

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: P458930

Luminaire Tested: **GALN-SA4C-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25360 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

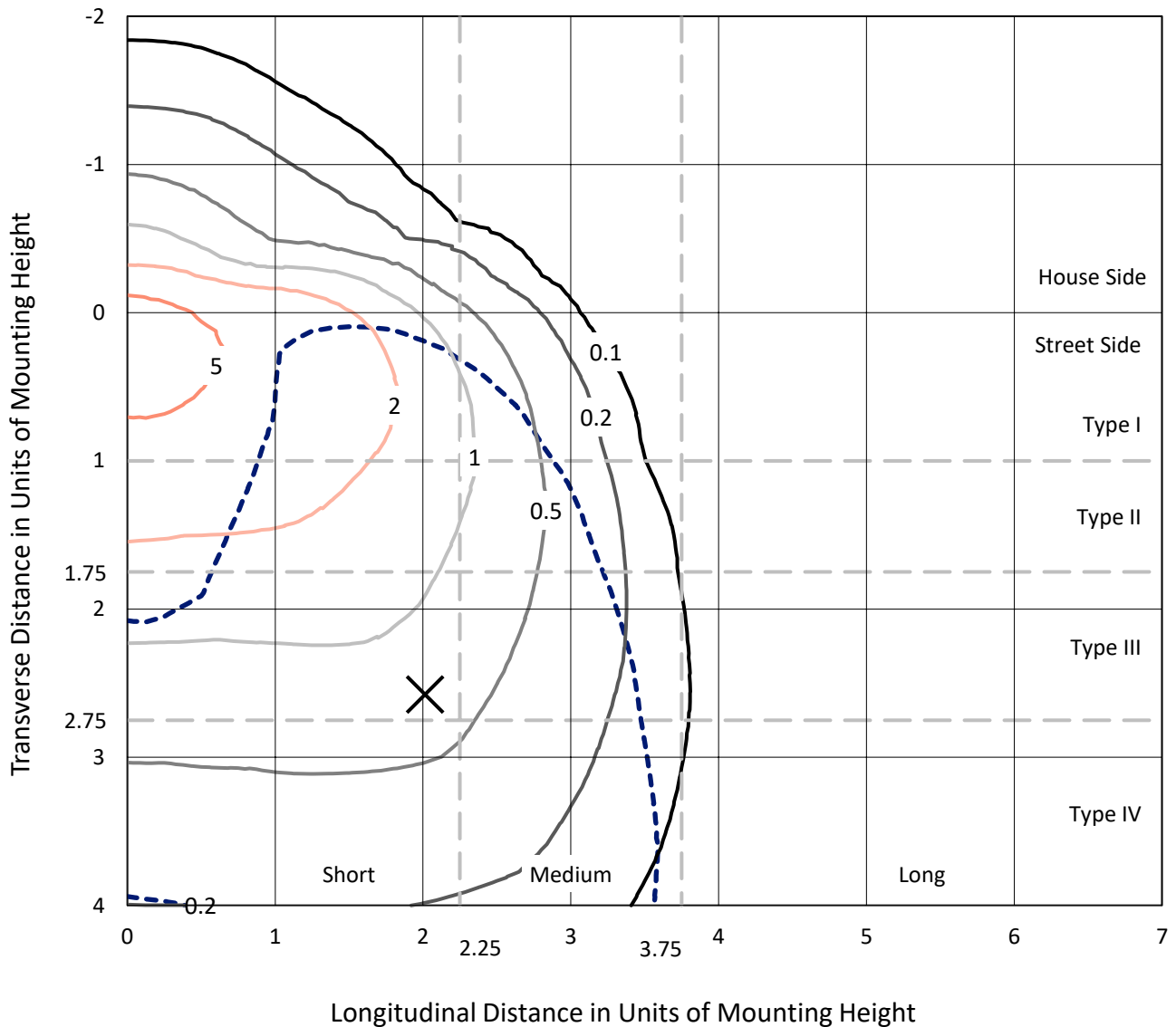
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

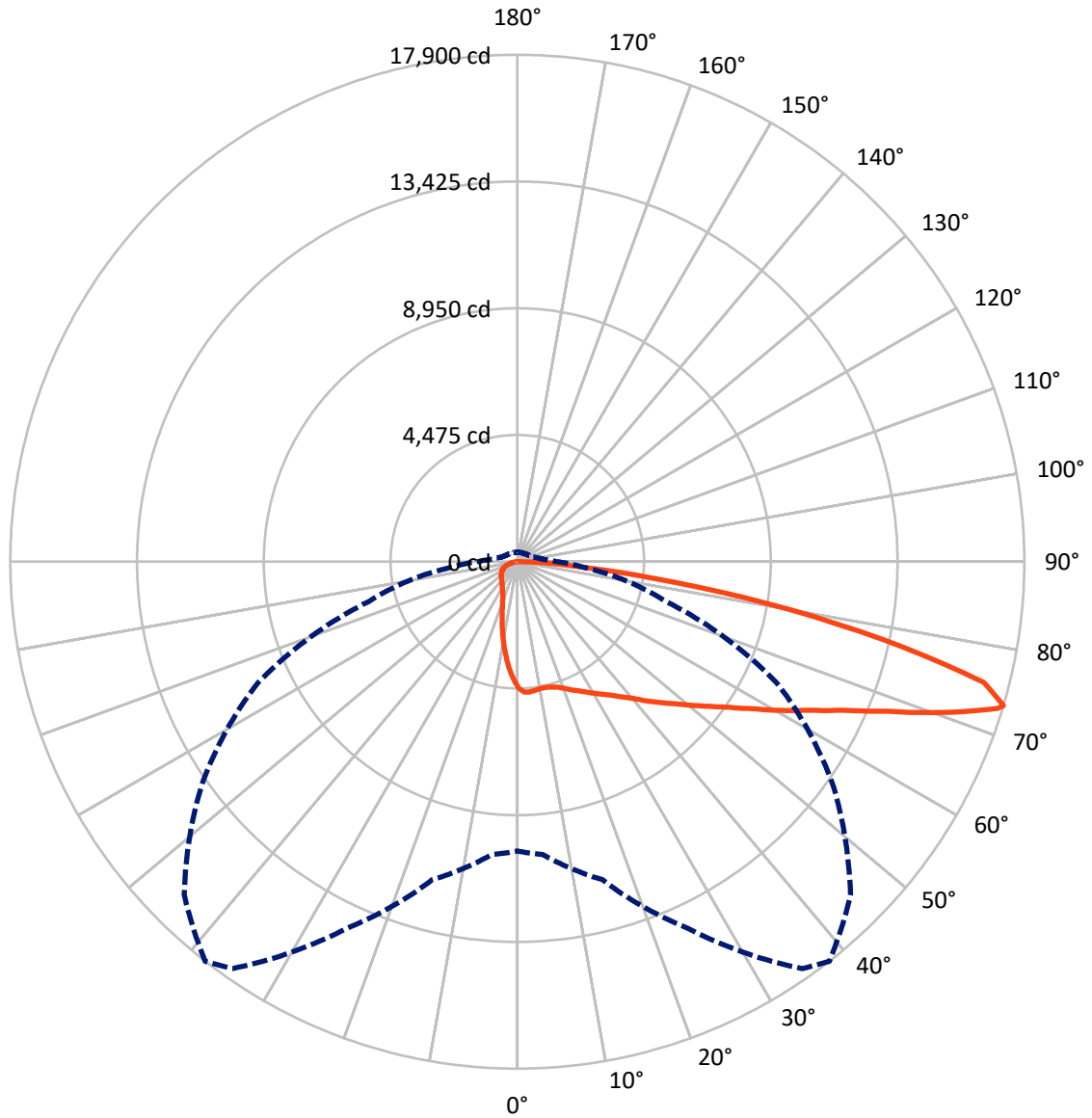
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3409.1	0.0	3409.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21950.9	0.0	21950.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	25360.0	0.0	25360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	1.5
10°-20°	997.3	3.9
20°-30°	1552.9	6.1
30°-40°	2277.8	9.0
40°-50°	3378.9	13.3
50°-60°	4787.2	18.9
60°-70°	6072.7	23.9
70°-80°	5055.0	19.9
80°-90°	849.3	3.3
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°	25360.0	100.0
0°-180°	25360.0	100.0



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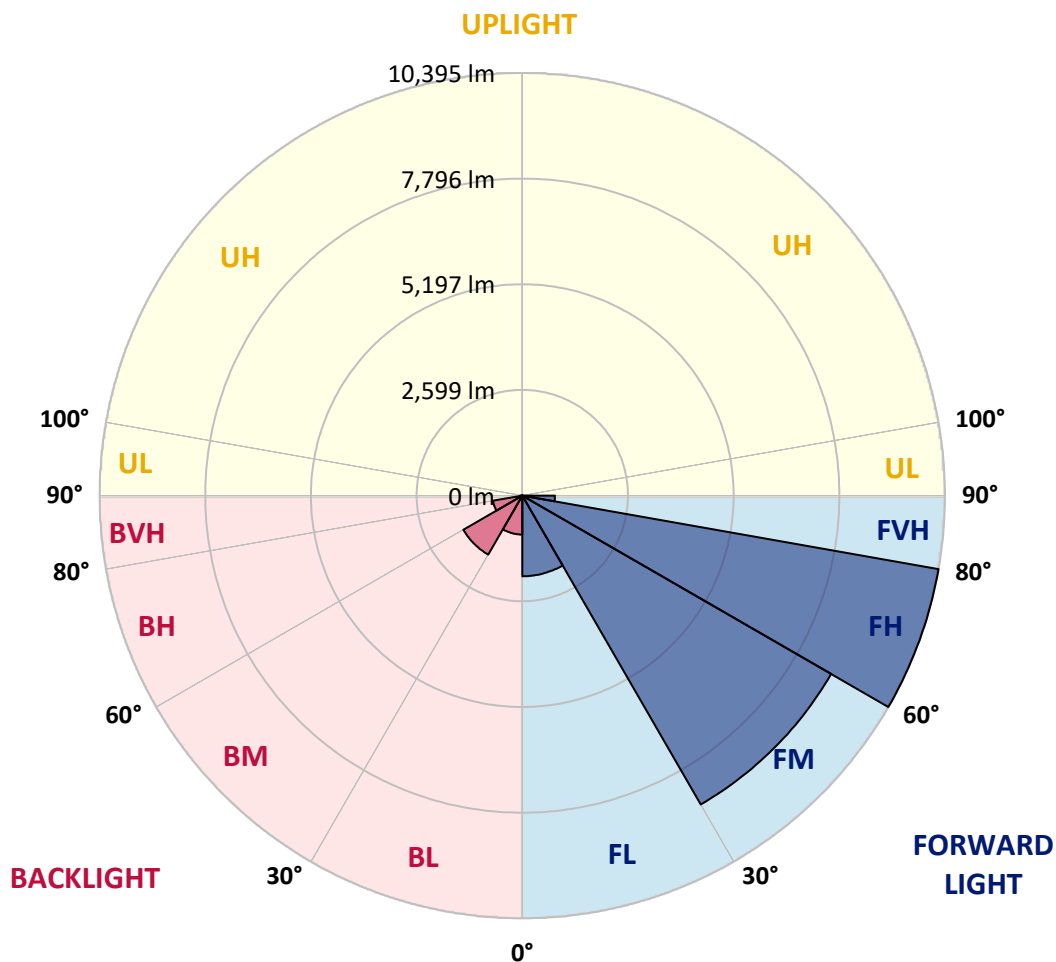
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1982.5	7.8			
FM	(30°-60°)	8770.2	34.6			
FH	(60°-80°)	10395.0	41.0			G4/12000
FVH	(80°-90°)	803.3	3.2			G5
BL	(0°-30°)	956.6	3.8	B2/1000		
BM	(30°-60°)	1673.7	6.6	B2/2500		
BH	(60°-80°)	732.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	46.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3
2.5°	4634.3	4657.3	4645.8	4630.0	4620.0	4610.0	4595.7	4554.1	4521.2	4485.4	4429.5
5°	4668.7	4683.0	4673.0	4653.0	4630.0	4620.0	4592.8	4538.4	4485.4	4425.2	4342.2
7.5°	4648.7	4654.4	4642.9	4618.6	4598.5	4579.9	4548.4	4488.3	4423.8	4350.8	4241.9
10°	4577.1	4598.5	4598.5	4578.5	4558.4	4548.4	4516.9	4459.6	4400.9	4317.8	4188.9
12.5°	4518.3	4541.2	4559.9	4554.1	4552.7	4552.7	4528.4	4485.4	4416.7	4337.9	4184.7
15°	4478.2	4505.4	4545.5	4568.5	4582.8	4587.1	4577.1	4539.8	4469.6	4378.0	4201.8
17.5°	4469.6	4502.6	4575.6	4625.7	4663.0	4661.5	4658.7	4607.1	4529.8	4435.3	4223.3
20°	4508.3	4551.3	4653.0	4731.7	4786.1	4776.1	4760.4	4693.1	4602.8	4496.9	4243.4
22.5°	4624.3	4668.7	4780.4	4866.3	4919.3	4919.3	4872.1	4783.3	4687.3	4568.5	4270.6
25°	4790.4	4839.1	4958.0	5045.4	5069.7	5051.1	5003.8	4896.4	4786.1	4671.6	4327.9
27.5°	4993.8	5052.5	5162.8	5235.8	5228.7	5214.3	5165.7	5028.2	4917.9	4813.4	4425.2
30°	5247.3	5290.2	5404.8	5422.0	5396.2	5393.4	5324.6	5187.1	5084.0	5003.8	4564.2
32.5°	5486.4	5525.1	5616.8	5623.9	5578.1	5583.8	5519.4	5393.4	5334.6	5306.0	4797.6
35°	5739.9	5760.0	5838.7	5830.2	5800.1	5795.8	5770.0	5649.7	5668.3	5719.9	5128.4
37.5°	5951.9	5992.0	6036.4	6043.5	6042.1	6056.4	6073.6	6016.3	6123.7	6285.6	5562.4
40°	6146.7	6181.0	6246.9	6269.8	6325.7	6354.3	6413.0	6414.5	6662.2	6928.6	6096.5
42.5°	6278.4	6337.1	6460.3	6501.8	6637.9	6723.8	6811.2	6904.2	7263.7	7606.0	6726.7
45°	6393.0	6470.3	6675.1	6804.0	6988.7	7093.3	7278.0	7472.8	7989.8	8438.0	7366.8
47.5°	6566.3	6635.0	6869.9	7097.6	7376.8	7497.1	7773.5	8064.3	8740.2	9231.4	7979.8
50°	6806.9	6848.4	7087.6	7458.5	7815.1	7969.7	8334.9	8754.5	9542.2	10014.8	8518.2
52.5°	7114.8	7132.0	7322.4	7816.5	8286.2	8478.1	8962.2	9452.0	10243.9	10695.1	8945.0
55°	7478.5	7449.9	7598.8	8196.0	8824.7	9075.3	9595.2	10158.0	11033.0	11245.0	9255.8
57.5°	7838.0	7793.6	7912.5	8657.2	9489.2	9791.4	10397.2	10885.5	11737.6	11759.1	9473.5
60°	8218.9	8186.0	8327.8	9198.5	10304.1	10662.1	11222.1	11640.3	12419.3	12117.2	9507.8
62.5°	8609.9	8556.9	8758.8	9807.2	11222.1	11547.2	12089.9	12442.2	13088.1	12250.3	9177.0
65°	8989.4	8965.1	9277.3	10530.4	12267.5	12637.0	13164.0	13403.2	13623.7	12049.8	8356.4
67.5°	9393.3	9442.0	9940.3	11495.6	13630.9	14094.9	14663.5	14438.6	13777.0	11100.4	7037.4
70°	10009.1	10040.6	10811.1	12760.2	15388.1	15948.1	16223.0	14806.7	13038.0	9297.3	5290.2
72.5°	10274.0	10412.9	11588.7	14087.8	17384.5	17726.8	16747.2	13986.1	10861.2	6315.6	2779.7
73°	10215.3	10381.4	11624.5	14289.7	17540.6	17900.1	16635.5	13563.6	10096.4	5439.2	2383.0
75°	9483.5	9688.3	11159.1	14120.7	17237.0	17022.2	14839.6	11560.1	6822.6	2473.3	1085.5
77.5°	7482.8	7541.5	8841.9	11402.5	13573.6	13175.5	11106.1	7225.0	2786.9	919.4	615.8
80°	3753.6	3969.8	4983.8	6531.9	9076.8	8946.4	7010.2	3417.0	1161.4	539.9	408.2
82.5°	1805.9	1959.1	2427.4	3185.0	5015.3	4896.4	3471.5	1867.5	737.5	315.1	240.6
85°	1162.9	1277.5	1545.3	1519.5	2062.3	1969.2	1559.6	1413.5	436.8	164.7	167.6
87.5°	767.6	840.7	1008.2	806.3	750.4	678.8	688.8	796.3	85.9	63.0	22.9
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°	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3	4455.3
2.5°	4406.6	4388.0	4326.4	4266.3	4209.0	4154.6	4118.8	4071.5	4040.0	4048.6	4061.5
5°	4296.4	4254.8	4146.0	4040.0	3939.8	3820.9	3724.9	3647.6	3588.9	3567.4	3563.1
7.5°	4180.4	4110.2	3954.1	3772.2	3601.8	3454.3	3283.8	3199.4	3100.5	3066.2	3054.7
10°	4110.2	4015.7	3796.5	3543.1	3286.7	3041.8	2857.1	2706.7	2570.7	2544.9	2532.0
12.5°	4090.1	3965.5	3670.5	3344.0	3003.2	2702.4	2428.9	2231.2	2099.5	2069.4	2025.0
15°	4078.7	3924.0	3553.1	3143.5	2711.0	2344.4	2056.5	1826.0	1705.7	1625.5	1626.9
17.5°	4068.7	3876.7	3421.3	2924.4	2458.9	2036.5	1718.5	1510.9	1400.6	1357.6	1353.4
20°	4054.3	3820.9	3269.5	2693.8	2171.1	1755.8	1467.9	1313.3	1238.8	1203.0	1201.5
22.5°	4048.6	3766.5	3120.6	2458.9	1916.2	1539.5	1301.8	1193.0	1145.7	1121.3	1121.3
25°	4062.9	3727.8	2964.5	2235.5	1689.9	1354.8	1187.2	1112.8	1085.5	1072.7	1068.4
27.5°	4107.3	3710.6	2809.8	2012.1	1482.2	1228.8	1109.9	1058.3	1038.3	1028.3	1029.7
30°	4191.8	3709.2	2658.0	1791.6	1327.6	1132.8	1048.3	1012.5	996.8	991.0	989.6
32.5°	4327.9	3740.7	2509.1	1609.7	1197.3	1052.6	991.0	965.2	958.1	953.8	952.4
35°	4558.4	3829.5	2361.6	1443.6	1097.0	981.0	936.6	923.7	913.7	918.0	919.4
37.5°	4869.2	3982.7	2221.2	1313.3	1021.1	928.0	890.8	879.3	873.6	877.9	882.2
40°	5286.0	4203.3	2103.8	1208.7	966.7	883.6	850.7	840.7	834.9	842.1	843.5
42.5°	5745.7	4458.2	2006.4	1127.1	922.3	846.4	814.9	803.4	799.1	803.4	804.9
45°	6218.3	4754.6	1956.3	1068.4	885.0	819.2	786.2	773.3	763.3	760.5	764.8
47.5°	6683.7	5012.4	1954.8	1032.6	855.0	794.8	759.0	744.7	731.8	724.7	723.2
50°	7063.2	5217.2	1989.2	1016.8	829.2	767.6	731.8	717.5	700.3	686.0	688.8
52.5°	7349.6	5350.4	2005.0	1009.6	814.9	739.0	703.2	690.3	670.2	651.6	651.6
55°	7534.4	5381.9	1966.3	1002.5	803.4	708.9	670.2	658.8	638.7	620.1	620.1
57.5°	7597.4	5284.5	1827.4	985.3	792.0	683.1	637.3	627.3	611.5	592.9	590.0
60°	7451.3	4955.1	1583.9	933.7	769.0	655.9	601.5	597.2	591.5	575.7	574.3
62.5°	6888.5	4256.3	1319.0	866.4	730.4	627.3	568.6	575.7	580.0	571.4	570.0
65°	5951.9	3455.7	1127.1	773.3	678.8	587.2	532.7	551.4	562.8	562.8	560.0
67.5°	4827.7	2653.7	949.5	693.1	614.4	532.7	492.6	507.0	515.6	512.7	519.9
70°	3431.4	1797.3	773.3	601.5	532.7	471.2	441.1	441.1	435.4	432.5	432.5
72.5°	1664.1	1026.8	627.3	502.7	454.0	402.4	378.1	368.1	356.6	355.2	348.0
73°	1390.6	920.9	598.6	484.1	435.4	392.4	365.2	349.4	342.3	336.5	335.1
75°	846.4	698.9	499.8	408.2	370.9	338.0	313.6	299.3	292.2	287.9	286.4
77.5°	557.1	521.3	388.1	312.2	283.6	263.5	253.5	239.2	234.9	229.1	229.1
80°	415.3	398.1	277.8	220.5	203.4	186.2	183.3	180.4	169.0	161.8	159.0
82.5°	267.8	283.6	189.0	147.5	128.9	114.6	116.0	120.3	108.8	98.8	96.0
85°	190.5	204.8	114.6	67.3	54.4	47.3	53.0	47.3	48.7	38.7	31.5
87.5°	31.5	54.4	20.0	8.6	4.3	2.9	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)