

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: P647166

Luminaire Tested: **GALN-SA9C-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 49463.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

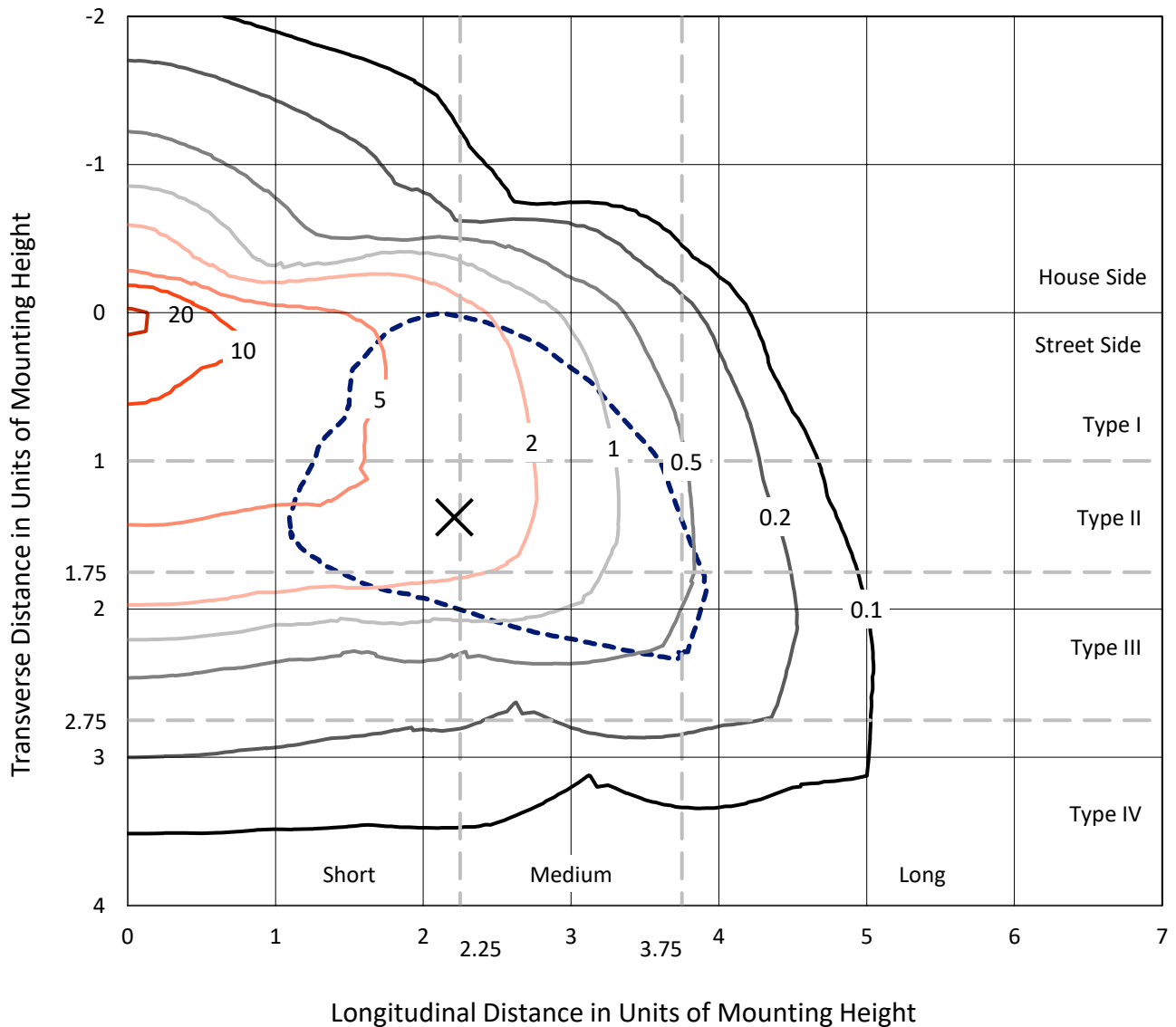
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

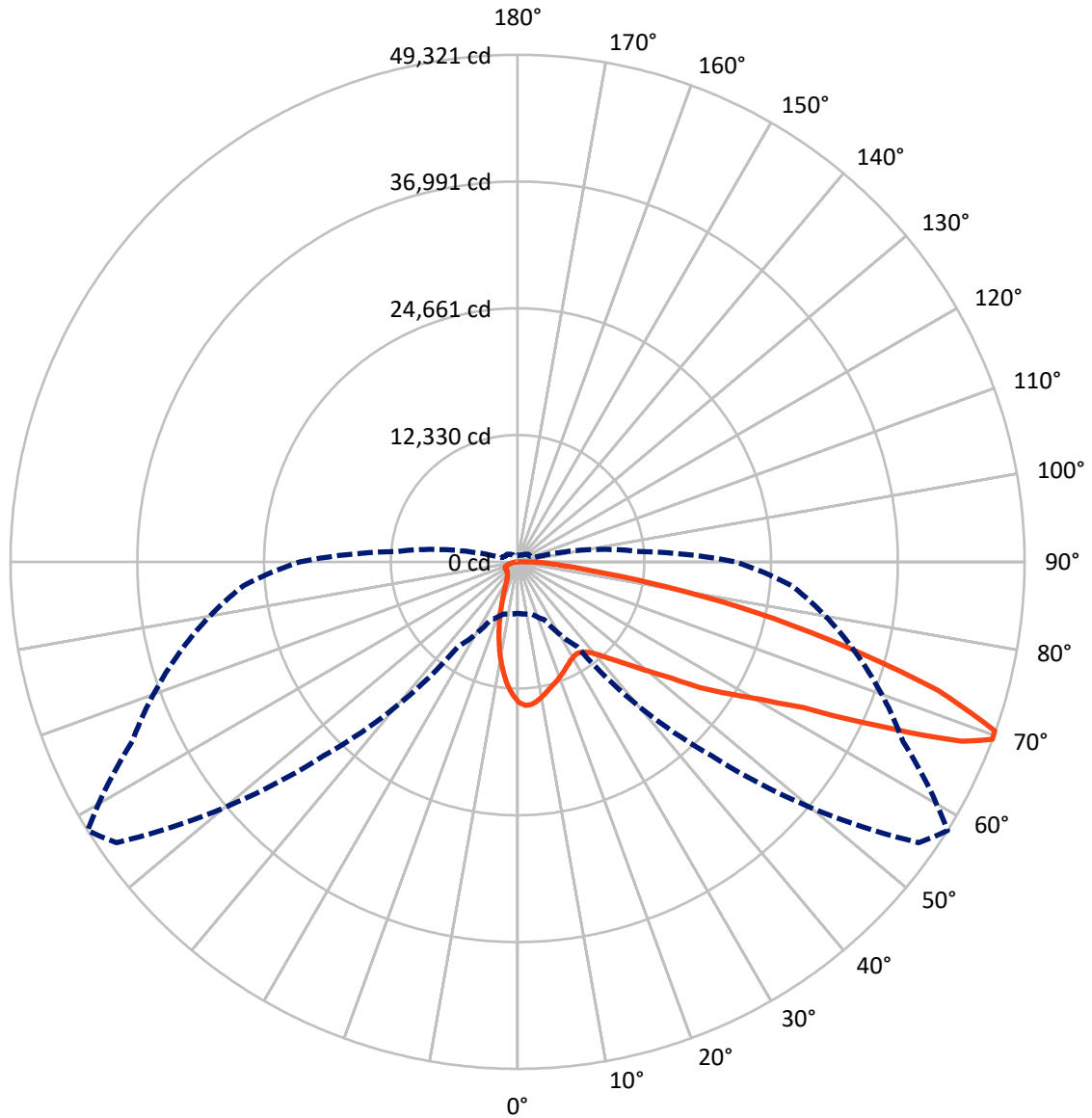
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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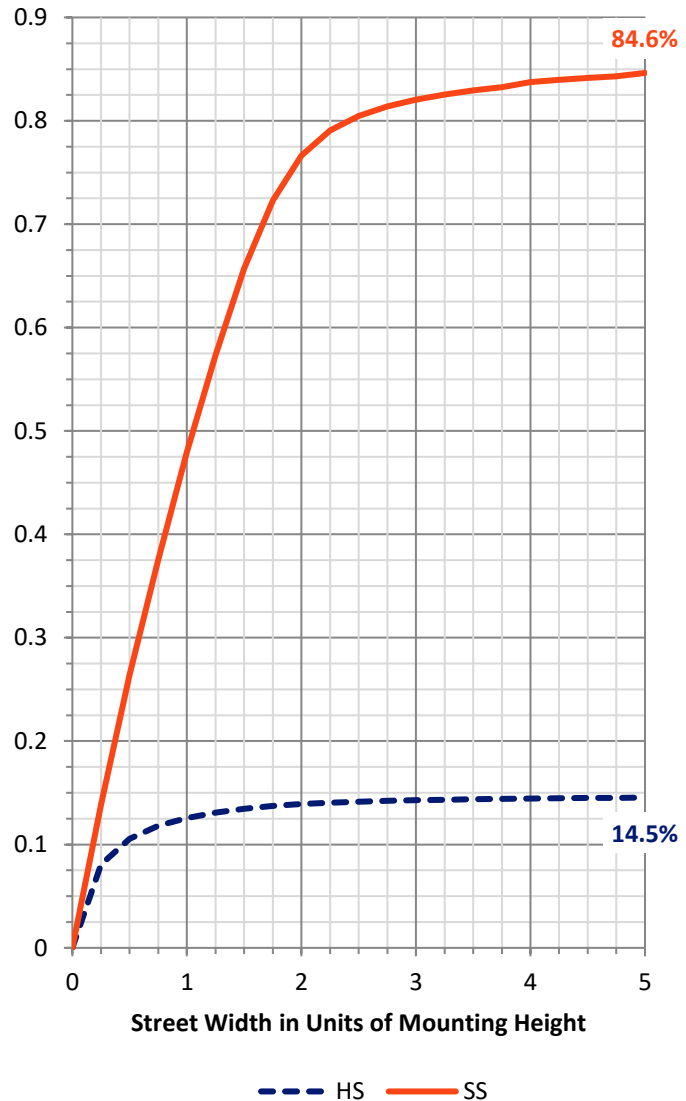
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7248.9	0.0	7248.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	42214.8	0.0	42214.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	49463.7	0.0	49463.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.8	2.3
10°-20°	2549.0	5.2
20°-30°	3293.3	6.7
30°-40°	4277.3	8.6
40°-50°	6218.6	12.6
50°-60°	9922.9	20.1
60°-70°	13255.8	26.8
70°-80°	7641.4	15.4
80°-90°	1144.5	2.3
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°	49463.7	100.0
0°-180°	49463.7	100.0

Coefficient of Utilization



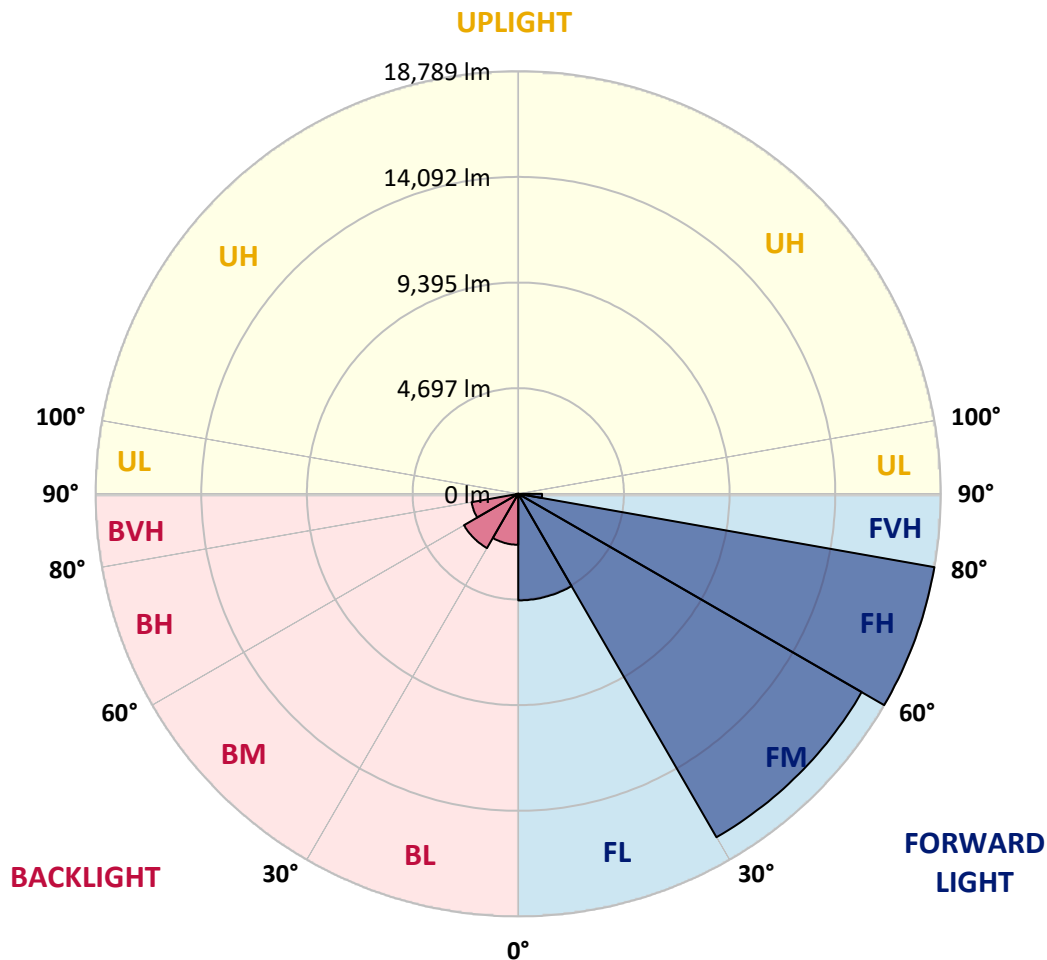
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4737.4	9.6			
FM (30°-60°)	17631.2	35.6			
FH (60°-80°)	18789.3	38.0			G5
FVH (80°-90°)	1056.8	2.1			G5
BL (0°-30°)	2265.7	4.6	B3/2500		
BM (30°-60°)	2787.7	5.6	B3/5000		
BH (60°-80°)	2107.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	87.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8
2.5°	14176.4	14215.1	14204.0	14190.2	14168.2	14107.5	14008.2	13991.6	13928.2	13793.0	13624.7
5°	13958.5	13991.6	13994.4	14013.7	14041.3	14030.3	13958.5	13950.2	13856.4	13674.4	13393.0
7.5°	13210.9	13255.1	13351.6	13459.2	13555.8	13646.8	13668.8	13682.7	13624.7	13415.1	13039.9
10°	12369.6	12413.7	12457.8	12617.8	12855.1	13081.3	13268.9	13293.7	13307.5	13114.4	12656.5
12.5°	11437.1	11528.2	11622.0	11859.2	12176.4	12532.3	12863.4	12915.7	13009.5	12863.4	12325.4
15°	10645.4	10739.2	10874.4	11086.8	11470.2	11983.3	12449.5	12535.0	12719.9	12645.4	12016.5
17.5°	10096.5	10129.6	10223.4	10466.1	10879.9	11420.6	12044.0	12215.1	12510.2	12491.0	11751.7
20°	9663.4	9704.7	9762.7	9911.7	10342.0	10913.0	11666.2	11886.8	12286.8	12353.0	11489.6
22.5°	9481.3	9511.6	9503.3	9583.4	9875.8	10449.6	11282.6	11544.7	12088.2	12259.2	11246.8
25°	9492.3	9519.9	9478.5	9459.3	9633.0	10041.3	10882.7	11216.5	11928.2	12195.8	11026.1
27.5°	9677.2	9696.5	9619.2	9542.0	9555.8	9787.5	10551.6	10921.3	11793.0	12223.3	10841.3
30°	9925.5	9961.3	9911.7	9817.9	9715.8	9726.8	10339.2	10703.4	11729.6	12319.9	10753.0
32.5°	10245.5	10278.5	10256.4	10182.0	10049.6	9903.4	10286.8	10623.4	11735.1	12515.8	10733.7
35°	10582.0	10648.2	10684.0	10678.6	10571.0	10317.2	10493.7	10772.4	11867.5	12844.0	10846.8
37.5°	10962.7	11017.8	11172.3	11271.7	11172.3	10877.1	10959.9	11153.1	12159.9	13318.5	11095.1
40°	11332.4	11415.1	11641.3	11950.2	11911.6	11652.3	11671.6	11798.6	12675.8	14024.7	11580.6
42.5°	11718.5	11817.8	12212.3	12670.3	12761.3	12559.9	12612.3	12725.4	13409.6	15004.0	12413.7
45°	12215.1	12333.7	12819.2	13390.2	13748.9	13624.7	13773.7	13828.9	14391.6	16278.5	13511.6
47.5°	12855.1	12993.0	13591.6	14303.4	14810.9	14924.1	15183.3	15150.3	15608.2	17787.5	14935.1
50°	13933.7	14010.9	14576.4	15301.9	15999.9	16510.3	16791.6	16844.0	17117.1	19255.1	16526.8
52.5°	15216.4	15285.4	15693.7	16328.1	17202.7	18284.0	18979.1	18808.1	18874.4	21042.6	18388.8
55°	16659.2	16775.1	17034.3	17456.4	18590.2	20181.9	21577.8	21619.2	20885.4	22753.0	20173.7
57.5°	17776.4	17972.3	18416.4	19017.8	20455.0	22292.2	24168.1	24195.7	23257.8	24579.2	22143.3
60°	17213.6	17445.4	18460.6	19925.4	22901.9	25975.0	27263.3	27106.0	25566.7	26659.1	24546.0
62.5°	14786.1	14827.5	16303.3	18593.0	23655.0	30901.9	31870.1	31205.3	28648.1	29296.3	26987.3
65°	9569.6	9840.0	11009.6	14217.8	21180.5	33635.6	39941.8	38405.2	32968.1	32289.4	29031.5
67.5°	6041.3	5972.3	6457.9	8118.5	14568.2	31227.4	46830.0	46587.2	38617.6	34179.0	28543.2
69°	5009.6	5086.8	5252.4	6223.4	10024.7	26661.9	47643.7	49321.0	41357.0	34030.1	26769.4
70°	4543.4	4579.3	4753.0	5517.2	7735.1	22330.8	46308.7	49246.6	42432.8	33406.6	25484.0
72.5°	3605.5	3602.7	3900.7	4590.3	5782.1	12747.5	38024.5	42755.6	41230.0	30504.6	21056.4
75°	2739.3	2783.4	3111.7	3884.1	5326.8	6965.5	26535.0	32926.6	32929.4	24093.6	13139.2
77.5°	1975.2	2002.8	2386.2	3260.6	5017.9	5646.8	17674.3	23616.4	22201.2	11039.9	4129.6
80°	1293.8	1310.4	1602.7	2582.0	4524.1	5326.8	10479.9	14455.0	10471.7	2929.6	1365.5
82.5°	708.9	791.7	979.3	1671.7	3630.3	4921.3	6369.6	7315.8	3928.2	1304.8	711.7
85°	355.9	378.0	551.7	976.6	2372.4	4071.7	4435.9	4195.9	2027.6	648.2	369.7
87.5°	104.8	132.4	228.9	378.0	962.8	2121.4	2469.0	2215.2	780.7	234.5	77.2
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°	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8	13668.8
2.5°	13555.8	13506.1	13285.4	13086.8	12904.7	12711.6	12548.9	12405.5	12419.2	12422.0	12275.8
5°	13246.8	13133.7	12714.4	12322.7	11991.6	11572.3	11213.7	10982.0	10866.2	10711.7	10766.8
7.5°	12827.5	12609.6	12027.5	11376.4	10766.8	10223.4	9633.0	9227.5	8968.2	8717.1	8750.3
10°	12394.4	12044.0	11197.1	10336.5	9547.5	8678.5	7925.4	7279.9	6800.0	6620.7	6502.0
12.5°	11950.2	11489.6	10413.7	9268.9	8179.2	7139.2	6071.7	5379.3	4849.6	4568.3	4604.1
15°	11544.7	10984.8	9597.2	8201.3	6786.2	5547.6	4482.8	3823.4	3453.7	3376.5	3420.7
17.5°	11169.6	10435.7	8833.0	7164.1	5511.7	4160.0	3368.2	2995.8	2846.9	2805.5	2802.7
20°	10783.4	9969.5	7975.1	6055.1	4295.1	3224.8	2764.1	2590.3	2562.8	2579.3	2582.0
22.5°	10391.7	9393.0	7092.3	4954.4	3420.7	2637.2	2416.6	2369.7	2391.7	2430.4	2435.8
25°	10030.3	8885.5	6242.7	3988.9	2731.0	2317.2	2209.6	2209.6	2259.3	2317.2	2320.0
27.5°	9732.4	8394.4	5395.8	3166.8	2286.9	2085.5	2049.7	2068.9	2137.9	2182.1	2184.8
30°	9486.8	7936.5	4595.8	2537.9	2011.1	1900.7	1892.4	1925.5	1975.2	2016.5	2019.3
32.5°	9302.0	7533.7	3848.2	2132.4	1820.7	1759.9	1757.2	1782.0	1809.7	1820.7	1831.7
35°	9230.2	7199.9	3164.1	1875.8	1693.8	1655.2	1655.2	1652.4	1663.4	1669.0	1674.4
37.5°	9288.2	6943.4	2634.5	1710.3	1600.0	1572.4	1555.8	1539.3	1533.8	1533.8	1536.6
40°	9533.7	6808.3	2240.0	1602.7	1533.8	1492.4	1462.1	1442.8	1423.4	1429.0	1434.5
42.5°	10055.1	6833.1	1972.4	1531.0	1475.9	1417.9	1373.8	1351.7	1337.9	1354.5	1351.7
45°	10885.4	7081.3	1801.4	1481.4	1417.9	1343.5	1302.1	1280.0	1280.0	1304.8	1313.1
47.5°	12046.8	7555.8	1710.3	1442.8	1373.8	1285.5	1244.1	1227.6	1233.1	1274.5	1277.2
50°	13464.7	8380.6	1693.8	1423.4	1351.7	1244.1	1197.2	1180.7	1194.5	1238.6	1244.1
52.5°	15028.8	9442.7	1773.8	1426.2	1332.4	1219.3	1158.6	1133.8	1147.6	1183.4	1194.5
55°	16882.7	10772.4	1980.7	1437.2	1304.8	1205.5	1131.0	1075.8	1092.4	1117.3	1120.0
57.5°	18775.0	12449.5	2344.8	1440.0	1282.7	1180.7	1084.1	1012.4	1012.4	1028.9	1037.2
60°	21086.7	14275.7	2824.8	1442.8	1285.5	1144.8	1020.7	940.7	929.7	938.0	940.7
62.5°	23381.9	15804.0	2904.8	1434.5	1313.1	1109.0	951.7	869.0	849.6	846.9	841.4
65°	24394.3	15519.9	2380.6	1395.9	1343.5	1086.9	896.5	800.0	766.9	755.8	755.8
67.5°	22744.7	13128.2	1790.3	1343.5	1324.1	1064.8	844.2	742.0	703.4	681.4	681.4
69°	21194.3	11677.2	1608.3	1307.6	1274.5	1028.9	811.0	711.7	664.8	640.0	631.7
70°	19997.1	10678.6	1531.0	1277.2	1227.6	987.6	786.2	689.7	637.2	609.6	604.2
72.5°	15958.5	8377.9	1340.7	1161.3	1045.5	830.4	697.9	620.7	571.0	540.7	532.4
75°	9197.2	4540.6	1111.7	1009.7	841.4	645.5	590.3	540.7	502.1	474.5	466.2
77.5°	2830.3	1754.5	805.6	797.3	617.9	499.3	471.8	452.4	424.9	394.5	389.0
80°	1191.7	893.8	546.2	537.9	411.0	347.6	339.3	336.5	325.5	300.7	292.5
82.5°	653.8	504.8	380.7	331.1	248.3	201.4	209.7	212.4	204.1	179.3	162.8
85°	320.0	275.9	184.8	148.9	113.1	71.7	69.0	82.8	77.2	55.2	60.7
87.5°	63.4	77.2	49.6	22.1	11.0	0.0	0.0	0.0	0.0	0.0	0.0
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)