

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: P458085

Luminaire Tested: **GALN-SA9C-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458085
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-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 53205 lumens
Efficiency: N/A
Efficacy: 110.6 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

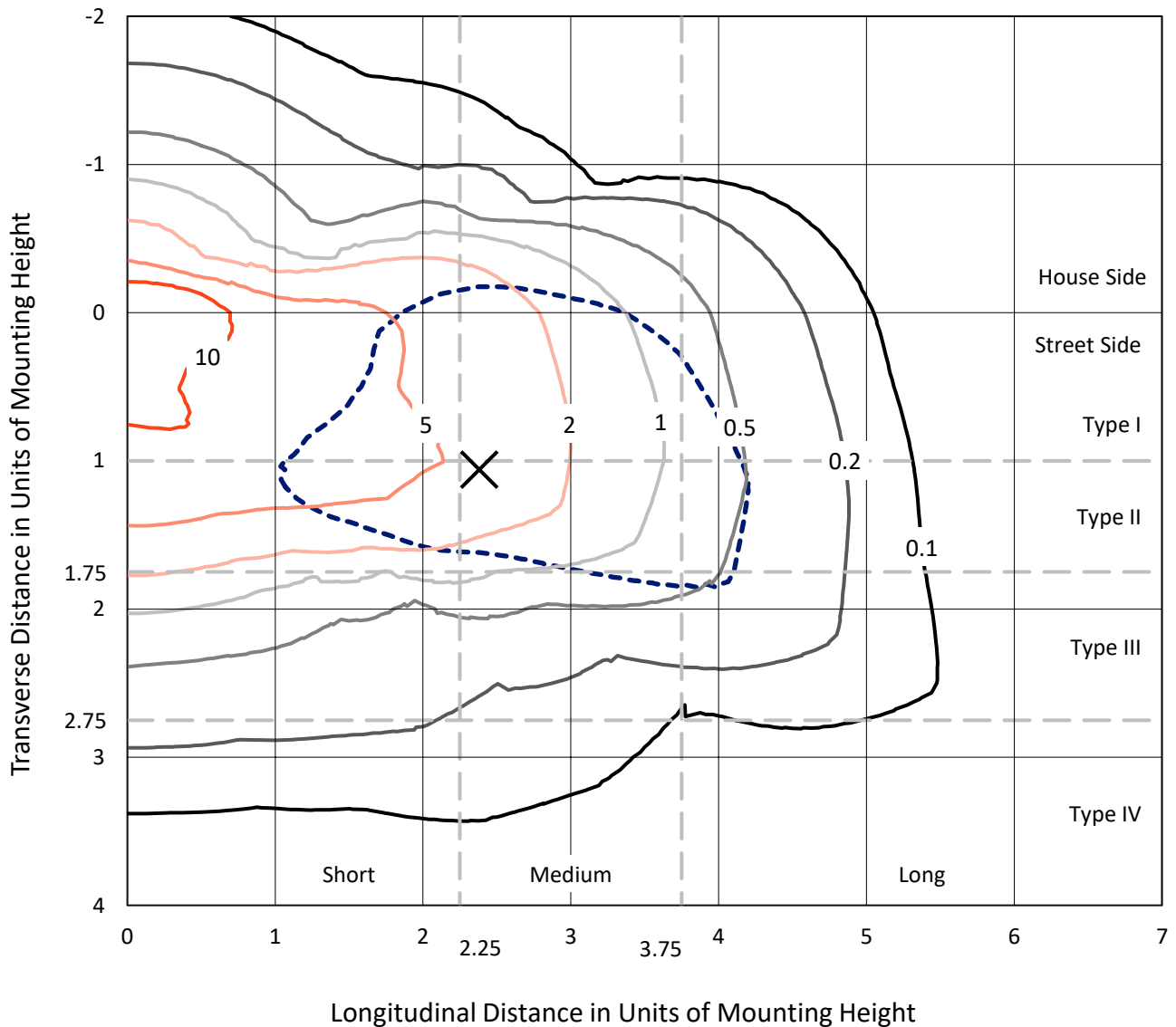
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

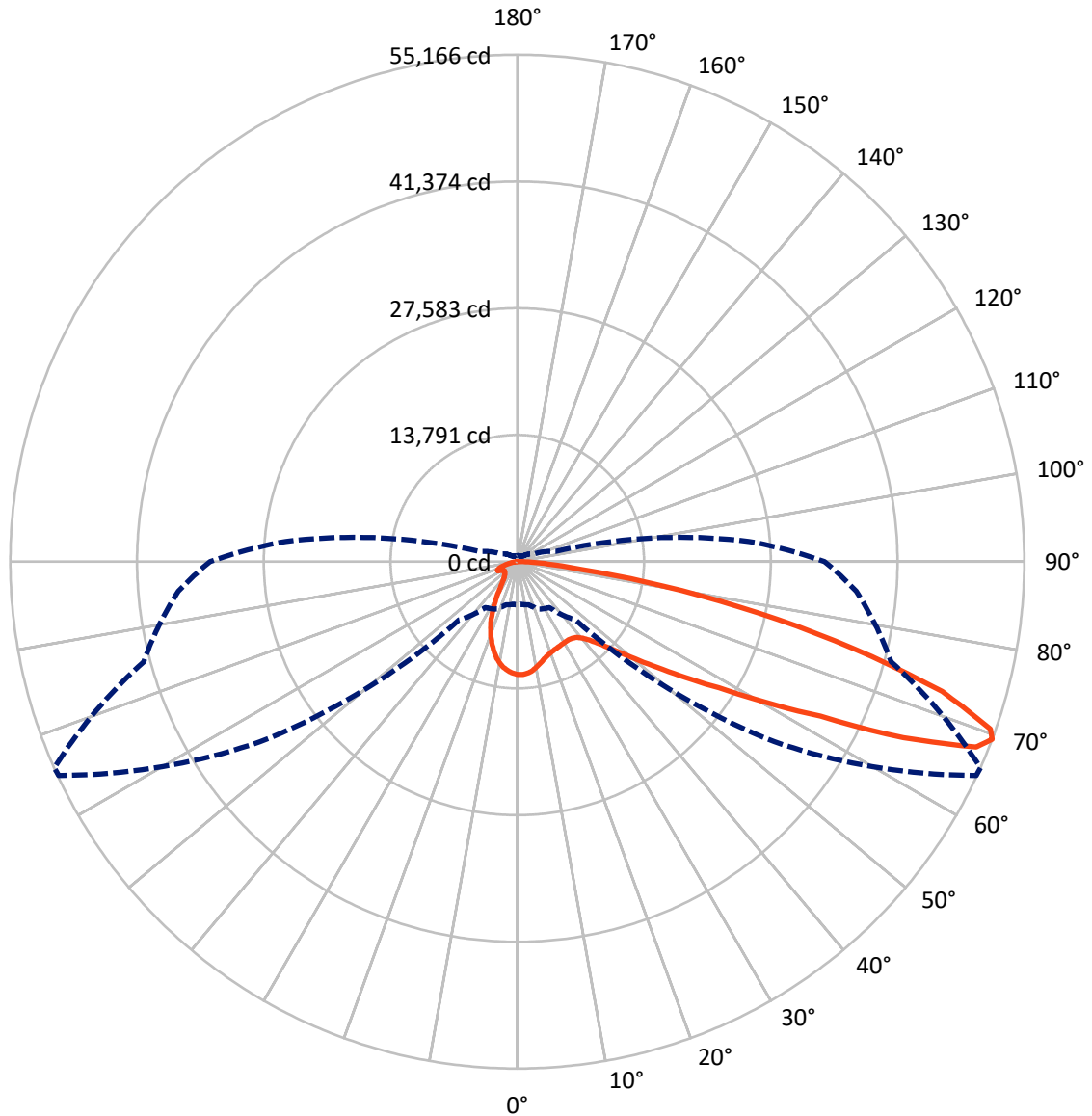
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	10005.9	0.0	10005.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	43199.1	0.0	43199.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	53205.0	0.0	53205.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1067.0	2.0
10°-20°	2530.7	4.8
20°-30°	3445.2	6.5
30°-40°	4629.7	8.7
40°-50°	6912.8	13.0
50°-60°	10996.0	20.7
60°-70°	13524.5	25.4
70°-80°	8799.7	16.5
80°-90°	1299.4	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°	53205.0	100.0
0°-180°	53205.0	100.0



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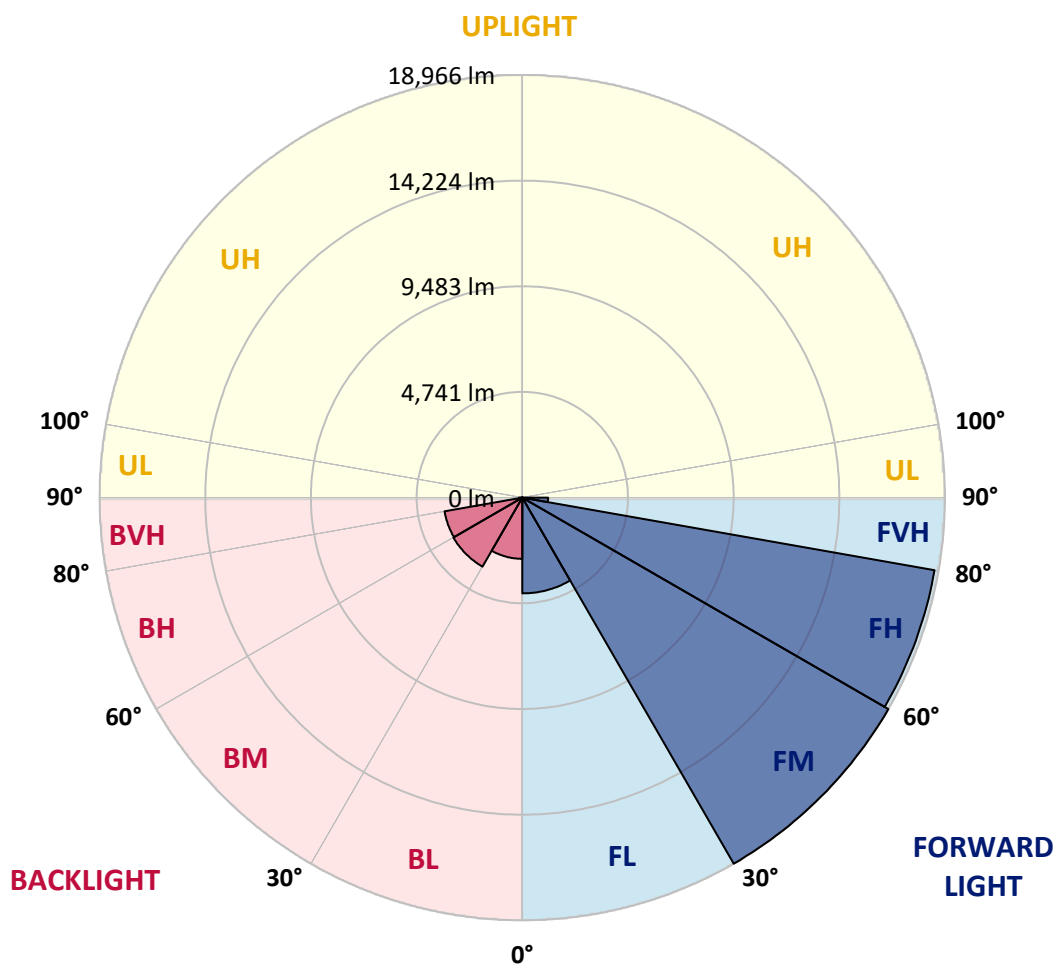
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4296.2	8.1			
FM	(30°-60°)	18966.0	35.6			
FH	(60°-80°)	18781.6	35.3			G5
FVH	(80°-90°)	1155.3	2.2			G5
BL	(0°-30°)	2746.7	5.2	B4/5000		
BM	(30°-60°)	3572.5	6.7	B3/5000		
BH	(60°-80°)	3542.5	6.7	B4/5000		G4/5000
BVH	(80°-90°)	144.2	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°	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5
2.5°	11856.3	11903.5	11956.5	12015.4	12127.4	12189.3	12233.5	12283.6	12289.5	12316.0	12295.4
5°	10981.3	11037.2	11116.8	11228.8	11396.7	11658.9	11930.0	12151.0	12177.5	12301.2	12336.6
7.5°	10250.5	10283.0	10347.8	10527.5	10766.2	11057.9	11452.7	11900.5	11965.4	12260.0	12363.1
10°	9655.4	9687.8	9764.4	9950.0	10185.7	10551.1	10984.2	11573.5	11626.5	12133.3	12369.0
12.5°	9210.5	9239.9	9322.4	9505.1	9776.2	10118.0	10595.3	11219.9	11296.5	11965.4	12313.0
15°	8871.6	8927.6	8995.4	9145.6	9431.4	9761.4	10224.0	10895.8	10957.7	11788.6	12274.7
17.5°	8727.3	8753.8	8800.9	8939.4	9148.6	9472.7	9938.2	10642.4	10716.1	11664.8	12265.9
20°	8733.1	8759.7	8768.5	8845.1	8995.4	9275.3	9734.9	10442.1	10530.5	11555.8	12280.6
22.5°	8933.5	8936.4	8904.0	8877.5	8936.4	9169.2	9590.6	10291.8	10394.9	11508.7	12292.4
25°	9242.9	9295.9	9248.8	9125.0	9016.0	9128.0	9534.6	10209.3	10306.5	11440.9	12277.7
27.5°	9743.8	9752.6	9714.3	9546.4	9263.5	9181.0	9511.0	10147.4	10229.9	11390.8	12204.0
30°	10415.5	10389.0	10353.7	10168.0	9723.1	9384.3	9561.1	10091.4	10176.9	11317.1	12115.6
32.5°	11096.2	11178.7	11146.3	10928.2	10350.7	9779.1	9723.1	10085.5	10156.3	11261.2	12018.4
35°	11818.0	11856.3	12009.6	11897.6	11305.4	10418.5	10026.6	10176.9	10232.9	11264.1	11950.6
37.5°	12383.7	12486.9	12846.3	12943.6	12386.7	11264.1	10518.7	10436.2	10459.7	11408.5	11977.1
40°	13067.3	13244.1	13706.7	14104.4	13739.1	12363.1	11355.4	10916.4	10945.9	11756.2	12151.0
42.5°	13933.6	14057.3	14679.0	15218.2	15159.3	13815.7	12369.0	11703.1	11717.9	12448.6	12637.1
45°	14947.1	15123.9	15822.2	16632.5	16770.9	15459.8	13833.4	12893.5	12884.6	13524.0	13544.6
47.5°	16243.5	16352.6	17045.0	17928.9	18488.7	17525.2	15610.1	14602.4	14508.1	15091.5	14923.5
50°	17436.8	17607.7	18132.2	19098.6	20492.3	19944.2	17946.6	16818.1	16597.1	17142.2	16859.3
52.5°	17937.7	18117.5	18559.4	19758.6	22210.0	23073.3	20913.6	19461.0	19092.7	19511.1	19408.0
55°	17068.5	17301.3	17713.8	19172.3	22964.3	26682.7	24914.8	22516.4	22248.3	22068.6	22098.0
57.5°	14732.0	14953.0	15509.9	17118.6	22062.7	29302.0	30627.9	26444.0	25869.4	25041.5	25182.9
60°	11214.0	11352.5	11641.2	13423.8	19390.3	29982.6	37115.9	31408.7	31043.3	28002.6	28102.8
62.5°	7964.1	8120.3	8320.7	9210.5	14195.8	28064.5	42195.5	38341.6	37036.3	31069.9	30972.6
65°	6467.4	6361.3	6602.9	7018.3	8329.5	21750.4	43338.7	47964.5	46167.2	35109.4	33759.9
67.5°	5318.3	5206.3	5445.0	6184.5	6334.8	12625.3	39219.6	54210.9	53851.5	39502.5	36591.4
69°	4708.4	4649.4	4858.6	5701.3	6081.4	8965.9	34166.5	55080.1	55165.6	42092.4	37027.5
70°	4242.8	4266.4	4469.7	5456.7	5966.5	7392.5	29201.8	53880.9	54605.7	43385.8	36556.1
72.5°	3123.2	3173.3	3456.1	4519.8	5857.5	6272.9	17377.9	47062.9	48344.6	43462.4	33441.7
75°	2183.3	2159.7	2410.2	3403.1	5533.4	6216.9	10206.4	36397.0	37849.5	37566.7	28099.9
77.5°	1429.0	1467.3	1667.7	2404.3	4655.3	6169.8	6653.0	25822.3	26765.2	25124.0	16620.7
80°	1007.7	1004.7	1116.7	1641.1	3453.2	5928.2	5447.9	16275.9	16037.3	9873.4	4929.3
82.5°	577.5	618.7	748.4	1155.0	2310.0	5218.1	5011.8	7784.4	7106.7	2813.8	1664.7
85°	321.2	335.9	444.9	698.3	1349.5	3930.5	4375.4	3541.6	3341.2	1175.6	716.0
87.5°	103.1	112.0	185.6	353.6	612.9	1856.2	2477.9	1635.3	1508.6	424.3	288.7
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°	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5	12286.5
2.5°	12304.2	12339.5	12245.3	12153.9	12071.4	11956.5	11853.4	11767.9	11709.0	11700.2	11670.7
5°	12345.4	12348.4	12168.7	11927.1	11691.3	11432.1	11163.9	10972.4	10792.7	10692.5	10642.4
7.5°	12374.9	12348.4	12024.3	11632.4	11178.7	10707.2	10235.8	9858.7	9567.0	9452.1	9496.3
10°	12363.1	12280.6	11806.2	11178.7	10518.7	9814.5	9136.8	8606.5	8120.3	7869.9	7875.7
12.5°	12298.3	12162.8	11482.1	10668.9	9699.6	8756.7	7719.6	7003.6	6440.8	6107.9	6004.8
15°	12242.3	12006.6	11102.1	9976.5	8771.5	7424.9	6160.9	5277.0	4805.6	4543.4	4540.4
17.5°	12183.4	11856.3	10686.6	9242.9	7704.9	5972.4	4646.5	3971.8	3750.8	3777.3	3733.1
20°	12121.5	11679.6	10253.5	8426.7	6405.5	4455.0	3479.7	3205.7	3267.6	3388.4	3406.0
22.5°	12050.8	11491.0	9788.0	7528.1	5038.4	3353.0	2822.7	2781.4	2940.5	3129.1	3155.6
25°	11941.8	11255.3	9201.6	6588.2	3886.3	2701.9	2472.0	2501.5	2657.7	2816.8	2834.4
27.5°	11788.6	10963.6	8609.4	5415.5	2919.9	2318.8	2259.9	2298.2	2374.8	2472.0	2495.6
30°	11582.3	10633.6	7928.8	4401.9	2339.4	2127.3	2103.7	2124.4	2168.6	2209.8	2221.6
32.5°	11376.1	10315.4	7242.3	3370.7	2086.1	2000.6	1977.0	1977.0	1977.0	1982.9	1985.9
35°	11184.6	10014.8	6505.7	2625.2	1953.5	1900.4	1868.0	1832.7	1826.8	1806.1	1806.1
37.5°	11078.5	9740.8	5721.9	2198.0	1856.2	1817.9	1773.7	1714.8	1682.4	1685.3	1679.5
40°	11099.1	9561.1	5008.9	1956.4	1776.7	1735.4	1667.7	1599.9	1579.3	1579.3	1573.4
42.5°	11331.9	9502.2	4325.3	1829.7	1700.1	1652.9	1567.5	1505.6	1493.8	1490.9	1496.8
45°	11868.1	9646.5	3712.5	1747.2	1635.3	1564.5	1479.1	1423.1	1411.3	1411.3	1408.4
47.5°	12914.1	10115.0	3273.5	1694.2	1588.1	1496.8	1408.4	1352.4	1331.8	1325.9	1325.9
50°	14540.5	11131.5	2946.4	1647.0	1529.2	1434.9	1343.6	1278.7	1246.3	1243.4	1240.4
52.5°	16800.4	12716.7	2819.7	1611.7	1464.4	1370.1	1269.9	1208.0	1166.8	1157.9	1152.0
55°	19443.3	14929.4	2993.5	1585.2	1396.6	1296.4	1193.3	1128.5	1090.2	1072.5	1069.5
57.5°	22504.6	17587.1	3653.5	1549.8	1334.7	1216.9	1116.7	1051.9	1010.6	990.0	984.1
60°	25253.6	20318.4	4805.6	1529.2	1281.7	1131.4	1028.3	969.4	931.1	910.4	907.5
62.5°	28273.7	22923.0	6181.6	1585.2	1258.1	1048.9	945.8	892.8	860.4	839.7	839.7
65°	31500.0	25530.6	7092.0	1773.7	1293.5	984.1	857.4	813.2	783.7	769.0	766.1
67.5°	33674.5	26432.2	5842.7	1968.2	1381.9	913.4	772.0	736.6	718.9	704.2	704.2
69°	33438.8	25291.9	4310.6	2018.3	1408.4	878.0	724.8	698.3	674.7	668.8	662.9
70°	32693.3	23992.6	3612.3	1985.9	1387.8	845.6	695.4	662.9	642.3	636.4	633.5
72.5°	29119.3	20807.5	2690.1	1726.6	1181.5	733.7	615.8	586.3	568.7	559.8	559.8
75°	24192.9	17006.7	2100.8	1373.0	925.2	618.7	527.4	503.8	489.1	483.2	480.3
77.5°	13559.4	9496.3	1508.6	1075.4	701.2	500.9	442.0	421.3	406.6	400.7	400.7
80°	3777.3	2713.6	886.9	710.1	477.3	380.1	350.6	335.9	315.3	300.5	309.4
82.5°	1423.1	1175.6	506.8	427.2	303.5	253.4	244.6	232.8	223.9	203.3	203.3
85°	692.4	571.6	324.1	226.9	167.9	132.6	126.7	120.8	114.9	100.2	103.1
87.5°	238.7	253.4	141.4	82.5	50.1	32.4	26.5	14.7	14.7	14.7	14.7
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)