

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: P453503

Luminaire Tested: **GALN-SA4C-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453503
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-SA4C-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 27761 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

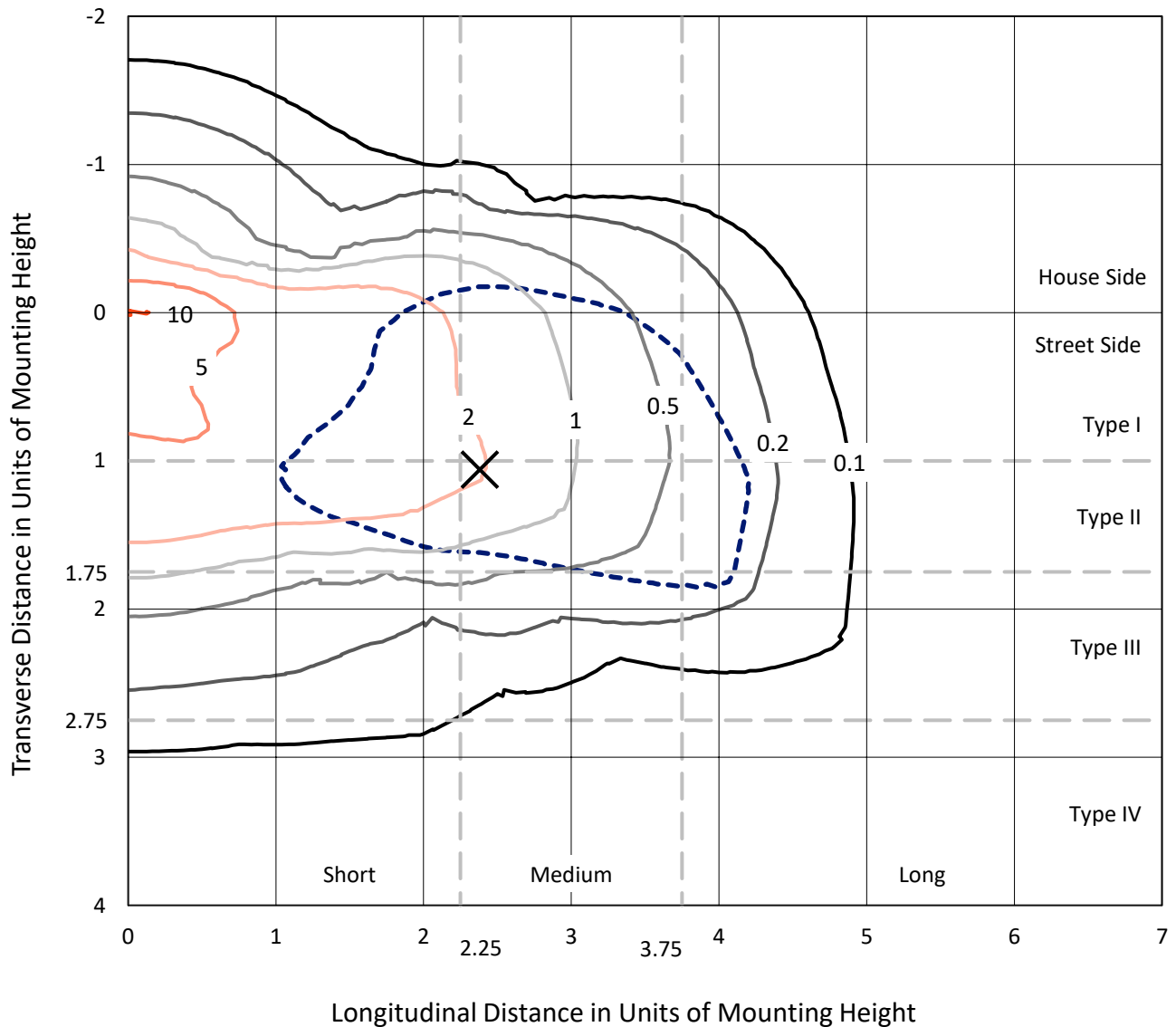
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

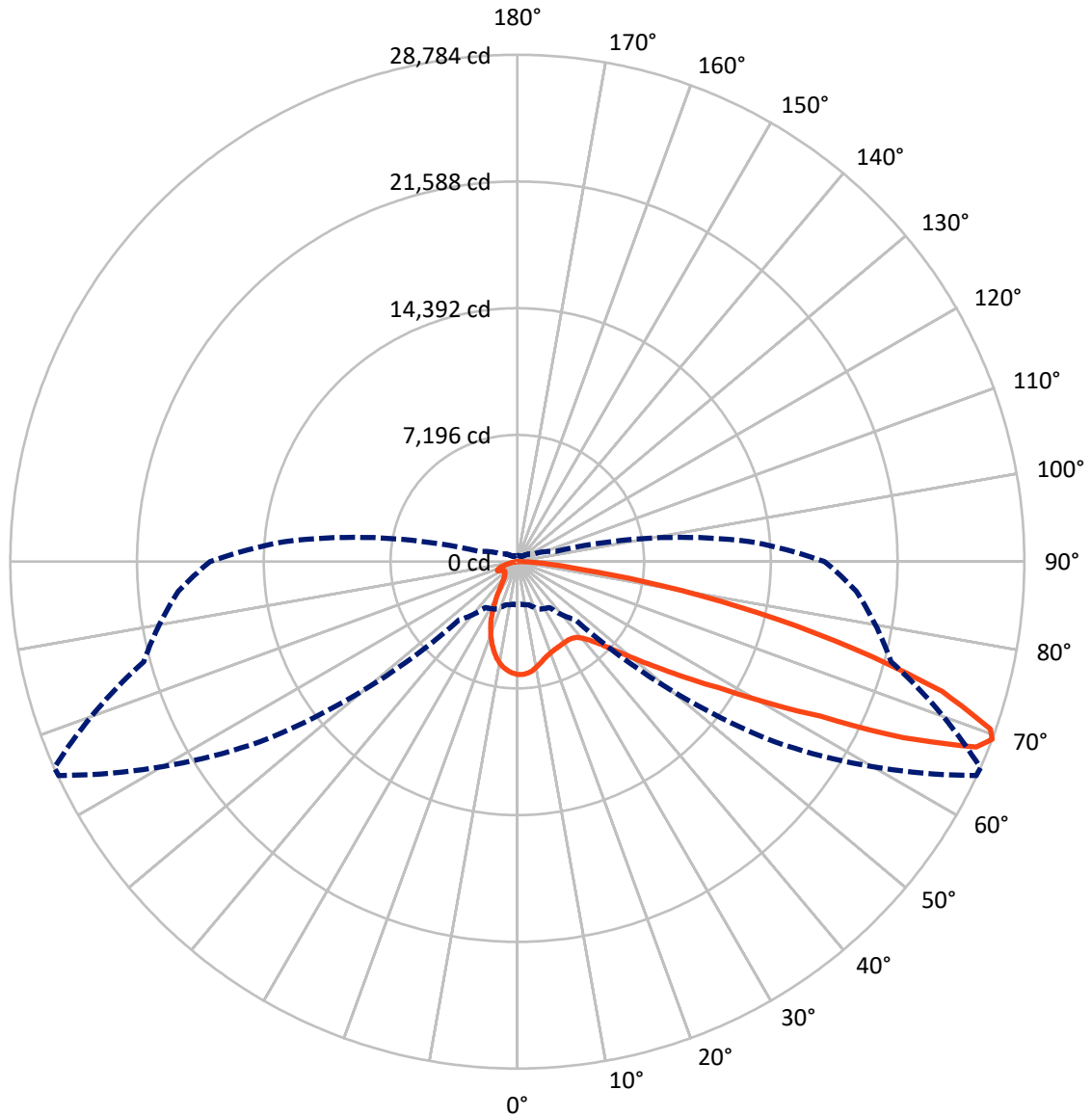
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	5220.8	0.0	5220.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22540.2	0.0	22540.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	27761.0	0.0	27761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.7	2.0
10°-20°	1320.5	4.8
20°-30°	1797.6	6.5
30°-40°	2415.6	8.7
40°-50°	3606.9	13.0
50°-60°	5737.4	20.7
60°-70°	7056.7	25.4
70°-80°	4591.4	16.5
80°-90°	678.0	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°	27761.0	100.0
0°-180°	27761.0	100.0

Coefficient of Utilization



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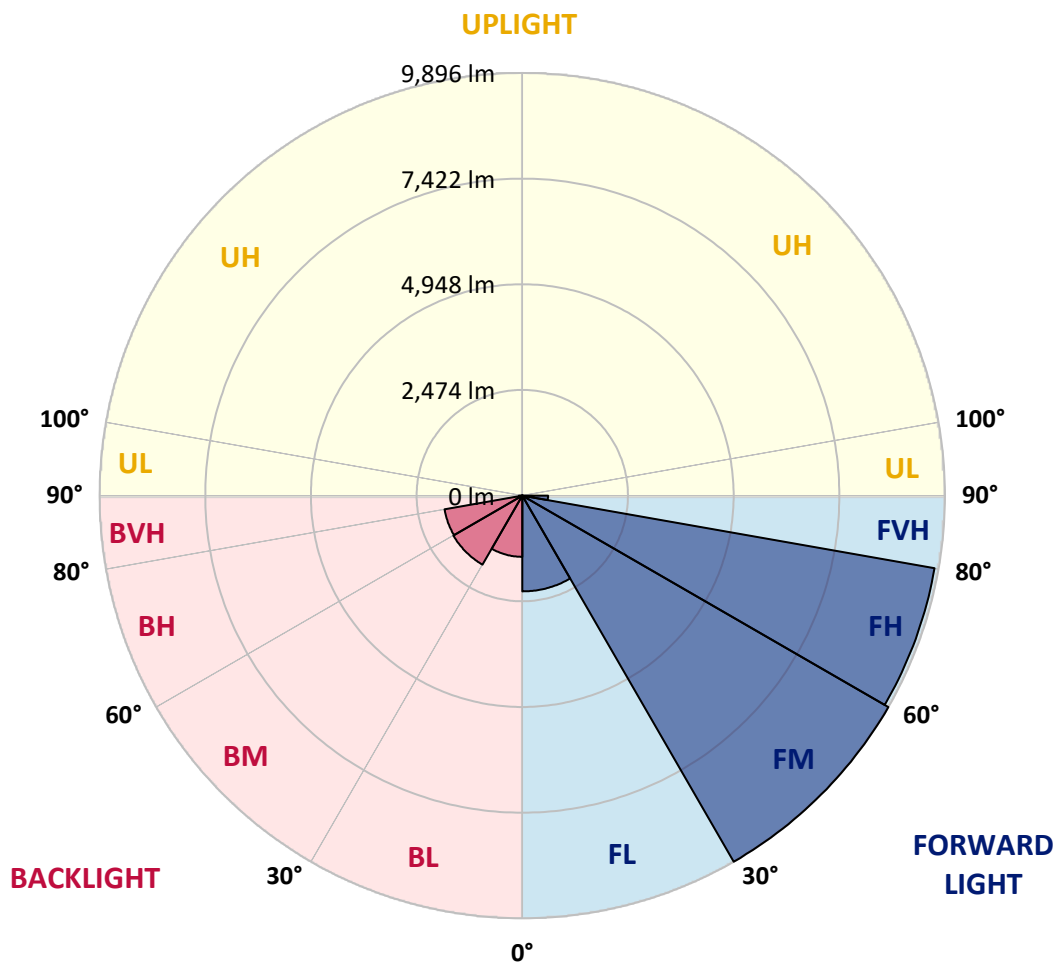
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.7	8.1			
FM	(30°-60°)	9896.0	35.6			
FH	(60°-80°)	9799.8	35.3			G4/12000
FVH	(80°-90°)	602.8	2.2			G4/750
BL	(0°-30°)	1433.1	5.2	B3/2500		
BM	(30°-60°)	1864.1	6.7	B2/2500		
BH	(60°-80°)	1848.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	75.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8
2.5°	6186.3	6210.9	6238.6	6269.3	6327.8	6360.1	6383.1	6409.2	6412.3	6426.2	6415.4
5°	5729.7	5758.9	5800.5	5858.9	5946.5	6083.3	6224.8	6340.1	6353.9	6418.5	6436.9
7.5°	5348.5	5365.4	5399.2	5493.0	5617.5	5769.7	5975.7	6209.4	6243.2	6397.0	6450.8
10°	5037.9	5054.8	5094.8	5191.7	5314.6	5505.3	5731.3	6038.7	6066.4	6330.8	6453.8
12.5°	4805.8	4821.2	4864.2	4959.5	5101.0	5279.3	5528.3	5854.3	5894.2	6243.2	6424.6
15°	4629.0	4658.2	4693.6	4772.0	4921.1	5093.3	5334.6	5685.2	5717.4	6151.0	6404.6
17.5°	4553.7	4567.5	4592.1	4664.3	4773.5	4942.6	5185.5	5552.9	5591.4	6086.4	6400.0
20°	4556.7	4570.6	4575.2	4615.2	4693.6	4839.6	5079.4	5448.4	5494.5	6029.5	6407.7
22.5°	4661.3	4662.8	4645.9	4632.1	4662.8	4784.3	5004.1	5370.0	5423.8	6004.9	6413.9
25°	4822.7	4850.4	4825.8	4761.2	4704.3	4762.7	4974.9	5326.9	5377.7	5969.6	6406.2
27.5°	5084.0	5088.7	5068.7	4981.0	4833.5	4790.4	4962.6	5294.7	5337.7	5943.4	6367.7
30°	5434.6	5420.7	5402.3	5305.4	5073.3	4896.5	4988.7	5265.5	5310.0	5905.0	6321.6
32.5°	5789.7	5832.7	5815.8	5702.1	5400.7	5102.5	5073.3	5262.4	5299.3	5875.8	6270.9
35°	6166.3	6186.3	6266.3	6207.9	5898.8	5436.1	5231.6	5310.0	5339.2	5877.3	6235.5
37.5°	6461.5	6515.3	6702.9	6753.6	6463.1	5877.3	5488.4	5445.3	5457.6	5952.7	6249.4
40°	6818.2	6910.4	7151.8	7359.3	7168.7	6450.8	5925.0	5695.9	5711.3	6134.1	6340.1
42.5°	7270.2	7334.7	7659.1	7940.5	7909.7	7208.7	6453.8	6106.4	6114.1	6495.3	6593.7
45°	7799.0	7891.3	8255.6	8678.4	8750.6	8066.5	7217.9	6727.5	6722.9	7056.5	7067.2
47.5°	8475.5	8532.3	8893.6	9354.8	9646.9	9144.2	8144.9	7619.2	7570.0	7874.4	7786.7
50°	9098.1	9187.3	9460.9	9965.2	10692.3	10406.4	9364.1	8775.2	8659.9	8944.4	8796.8
52.5°	9359.4	9453.2	9683.8	10309.5	11588.6	12039.1	10912.2	10154.3	9962.1	10180.4	10126.6
55°	8905.9	9027.4	9242.6	10003.6	11982.2	13922.3	12999.9	11748.5	11608.6	11514.8	11530.2
57.5°	7686.8	7802.1	8092.7	8932.1	11511.7	15289.0	15980.8	13797.8	13498.0	13066.0	13139.8
60°	5851.2	5923.4	6074.1	7004.2	10117.4	15644.2	19366.1	16388.2	16197.6	14611.1	14663.3
62.5°	4155.5	4237.0	4341.5	4805.8	7407.0	14643.3	22016.5	20005.7	19324.6	16211.4	16160.7
65°	3374.5	3319.2	3445.2	3662.0	4346.1	11348.8	22613.0	25026.7	24088.9	18319.2	17615.1
67.5°	2774.9	2716.5	2841.0	3226.9	3305.3	6587.6	20463.8	28285.9	28098.3	20611.4	19092.5
69°	2456.7	2426.0	2535.1	2974.8	3173.1	4678.2	17827.2	28739.4	28784.0	21962.7	19320.0
70°	2213.8	2226.1	2332.2	2847.2	3113.2	3857.2	15236.8	28113.7	28491.9	22637.6	19074.0
72.5°	1629.6	1655.7	1803.3	2358.3	3056.3	3273.0	9067.3	24556.2	25225.0	22677.6	17449.0
75°	1139.2	1126.9	1257.6	1775.6	2887.2	3243.8	5325.4	18991.0	19748.9	19601.3	14661.8
77.5°	745.6	765.6	870.1	1254.5	2429.0	3219.2	3471.4	13473.4	13965.4	13109.1	8672.2
80°	525.8	524.2	582.7	856.3	1801.8	3093.2	2842.6	8492.4	8367.8	5151.7	2572.0
82.5°	301.3	322.8	390.5	602.6	1205.3	2722.7	2615.0	4061.7	3708.1	1468.2	868.6
85°	167.6	175.3	232.1	364.4	704.1	2050.8	2283.0	1847.9	1743.4	613.4	373.6
87.5°	53.8	58.4	96.9	184.5	319.8	968.5	1292.9	853.2	787.1	221.4	150.7
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°	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8
2.5°	6420.0	6438.5	6389.3	6341.6	6298.6	6238.6	6184.8	6140.2	6109.5	6104.9	6089.5
5°	6441.5	6443.1	6349.3	6223.2	6100.2	5965.0	5825.1	5725.1	5631.3	5579.1	5552.9
7.5°	6456.9	6443.1	6274.0	6069.5	5832.7	5586.8	5340.8	5144.0	4991.8	4931.8	4954.9
10°	6450.8	6407.7	6160.2	5832.7	5488.4	5120.9	4767.3	4490.6	4237.0	4106.3	4109.4
12.5°	6416.9	6346.2	5991.1	5566.8	5061.0	4569.0	4027.9	3654.3	3360.7	3186.9	3133.1
15°	6387.7	6264.7	5792.8	5205.5	4576.7	3874.1	3214.6	2753.4	2507.4	2370.6	2369.1
17.5°	6357.0	6186.3	5576.0	4822.7	4020.2	3116.2	2424.4	2072.4	1957.1	1970.9	1947.8
20°	6324.7	6094.1	5350.0	4396.8	3342.2	2324.5	1815.6	1672.6	1704.9	1768.0	1777.2
22.5°	6287.8	5995.7	5107.1	3928.0	2628.9	1749.5	1472.8	1451.3	1534.3	1632.7	1646.5
25°	6230.9	5872.7	4801.2	3437.5	2027.8	1409.8	1289.8	1305.2	1386.7	1469.7	1478.9
27.5°	6151.0	5720.5	4492.2	2825.7	1523.5	1209.9	1179.2	1199.1	1239.1	1289.8	1302.1
30°	6043.4	5548.3	4137.0	2296.8	1220.7	1110.0	1097.7	1108.4	1131.5	1153.0	1159.2
32.5°	5935.7	5382.3	3778.8	1758.7	1088.5	1043.9	1031.6	1031.6	1031.6	1034.6	1036.2
35°	5835.8	5225.5	3394.5	1369.8	1019.3	991.6	974.7	956.2	953.2	942.4	942.4
37.5°	5780.5	5082.5	2985.6	1146.9	968.5	948.6	925.5	894.7	877.8	879.4	876.3
40°	5791.2	4988.7	2613.5	1020.8	927.0	905.5	870.1	834.8	824.0	824.0	820.9
42.5°	5912.7	4958.0	2256.8	954.7	887.1	862.5	817.9	785.6	779.4	777.9	781.0
45°	6192.5	5033.3	1937.1	911.7	853.2	816.3	771.8	742.5	736.4	736.4	734.9
47.5°	6738.2	5277.8	1708.0	884.0	828.6	781.0	734.9	705.6	694.9	691.8	691.8
50°	7586.9	5808.1	1537.4	859.4	797.9	748.7	701.0	667.2	650.3	648.8	647.2
52.5°	8766.0	6635.2	1471.3	840.9	764.1	714.9	662.6	630.3	608.8	604.2	601.1
55°	10145.0	7789.8	1562.0	827.1	728.7	676.4	622.6	588.8	568.8	559.6	558.1
57.5°	11742.3	9176.5	1906.3	808.7	696.4	634.9	582.7	548.8	527.3	516.6	513.5
60°	13176.7	10601.6	2507.4	797.9	668.8	590.3	536.5	505.8	485.8	475.0	473.5
62.5°	14752.5	11960.7	3225.4	827.1	656.5	547.3	493.5	465.8	448.9	438.1	438.1
65°	16435.9	13321.2	3700.4	925.5	674.9	513.5	447.4	424.3	408.9	401.3	399.7
67.5°	17570.5	13791.6	3048.6	1027.0	721.0	476.6	402.8	384.3	375.1	367.4	367.4
69°	17447.5	13196.7	2249.2	1053.1	734.9	458.1	378.2	364.4	352.1	349.0	345.9
70°	17058.5	12518.7	1884.8	1036.2	724.1	441.2	362.8	345.9	335.1	332.1	330.5
72.5°	15193.7	10856.8	1403.6	900.9	616.5	382.8	321.3	305.9	296.7	292.1	292.1
75°	12623.3	8873.6	1096.1	716.4	482.7	322.8	275.2	262.9	255.2	252.1	250.6
77.5°	7074.9	4954.9	787.1	561.1	365.9	261.4	230.6	219.8	212.2	209.1	209.1
80°	1970.9	1415.9	462.7	370.5	249.1	198.3	182.9	175.3	164.5	156.8	161.4
82.5°	742.5	613.4	264.4	222.9	158.3	132.2	127.6	121.5	116.8	106.1	106.1
85°	361.3	298.2	169.1	118.4	87.6	69.2	66.1	63.0	60.0	52.3	53.8
87.5°	124.5	132.2	73.8	43.0	26.1	16.9	13.8	7.7	7.7	7.7	7.7
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)