

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: P383559

Luminaire Tested: **GLEON-SA8C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383559
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-SA8C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 52809.4 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

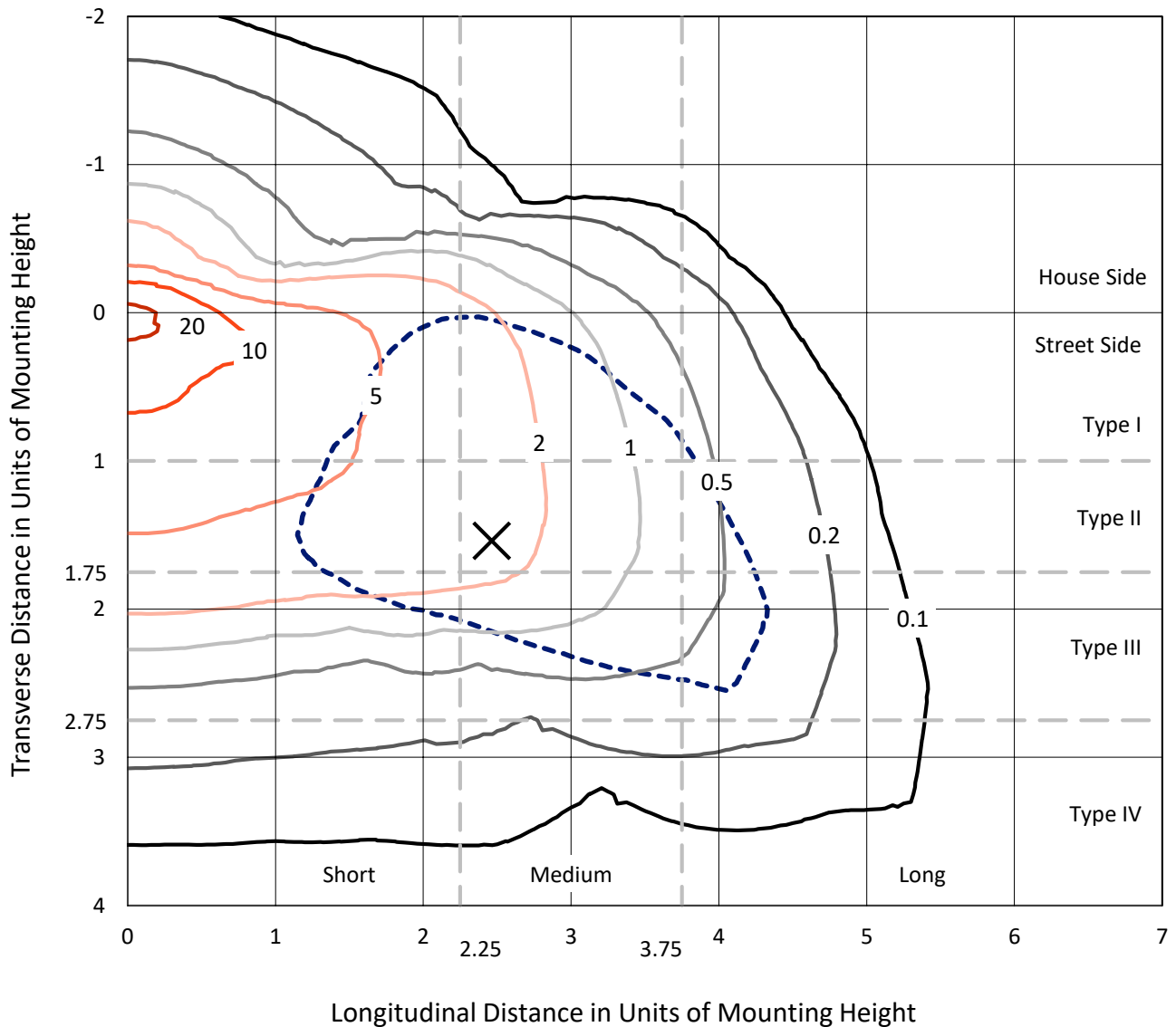
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

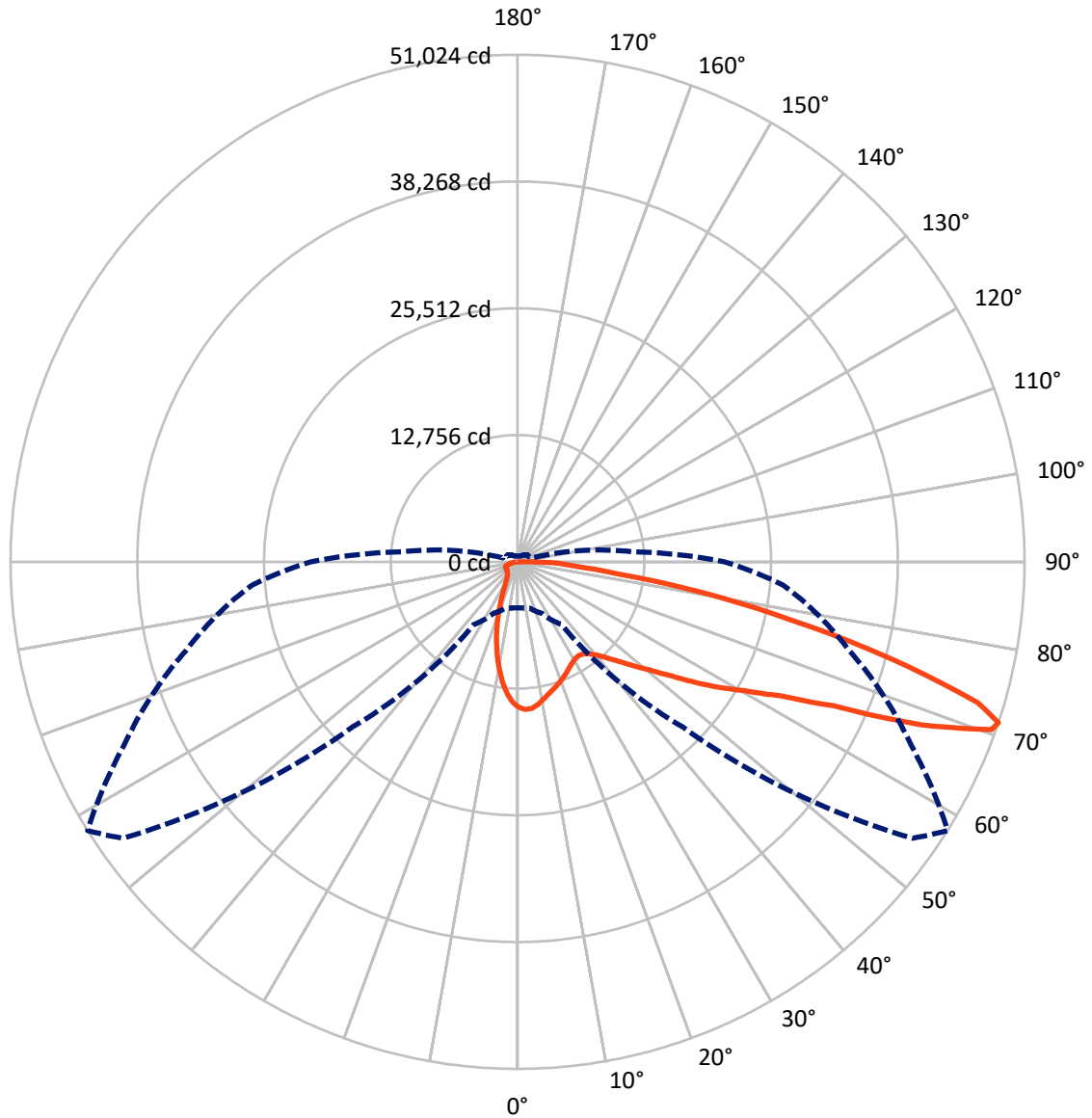
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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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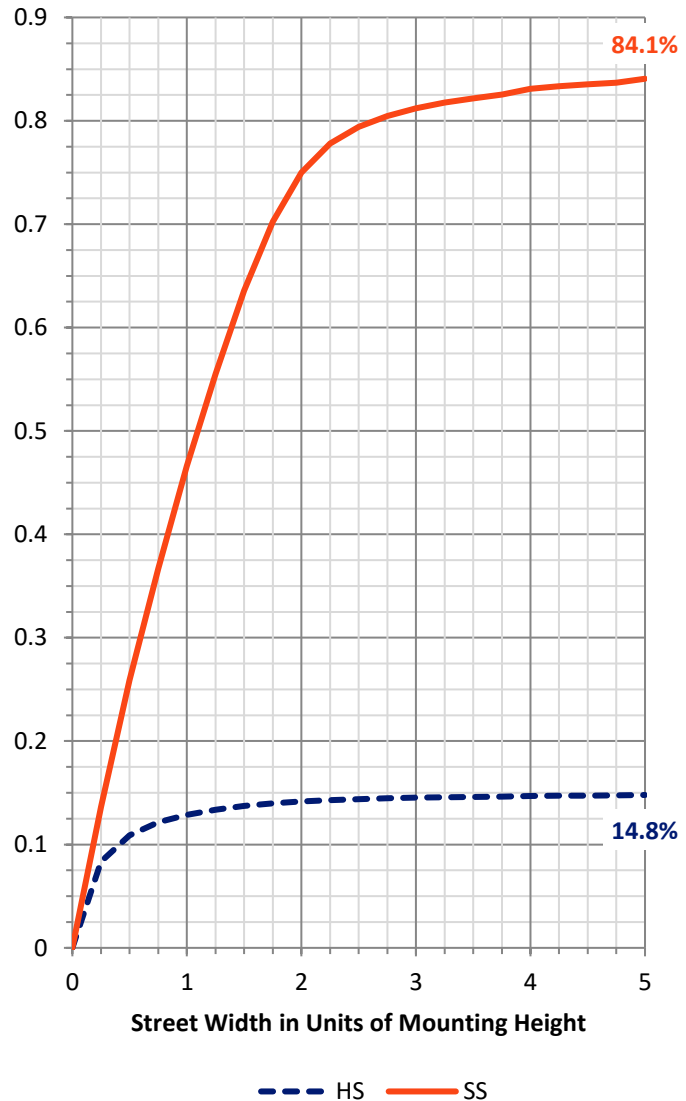
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7895.4	0.0	7895.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	44914.0	0.0	44914.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	52809.4	0.0	52809.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1262.3	2.4
10°-20°	2806.8	5.3
20°-30°	3567.2	6.8
30°-40°	4543.9	8.6
40°-50°	6443.5	12.2
50°-60°	9971.5	18.9
60°-70°	13574.9	25.7
70°-80°	9056.0	17.1
80°-90°	1583.3	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°	52809.4	100.0
0°-180°	52809.4	100.0

Coefficient of Utilization

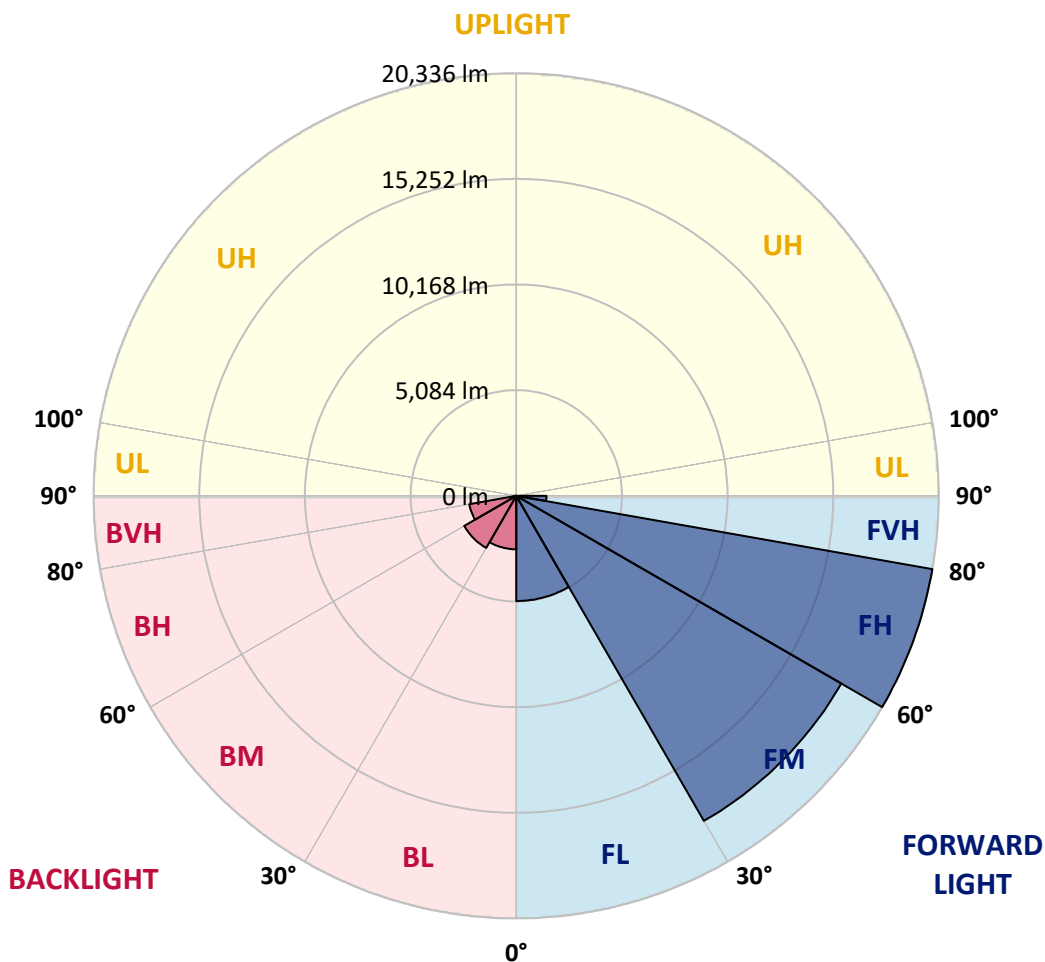


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5062.6	9.6			
FM (30°-60°)	18063.4	34.2			
FH (60°-80°)	20336.3	38.5			G5
FVH (80°-90°)	1451.8	2.7			G5
BL (0°-30°)	2573.7	4.9	B4/5000		
BM (30°-60°)	2895.5	5.5	B3/5000		
BH (60°-80°)	2294.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	131.5	0.2			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°	58°	65°	75°	85°
0°	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7
2.5°	15019.9	14999.7	15007.0	14992.3	14957.3	14922.4	14870.9	14880.1	14808.3	14701.7	14569.2
5°	14736.6	14729.3	14784.4	14815.7	14841.4	14821.2	14806.5	14824.9	14720.0	14572.9	14342.9
7.5°	14142.4	14061.5	14131.4	14236.3	14335.6	14411.0	14510.3	14523.2	14457.0	14302.4	14000.8
10°	13298.0	13220.8	13323.8	13487.5	13686.2	13866.5	14067.0	14103.8	14116.7	13976.8	13610.8
12.5°	12422.5	12363.6	12466.6	12696.5	13025.8	13303.6	13623.7	13678.8	13792.9	13699.1	13250.2
15°	11638.8	11616.8	11741.8	11968.1	12347.0	12772.0	13233.7	13334.8	13528.0	13496.7	12968.8
17.5°	10961.9	10956.3	11052.0	11289.3	11708.7	12245.8	12845.6	13016.6	13303.6	13340.4	12737.1
20°	10457.8	10446.7	10513.0	10687.7	11120.1	11728.9	12426.1	12661.6	13075.5	13204.2	12497.8
22.5°	10187.4	10185.5	10187.4	10270.2	10623.4	11189.9	12017.7	12304.7	12852.9	13095.7	12233.0
25°	10141.4	10135.9	10095.5	10086.2	10286.7	10739.3	11613.0	11929.5	12641.4	13020.3	11980.9
27.5°	10261.0	10268.4	10215.0	10128.5	10169.0	10443.1	11261.7	11600.2	12472.1	13005.6	11806.2
30°	10509.3	10505.6	10459.7	10369.5	10290.4	10332.7	11011.5	11350.0	12358.1	13070.0	11686.6
32.5°	10783.4	10803.6	10794.5	10744.7	10627.1	10457.8	10936.1	11267.3	12324.9	13224.5	11635.1
35°	11112.7	11134.8	11201.0	11239.6	11101.6	10829.4	11098.0	11384.9	12420.6	13515.2	11717.9
37.5°	11425.4	11482.4	11668.2	11832.0	11714.2	11410.7	11528.5	11732.7	12716.7	13973.2	11940.5
40°	11785.9	11835.6	12139.2	12486.8	12468.4	12153.9	12221.9	12358.1	13239.2	14629.9	12343.4
42.5°	12141.0	12240.3	12679.9	13173.0	13314.6	13036.8	13145.3	13217.2	13975.0	15500.0	13046.0
45°	12613.8	12720.5	13331.2	13925.3	14256.5	14100.1	14273.0	14300.7	14900.3	16684.7	14067.0
47.5°	13329.3	13450.7	14162.7	14786.3	15292.1	15308.7	15593.8	15582.7	16055.6	18040.4	15352.8
50°	14444.1	14618.9	15202.0	15785.2	16399.5	16741.7	17122.5	17069.1	17440.7	19484.4	16833.7
52.5°	15904.7	15985.6	16418.0	16848.4	17611.8	18378.9	18925.2	18877.4	19011.7	20969.0	18515.1
55°	17418.6	17479.4	17657.8	17893.3	18919.7	20170.6	21325.8	21250.5	20910.1	22510.5	20176.1
57.5°	18779.9	18903.2	19026.4	19123.9	20236.8	22043.3	23781.7	23787.2	22970.4	24173.5	21892.4
60°	18991.5	19100.0	19914.9	20683.8	22490.3	24541.3	26410.3	26355.2	25102.4	25978.1	23805.5
62.5°	16787.7	17032.3	18393.6	20439.2	24661.0	29110.8	29763.9	29695.8	27652.1	28202.0	26033.2
65°	12030.7	12308.4	13951.1	17025.0	23608.8	34145.6	35816.0	34899.9	31128.8	30937.4	28641.7
67.5°	6940.6	7006.8	7718.7	10187.4	17976.1	34408.7	45048.6	43766.4	36527.8	34040.8	29918.3
70°	5132.4	5130.5	5299.8	6269.1	9727.5	28082.5	49439.7	50589.4	42212.1	35061.8	28113.7
71°	4641.2	4646.7	4836.1	5706.3	7704.0	23505.7	48507.0	51023.5	43709.4	34557.7	26807.7
72.5°	3969.7	3988.1	4251.2	5117.6	6480.7	16210.0	44489.4	48418.7	44419.5	33314.2	24764.0
75°	3011.3	3053.6	3417.8	4313.7	5923.3	8220.9	32652.0	38663.6	39460.1	29395.9	18401.0
77.5°	2148.6	2196.4	2608.5	3627.5	5630.8	6195.6	21866.7	28202.0	29039.0	18838.8	8300.0
80°	1357.5	1414.6	1725.5	2886.2	5290.5	5882.9	13741.4	18956.5	15834.8	6028.2	2111.8
82.5°	796.6	840.6	1070.6	1885.5	4321.1	5665.8	8084.8	10507.5	6162.5	1821.2	960.2
85°	461.8	482.0	667.7	1201.2	3138.3	5347.5	5939.9	5873.7	2674.7	890.4	454.4
87.5°	215.2	239.1	395.5	627.3	1742.1	3875.9	4694.5	4056.2	1662.9	417.6	213.4
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°	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7	14631.7
2.5°	14504.8	14473.5	14342.9	14227.1	14105.6	13947.4	13772.7	13750.6	13643.9	13664.1	13627.3
5°	14217.8	14138.8	13824.2	13539.0	13202.5	12900.7	12573.3	12422.5	12205.4	12190.7	12135.5
7.5°	13807.6	13660.5	13173.0	12632.2	12091.3	11576.2	11066.7	10731.9	10389.7	10244.4	10231.6
10°	13345.9	13095.7	12378.3	11578.1	10798.1	10045.7	9317.3	8778.3	8292.6	8062.7	8053.5
12.5°	12908.1	12538.4	11554.2	10465.2	9398.2	8423.2	7424.4	6716.2	6107.3	5903.1	5816.7
15°	12536.5	12015.9	10752.1	9359.6	8064.6	6710.7	5573.8	4828.8	4265.9	4071.0	4034.2
17.5°	12176.0	11506.4	9929.8	8243.0	6677.5	5189.4	4050.6	3496.9	3197.2	3118.0	3116.2
20°	11817.2	10982.1	9070.8	7100.6	5336.6	3881.5	3114.3	2866.0	2764.8	2755.6	2740.9
22.5°	11410.7	10426.5	8167.6	5954.6	4164.8	3051.8	2647.1	2547.8	2534.9	2568.0	2568.0
25°	11029.9	9874.7	7251.4	4832.5	3239.5	2545.9	2363.8	2343.6	2378.5	2437.4	2442.9
27.5°	10674.9	9343.0	6357.4	3835.5	2595.6	2242.4	2167.0	2190.9	2253.4	2321.5	2323.4
30°	10382.4	8840.9	5489.2	3022.4	2192.8	2016.1	2003.3	2051.1	2119.2	2172.5	2185.4
32.5°	10156.1	8412.2	4650.4	2430.0	1929.7	1846.9	1858.0	1898.4	1940.7	1970.1	1990.3
35°	10051.3	8044.3	3875.9	2049.2	1762.3	1716.3	1731.0	1753.1	1771.5	1793.6	1810.1
37.5°	10069.7	7759.2	3184.2	1812.0	1650.1	1626.2	1626.2	1626.2	1626.2	1637.2	1639.1
40°	10240.8	7595.5	2621.4	1661.1	1574.7	1548.9	1528.7	1510.2	1495.5	1502.9	1499.2
42.5°	10678.5	7580.7	2209.3	1565.5	1514.0	1471.7	1431.1	1405.4	1387.0	1394.3	1398.1
45°	11421.7	7764.7	1931.6	1497.4	1456.9	1392.6	1341.1	1313.4	1300.5	1324.5	1328.1
47.5°	12383.8	8165.8	1762.3	1447.7	1403.6	1319.0	1263.7	1238.0	1241.7	1276.7	1285.8
50°	13623.7	8816.9	1681.4	1416.4	1366.8	1256.4	1199.4	1177.3	1188.4	1238.0	1249.0
52.5°	14985.0	9755.1	1690.6	1407.3	1342.8	1210.5	1149.7	1124.0	1142.4	1188.4	1197.5
55°	16555.9	10882.7	1843.3	1420.1	1307.9	1181.0	1109.3	1065.1	1079.8	1122.1	1129.5
57.5°	18301.6	12174.1	2150.4	1416.4	1263.7	1153.3	1066.9	1000.7	1011.8	1037.5	1044.8
60°	20119.1	13734.1	2626.9	1427.5	1243.5	1120.3	1009.9	927.2	923.4	945.5	949.2
62.5°	22300.8	15538.7	3171.4	1434.9	1256.4	1078.0	934.5	853.6	842.5	848.0	851.7
65°	24548.7	16844.7	2967.2	1405.4	1296.9	1043.1	868.3	781.8	761.5	757.9	759.8
67.5°	24618.7	15444.8	2080.5	1346.6	1313.4	1024.6	818.6	721.1	687.9	675.1	673.2
70°	22078.2	12547.6	1620.6	1284.0	1247.2	995.2	772.6	671.5	621.8	601.5	599.7
71°	20838.3	11550.5	1536.0	1252.7	1197.5	965.7	752.4	649.4	597.9	575.8	572.1
72.5°	18893.9	10354.8	1433.0	1203.1	1101.9	890.4	713.8	618.1	564.7	539.0	533.5
75°	13559.3	6771.3	1230.7	1072.5	912.5	710.0	625.4	555.6	509.6	478.3	474.6
77.5°	5224.3	2695.0	930.8	892.1	699.0	555.6	515.1	480.1	447.0	415.7	413.9
80°	1615.1	1204.9	678.8	671.5	505.8	413.9	401.0	391.8	379.0	345.8	338.4
82.5°	862.7	691.7	467.3	434.1	331.1	275.9	290.6	294.4	296.1	261.2	257.6
85°	412.0	366.1	263.1	246.5	193.1	154.5	178.4	193.1	195.0	160.0	149.0
87.5°	196.8	191.3	123.2	93.8	71.7	51.5	62.5	77.2	84.6	60.7	53.4
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)