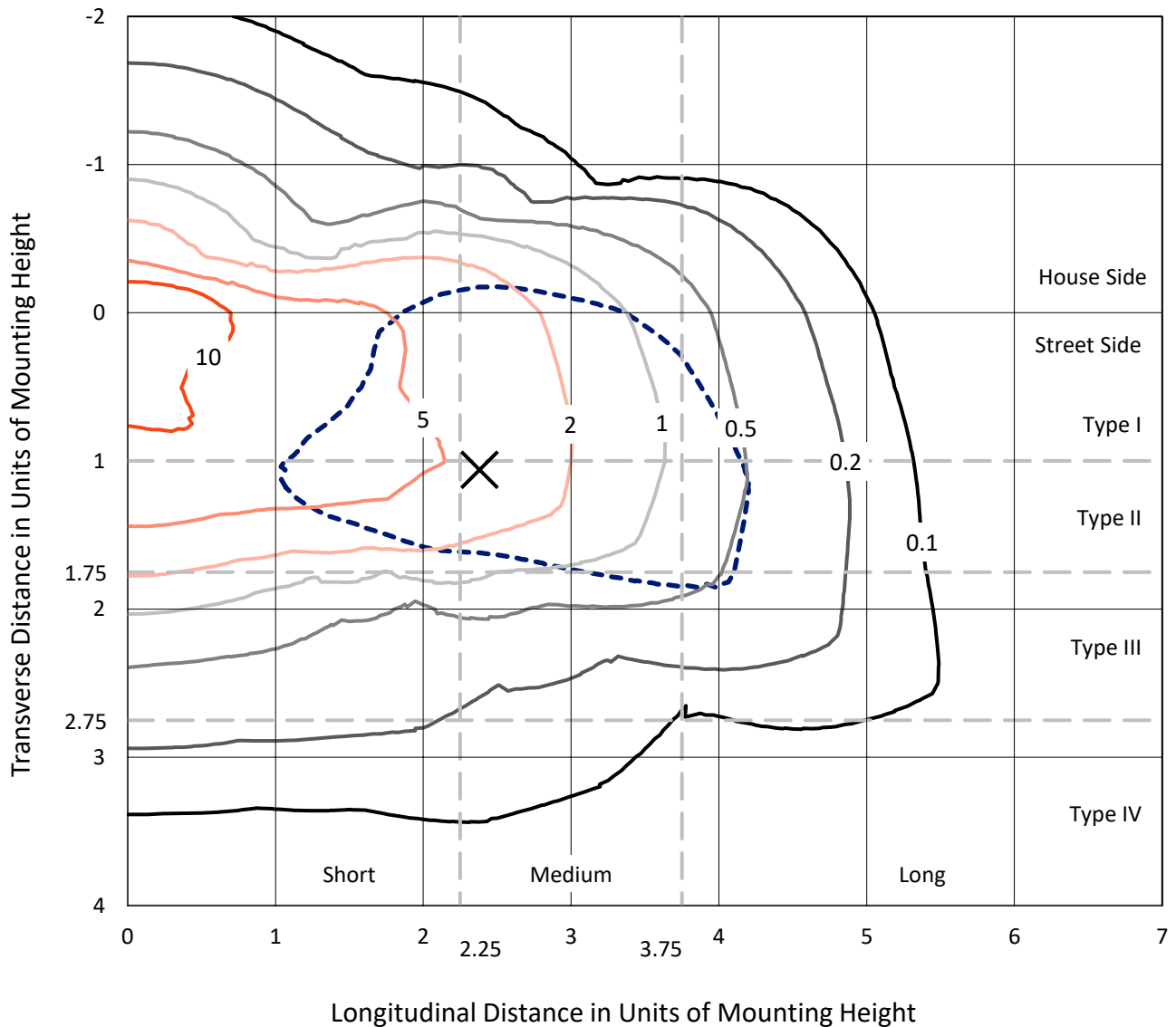
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

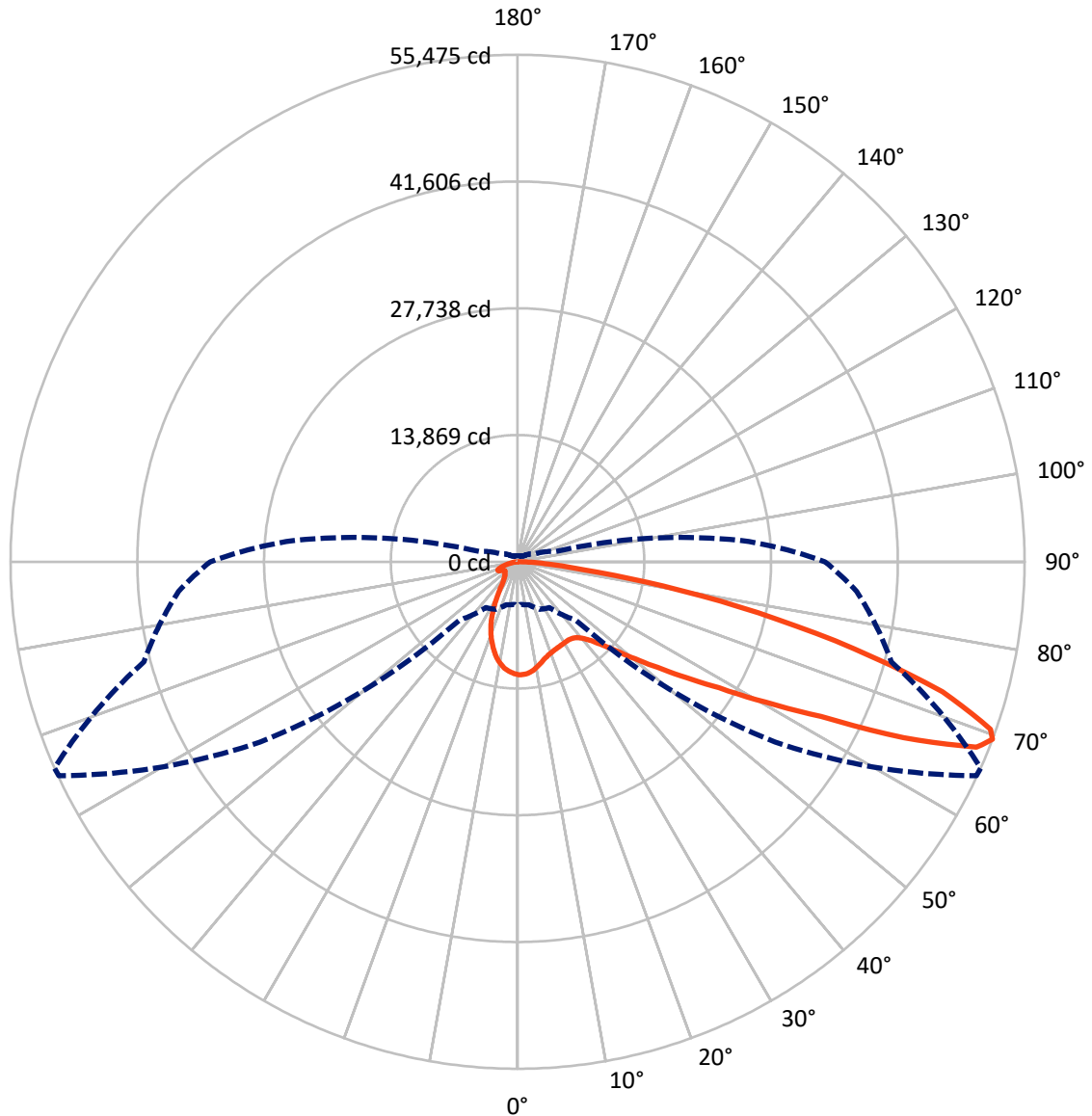
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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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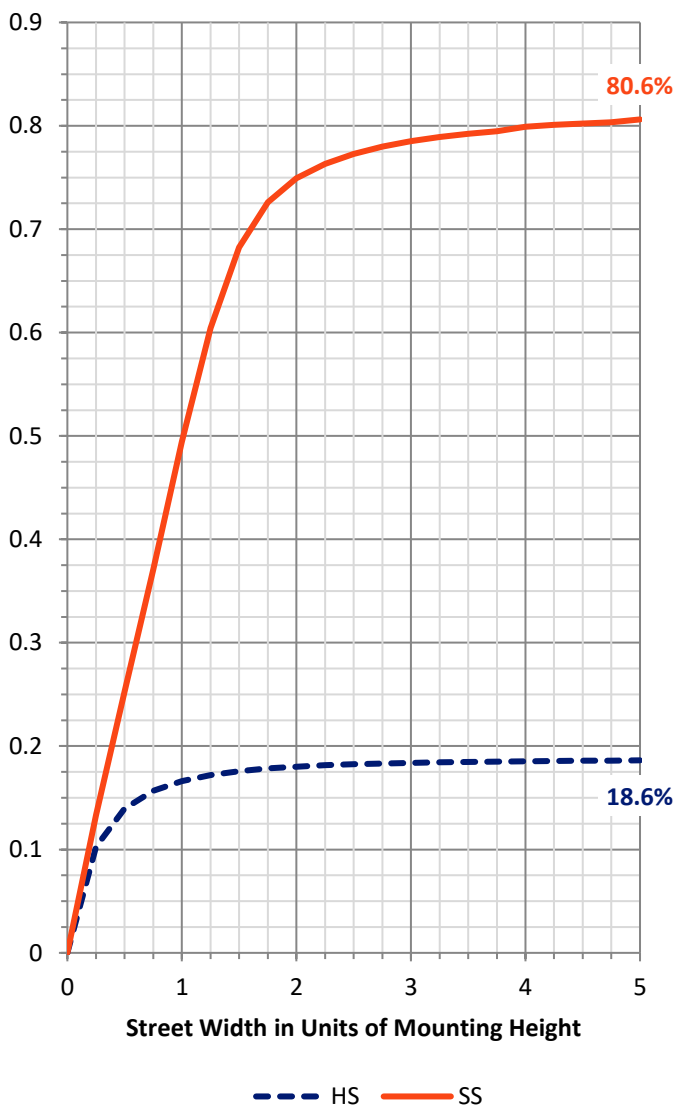
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10062.0	0.0	10062.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	43441.6	0.0	43441.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	53503.6	0.0	53503.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.9	2.0
10°-20°	2544.9	4.8
20°-30°	3464.6	6.5
30°-40°	4655.6	8.7
40°-50°	6951.6	13.0
50°-60°	11057.7	20.7
60°-70°	13600.4	25.4
70°-80°	8849.0	16.5
80°-90°	1306.7	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°	53503.6	100.0
0°-180°	53503.6	100.0

Coefficient of Utilization

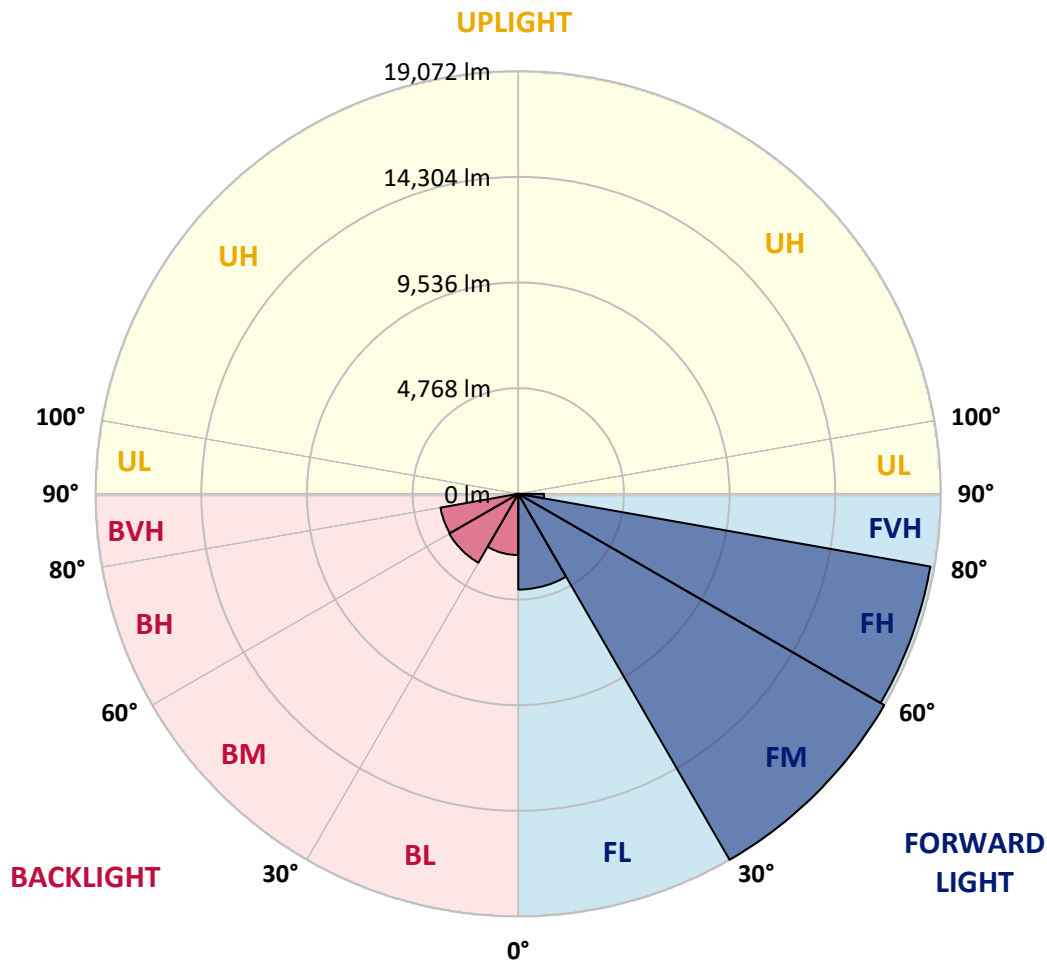


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4320.4	8.1			
FM (30°-60°)	19072.4	35.6			
FH (60°-80°)	18887.0	35.3			G5
FVH (80°-90°)	1161.8	2.2			G5
BL (0°-30°)	2762.1	5.2	B4/5000		
BM (30°-60°)	3592.6	6.7	B3/5000		
BH (60°-80°)	3562.4	6.7	B4/5000		G4/5000
BVH (80°-90°)	145.0	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°	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5
2.5°	11922.9	11970.3	12023.6	12082.9	12195.4	12257.7	12302.1	12352.5	12358.4	12385.1	12364.4
5°	11042.9	11099.2	11179.2	11291.8	11460.6	11724.4	11996.9	12219.1	12245.8	12370.3	12405.8
7.5°	10308.1	10340.7	10405.9	10586.6	10826.6	11120.0	11517.0	11967.3	12032.5	12328.8	12432.5
10°	9709.6	9742.1	9819.2	10005.9	10242.9	10610.3	11045.9	11638.4	11691.8	12201.4	12438.4
12.5°	9262.2	9291.8	9374.7	9558.5	9831.0	10174.8	10654.7	11282.9	11359.9	12032.5	12382.1
15°	8921.4	8977.7	9045.9	9197.0	9484.4	9816.2	10281.4	10957.0	11019.2	11854.7	12343.6
17.5°	8776.3	8802.9	8850.3	8989.5	9200.0	9525.8	9994.0	10702.1	10776.2	11730.3	12334.7
20°	8782.1	8808.8	8817.7	8894.8	9045.9	9327.4	9789.6	10500.6	10589.5	11620.7	12349.5
22.5°	8983.6	8986.6	8954.0	8927.3	8986.6	9220.6	9644.3	10349.5	10453.3	11573.3	12361.4
25°	9294.7	9348.1	9300.7	9176.2	9066.6	9179.2	9588.1	10266.6	10364.4	11505.1	12346.6
27.5°	9798.4	9807.3	9768.8	9599.9	9315.5	9232.5	9564.4	10204.4	10287.4	11454.8	12272.5
30°	10474.0	10447.3	10411.7	10225.1	9777.7	9436.9	9614.7	10148.1	10234.0	11380.7	12183.7
32.5°	11158.5	11241.4	11208.8	10989.5	10408.8	9834.0	9777.7	10142.1	10213.3	11324.4	12085.8
35°	11884.3	11922.9	12076.9	11964.3	11368.8	10476.9	10082.9	10234.0	10290.3	11327.3	12017.7
37.5°	12453.3	12557.0	12918.4	13016.2	12456.2	11327.3	10577.7	10494.8	10518.5	11472.5	12044.4
40°	13140.6	13318.4	13783.6	14183.6	13816.2	12432.5	11419.2	10977.7	11007.3	11822.1	12219.1
42.5°	14011.7	14136.2	14761.4	15303.6	15244.3	13893.2	12438.4	11768.8	11783.6	12518.5	12708.0
45°	15031.0	15208.8	15911.0	16725.8	16865.1	15546.6	13911.0	12965.9	12957.0	13599.9	13620.7
47.5°	16334.7	16444.3	17140.6	18029.5	18592.5	17623.6	15697.7	14684.4	14589.5	15176.2	15007.3
50°	17534.7	17706.5	18234.0	19205.7	20607.3	20056.2	18047.3	16912.4	16690.2	17238.4	16954.0
52.5°	18038.4	18219.1	18663.6	19869.5	22334.7	23202.8	21031.0	19570.2	19199.9	19620.6	19516.9
55°	17164.3	17398.4	17813.2	19279.8	23093.2	26832.4	25054.7	22642.8	22373.2	22192.4	22222.1
57.5°	14814.7	15036.9	15596.9	17214.7	22186.5	29466.5	30799.8	26592.4	26014.7	25182.1	25324.3
60°	11277.0	11416.2	11706.6	13499.1	19499.1	30150.9	37324.2	31584.9	31217.6	28159.8	28260.5
62.5°	8008.8	8165.9	8367.4	9262.2	14275.5	28222.0	42432.2	38556.7	37244.2	31244.2	31146.4
65°	6503.6	6397.0	6639.9	7057.8	8376.2	21872.4	43581.9	48233.7	46426.3	35306.4	33949.4
67.5°	5348.1	5235.5	5475.5	6219.2	6370.3	12696.2	39439.7	54515.1	54153.7	39724.1	36796.8
69°	4734.7	4675.5	4885.9	5733.3	6115.5	9016.2	34358.3	55389.2	55475.1	42328.5	37235.3
70°	4266.6	4290.4	4494.8	5487.4	5999.9	7434.0	29365.7	54183.3	54912.2	43629.3	36761.2
72.5°	3140.7	3191.1	3475.5	4545.2	5890.4	6308.1	17475.4	47327.0	48615.9	43706.3	33629.4
75°	2195.5	2171.8	2423.7	3422.2	5564.4	6251.8	10263.6	36601.2	38062.0	37777.5	28257.6
77.5°	1437.0	1475.5	1677.0	2417.8	4681.4	6204.4	6690.3	25967.2	26915.4	25265.0	16713.9
80°	1013.3	1010.4	1123.0	1650.4	3472.6	5961.4	5478.4	16367.3	16127.3	9928.8	4957.0
82.5°	580.7	622.3	752.6	1161.5	2322.9	5247.3	5039.9	7828.1	7146.6	2829.6	1674.1
85°	322.9	337.7	447.4	702.2	1357.0	3952.5	4399.9	3561.5	3360.0	1182.2	720.0
87.5°	103.7	112.6	186.7	355.6	616.3	1866.7	2491.8	1644.4	1517.0	426.6	290.4
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°	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5	12355.5
2.5°	12373.2	12408.8	12314.0	12222.2	12139.2	12023.6	11919.9	11834.0	11774.8	11765.8	11736.2
5°	12414.8	12417.7	12237.0	11994.0	11756.9	11496.2	11226.6	11034.0	10853.3	10752.5	10702.1
7.5°	12444.4	12417.7	12091.7	11697.7	11241.4	10767.3	10293.3	9914.0	9620.7	9505.2	9549.6
10°	12432.5	12349.5	11872.5	11241.4	10577.7	9869.6	9188.1	8654.7	8165.9	7914.0	7919.9
12.5°	12367.3	12231.0	11546.6	10728.8	9754.0	8805.9	7762.9	7042.9	6477.0	6142.2	6038.5
15°	12311.0	12074.0	11164.4	10032.5	8820.7	7466.7	6195.5	5306.6	4832.6	4568.8	4565.9
17.5°	12251.8	11922.9	10746.6	9294.7	7748.0	6005.9	4672.6	3994.1	3771.8	3798.5	3754.1
20°	12189.5	11745.1	10311.0	8474.0	6441.5	4480.0	3499.2	3223.7	3285.9	3407.4	3425.1
22.5°	12118.4	11555.5	9842.9	7570.3	5066.6	3371.8	2838.5	2797.0	2957.0	3146.6	3173.3
25°	12008.8	11318.4	9253.3	6625.1	3908.1	2717.0	2485.9	2515.5	2672.6	2832.6	2850.3
27.5°	11854.7	11025.1	8657.7	5445.9	2936.3	2331.8	2272.6	2311.1	2388.1	2485.9	2509.6
30°	11647.3	10693.2	7973.3	4426.6	2352.6	2139.3	2115.5	2136.3	2180.7	2222.2	2234.0
32.5°	11440.0	10373.2	7282.9	3389.6	2097.8	2011.8	1988.1	1988.1	1988.1	1994.1	1997.0
35°	11247.3	10071.1	6542.1	2640.0	1964.4	1911.1	1878.5	1843.0	1837.0	1816.3	1816.3
37.5°	11140.6	9795.5	5754.0	2210.3	1866.7	1828.2	1783.7	1724.5	1691.8	1694.8	1688.9
40°	11161.4	9614.7	5037.0	1967.4	1786.6	1745.2	1677.0	1608.9	1588.1	1588.1	1582.2
42.5°	11395.5	9555.4	4349.6	1840.0	1709.6	1662.2	1576.3	1514.1	1502.2	1499.3	1505.1
45°	11934.7	9700.7	3733.3	1757.0	1644.4	1573.3	1487.4	1431.1	1419.3	1419.3	1416.2
47.5°	12986.6	10171.8	3291.8	1703.7	1597.1	1505.1	1416.2	1360.0	1339.2	1333.3	1333.3
50°	14622.1	11194.0	2962.9	1656.3	1537.8	1443.0	1351.1	1285.9	1253.3	1250.4	1247.4
52.5°	16894.7	12788.1	2835.5	1620.7	1472.6	1377.7	1277.1	1214.8	1173.4	1164.4	1158.5
55°	19552.4	15013.2	3010.4	1594.0	1404.5	1303.7	1200.0	1134.8	1096.3	1078.5	1075.6
57.5°	22631.0	17685.8	3674.1	1558.5	1342.2	1223.7	1123.0	1057.8	1016.3	995.6	989.6
60°	25395.3	20432.4	4832.6	1537.8	1288.9	1137.8	1034.1	974.8	936.3	915.5	912.6
62.5°	28432.4	23051.6	6216.3	1594.0	1265.2	1054.8	951.1	897.8	865.1	844.4	844.4
65°	31676.8	25673.9	7131.8	1783.7	1300.7	989.6	862.2	817.8	788.1	773.3	770.4
67.5°	33863.5	26580.6	5875.5	1979.2	1389.6	918.5	776.3	740.8	722.9	708.1	708.1
69°	33626.4	25433.9	4334.8	2029.6	1416.2	883.0	728.9	702.2	678.5	672.5	666.7
70°	32876.8	24127.2	3632.5	1997.0	1395.6	850.3	699.3	666.7	645.9	640.0	637.1
72.5°	29282.8	20924.2	2705.2	1736.2	1188.2	737.8	619.2	589.6	571.9	563.0	563.0
75°	24328.7	17102.1	2112.6	1380.8	930.4	622.3	530.3	506.7	491.8	485.9	483.0
77.5°	13635.5	9549.6	1517.0	1081.4	705.2	503.7	444.5	423.7	408.9	402.9	402.9
80°	3798.5	2728.9	891.9	714.1	480.0	382.2	352.6	337.7	317.1	302.3	311.1
82.5°	1431.1	1182.2	509.6	429.7	305.2	254.8	245.9	234.1	225.2	204.4	204.4
85°	696.3	574.8	325.9	228.2	168.9	133.3	127.4	121.4	115.6	100.8	103.7
87.5°	240.0	254.8	142.2	82.9	50.4	32.6	26.7	14.8	14.8	14.8	14.8
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)