

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: P533154

Luminaire Tested: **GALN-SA8C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47618 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

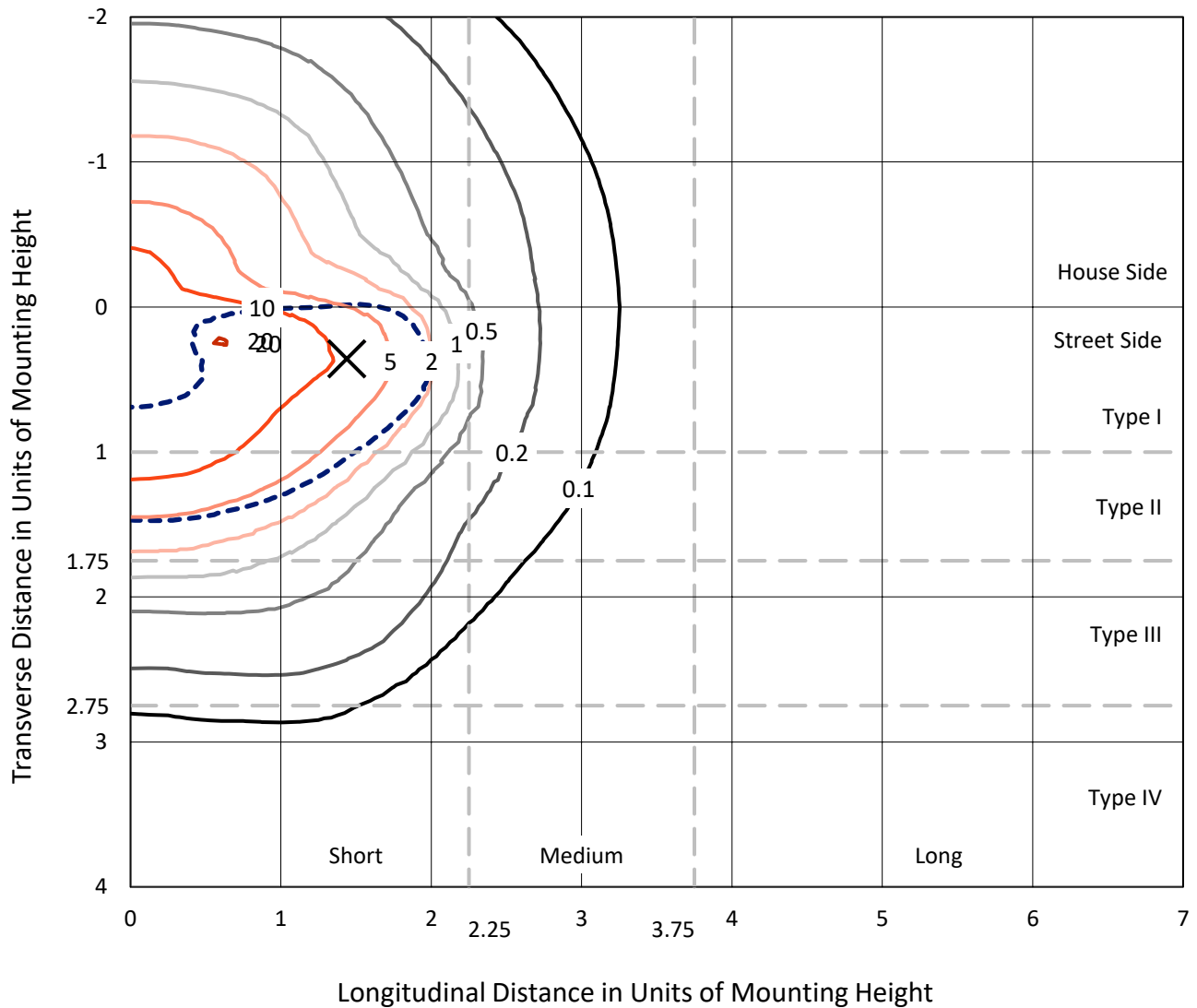
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533154
 CATALOG NUMBER: GALN-SA8C-740-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

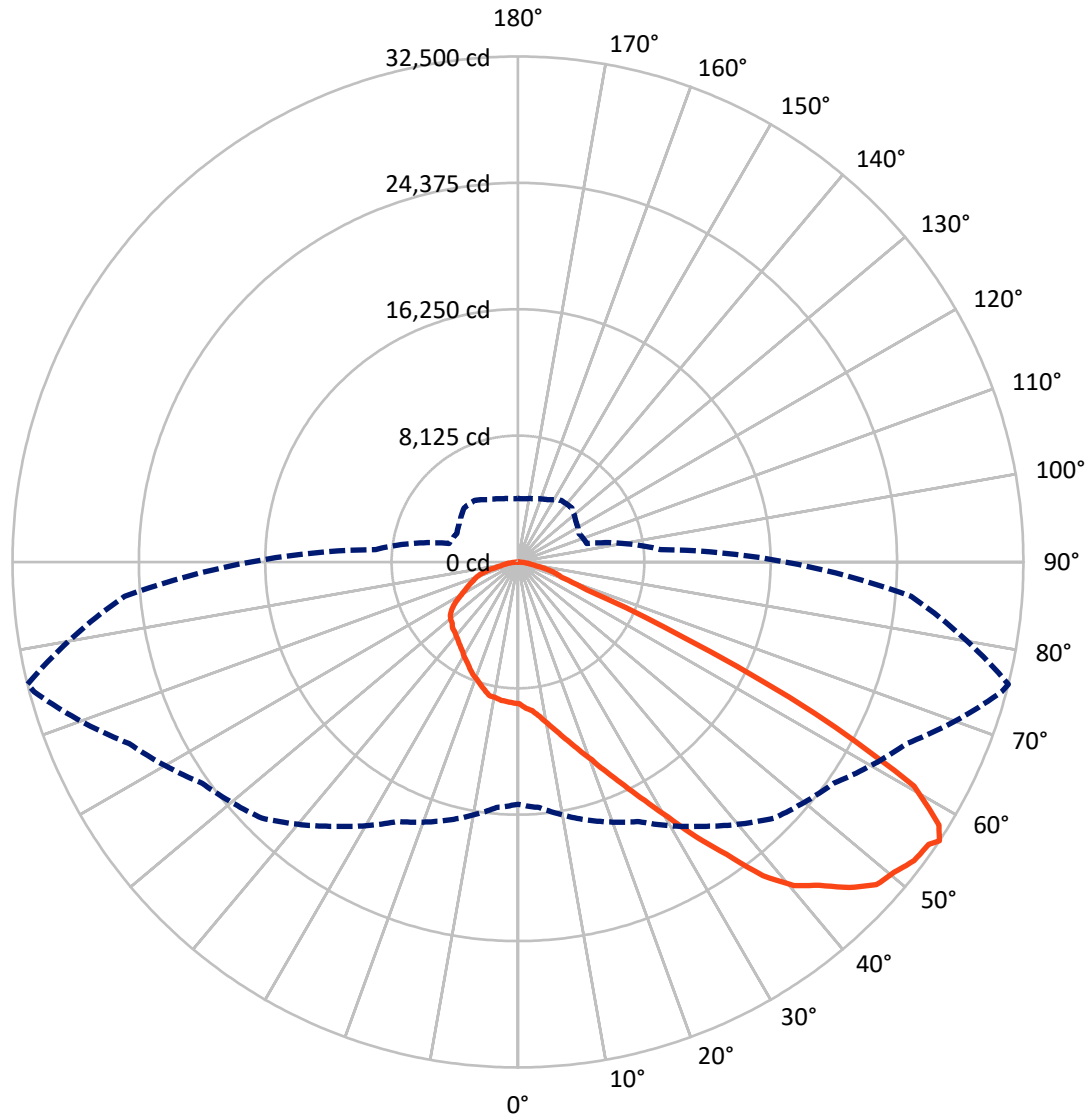
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

REPORT NUMBER: P533154
CATALOG NUMBER: GALN-SA8C-740-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12803.0	0.0	12803.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	34814.9	0.0	34814.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	47618.0	0.0	47618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.5	1.9
10°-20°	2838.3	6.0
20°-30°	4963.9	10.4
30°-40°	7772.0	16.3
40°-50°	11306.0	23.7
50°-60°	12426.0	26.1
60°-70°	5546.4	11.6
70°-80°	1602.0	3.4
80°-90°	259.9	0.5
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°	47618.0	100.0
0°-180°	47618.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533154

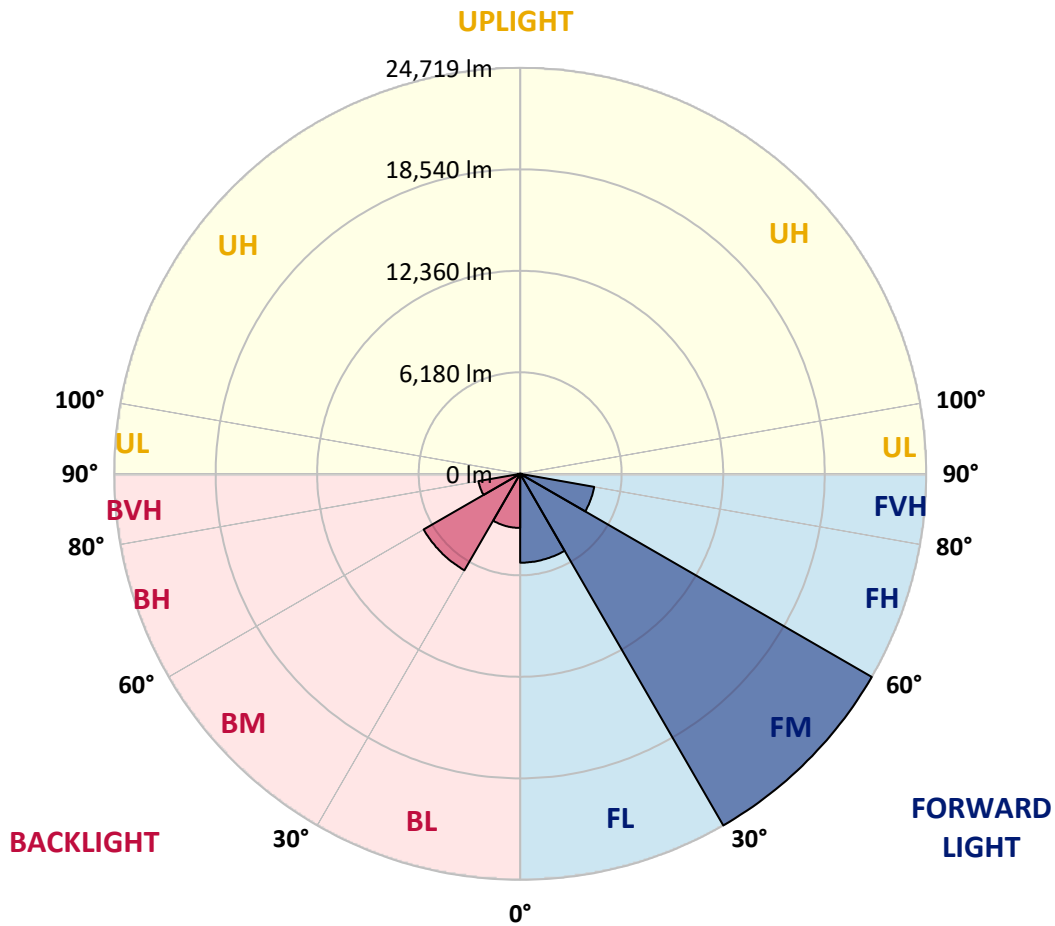
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5411.3	11.4			
FM (30°-60°)	24719.4	51.9			
FH (60°-80°)	4572.5	9.6			G2/5000
FVH (80°-90°)	111.9	0.2			G2/225
BL (0°-30°)	3294.5	6.9	B4/5000		
BM (30°-60°)	6784.6	14.2	B4/8500		
BH (60°-80°)	2576.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	148.0	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-G4

Type II Short





REPORT NUMBER: P533154

CATALOG NUMBER: GALN-SA8C-740-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1
2.5°	10037.0	9876.5	9864.2	9821.0	9845.7	9734.5	9617.3	9462.9	9302.5	9401.2	9166.6
5°	10740.7	10524.7	10611.1	10462.9	10481.5	10333.3	10092.6	9913.6	9716.0	9598.7	9432.1
7.5°	10987.6	11006.2	11067.9	11043.2	10919.7	10919.7	10759.2	10444.4	10098.7	10030.8	9753.1
10°	11321.0	11327.1	11259.2	11277.8	11450.6	11370.3	11228.4	11092.6	10648.1	10567.9	10074.1
12.5°	11438.2	11327.1	11438.2	11537.0	11740.7	11851.8	11821.0	11722.2	11246.9	11191.3	10469.1
15°	11456.8	11388.9	11481.5	11703.7	11882.7	12351.8	12586.4	12518.5	11888.9	11895.0	10913.6
17.5°	11370.3	11462.9	11500.0	11691.3	12104.9	12543.2	13222.2	13314.8	12796.3	12716.0	11475.3
20°	11487.6	11419.7	11469.1	11642.0	12191.3	12876.5	13765.4	14376.5	13648.1	13592.6	12055.5
22.5°	11938.2	11845.7	11833.3	11944.4	12339.5	13049.4	14339.5	15438.2	14685.2	14716.0	12777.8
25°	12290.1	12339.5	12296.3	12290.1	12537.0	13308.6	15098.7	16703.7	16092.6	15913.5	13629.6
27.5°	12895.0	13012.3	12925.9	13043.2	12987.6	13697.5	15641.9	18104.9	17611.1	17370.3	14401.2
30°	13734.5	13796.3	13716.0	13716.0	13549.4	14240.7	16135.8	19567.9	19364.2	19037.0	15308.6
32.5°	14839.5	14932.1	14771.6	14679.0	14654.3	15049.4	17024.7	21012.3	21358.0	21080.2	16512.3
35°	16302.4	16246.9	16055.5	15969.1	15635.8	16290.1	18345.6	22672.8	23580.2	23086.4	17969.1
37.5°	17592.6	17506.1	17493.8	17012.3	17092.6	17629.6	19469.1	23932.1	25734.5	25592.5	19506.1
40°	18796.3	18876.5	19006.1	18734.5	18611.1	19203.7	20777.7	24895.0	27407.4	27351.8	20691.3
42.5°	20086.4	20012.3	20240.7	20012.3	19827.1	20666.6	22197.5	25561.7	28876.5	28419.7	21932.1
45°	21956.7	21722.2	21802.4	21820.9	21685.1	21993.8	22783.9	26043.2	29907.3	29858.0	22839.5
47.5°	23518.5	23524.6	23388.8	23283.9	22870.3	23179.0	23438.2	26345.6	31092.5	31012.3	23191.3
50°	24098.7	24018.5	24413.5	24641.9	24666.6	24037.0	23950.6	26512.3	31716.0	31364.1	23543.2
52.5°	22012.3	22086.4	22709.8	24067.9	24851.8	24919.7	24549.3	26858.0	31969.1	31895.0	23827.1
55°	17716.0	18074.0	19098.7	20666.6	22524.6	24567.9	25197.5	27216.0	32104.9	32043.1	25086.4
56°	15574.0	15851.8	17185.2	18413.5	20746.9	23290.1	24790.1	27598.7	32209.8	32499.9	25382.7
57.5°	12537.0	12858.0	13814.8	15209.8	17962.9	20858.0	23666.6	27129.6	31802.4	31913.5	25598.7
60°	7839.5	7870.4	9018.5	9938.3	11876.5	14703.7	18061.7	23604.9	29432.0	29271.5	22993.8
62.5°	5142.0	5148.1	6191.3	6944.4	7827.1	8475.3	10629.6	15654.3	21716.0	21432.1	16370.3
65°	3611.1	3691.4	4500.0	5506.2	5864.2	5524.7	5456.8	8253.1	12129.6	11722.2	8796.3
67.5°	2642.0	2648.1	3364.2	4444.4	4963.0	4203.7	3413.6	4030.9	4802.5	4790.1	4074.1
70°	1746.9	1821.0	2370.4	3321.0	3913.6	3376.5	2790.1	2882.7	3055.5	3055.5	3030.9
72.5°	1018.5	1086.4	1450.6	2104.9	2197.5	2111.1	2209.9	2469.1	2580.2	2574.1	2543.2
75°	580.2	611.1	691.4	876.5	1092.6	1290.1	1623.5	1870.4	1981.5	2049.4	1969.1
77.5°	339.5	358.0	407.4	500.0	567.9	697.5	882.7	1055.6	1203.7	1185.2	1197.5
80°	179.0	179.0	228.4	296.3	395.1	493.8	586.4	685.2	765.4	783.9	802.5
82.5°	104.9	111.1	148.1	216.0	284.0	351.9	450.6	518.5	592.6	598.8	611.1
85°	55.6	61.7	92.6	142.0	191.4	216.0	222.2	209.9	228.4	216.0	246.9
87.5°	18.5	18.5	30.9	24.7	24.7	30.9	37.0	37.0	49.4	49.4	49.4
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°	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1	9111.1
2.5°	9160.5	9160.5	9055.5	8858.0	8827.1	8746.9	8672.8	8666.6	8611.1	8561.7	8537.0
5°	9333.3	9142.0	8987.6	8808.6	8598.7	8500.0	8388.9	8265.4	8216.0	8265.4	8259.2
7.5°	9530.8	9370.4	8907.4	8574.1	8333.3	8234.6	8111.1	7981.5	7993.8	7993.8	7907.4
10°	9722.2	9506.2	8765.4	8339.5	7987.6	7913.6	7845.7	7895.0	7956.8	7969.1	7913.6
12.5°	10043.2	9555.5	8697.5	8104.9	7882.7	7722.2	7765.4	7901.2	8030.8	7993.8	8037.0
15°	10283.9	9598.7	8388.9	7864.2	7586.4	7660.5	7814.8	7907.4	8123.4	8098.7	8142.0
17.5°	10518.5	9623.4	8086.4	7543.2	7425.9	7629.6	7746.9	8012.3	8080.2	8228.4	8283.9
20°	11000.0	9672.8	7777.8	7345.7	7308.6	7543.2	7746.9	7870.4	8018.5	8148.1	8148.1
22.5°	11246.9	9648.1	7574.1	7086.4	7203.7	7351.8	7537.0	7746.9	7746.9	7870.4	7876.5
25°	11555.5	9549.4	7253.1	6962.9	7049.4	7191.3	7401.2	7327.1	7407.4	7407.4	7506.2
27.5°	11907.4	9339.5	6975.3	6740.7	6913.6	7067.9	7098.8	7049.4	6956.8	6944.4	6907.4
30°	12191.3	9080.2	6771.6	6666.7	6808.6	6895.0	6796.3	6691.3	6530.9	6518.5	6432.1
32.5°	12580.2	8759.2	6518.5	6481.5	6642.0	6648.1	6617.3	6456.8	6222.2	6123.4	6024.7
35°	13234.5	8574.1	6327.1	6382.7	6432.1	6413.6	6358.0	6185.2	5950.6	5907.4	5870.4
37.5°	13716.0	8438.3	6129.6	6197.5	6240.7	6265.4	6098.8	5907.4	5913.6	5827.1	5802.5
40°	14259.2	8351.8	5969.1	6000.0	6006.2	6086.4	5882.7	5790.1	5833.3	5777.8	5814.8
42.5°	14956.8	8376.5	5802.5	5777.8	5895.0	5864.2	5765.4	5642.0	5666.7	5500.0	5524.7
45°	15327.1	8543.2	5703.7	5592.6	5722.2	5716.0	5586.4	5469.1	5321.0	5000.0	5012.3
47.5°	15574.0	8586.4	5469.1	5395.1	5530.9	5611.1	5463.0	5191.3	4981.5	4753.1	4697.5
50°	15827.1	8666.6	5358.0	5203.7	5259.2	5450.6	5265.4	5006.2	4802.5	4598.8	4629.6
52.5°	16049.4	8821.0	5142.0	4913.6	5012.3	5222.2	5123.4	4808.6	4586.4	4419.7	4370.4
55°	17037.0	9166.6	4777.8	4481.5	4716.0	4981.5	4925.9	4543.2	4302.5	4216.0	4203.7
56°	17191.3	9179.0	4586.4	4333.3	4549.4	4901.2	4833.3	4425.9	4209.9	4074.1	4080.2
57.5°	17216.0	9030.8	4314.8	4197.5	4382.7	4783.9	4697.5	4333.3	4037.0	3913.6	3876.5
60°	15148.1	7049.4	3975.3	3901.2	4117.3	4425.9	4395.1	4080.2	3746.9	3604.9	3672.8
62.5°	10327.1	5166.7	3709.9	3697.5	3808.6	4111.1	4030.9	3746.9	3469.1	3376.5	3333.3
65°	6012.3	3919.7	3450.6	3401.2	3493.8	3654.3	3709.9	3413.6	3123.5	3061.7	3043.2
67.5°	3549.4	3240.7	3117.3	3037.0	3006.2	3104.9	3148.1	2975.3	2685.2	2598.8	2672.8
70°	2969.1	2882.7	2888.9	2753.1	2679.0	2611.1	2574.1	2419.7	2179.0	2067.9	2037.0
72.5°	2561.7	2524.7	2500.0	2376.5	2308.6	2154.3	1993.8	1839.5	1660.5	1567.9	1574.1
75°	1956.8	1944.4	1956.8	1895.1	1777.8	1654.3	1506.2	1308.6	1172.8	1055.6	1080.2
77.5°	1166.7	1203.7	1222.2	1197.5	1148.1	1037.0	944.4	814.8	685.2	592.6	580.2
80°	802.5	833.3	864.2	833.3	783.9	703.7	604.9	506.2	413.6	364.2	351.9
82.5°	611.1	642.0	660.5	629.6	567.9	481.5	413.6	345.7	271.6	222.2	209.9
85°	222.2	253.1	246.9	296.3	321.0	308.6	265.4	203.7	154.3	111.1	104.9
87.5°	61.7	55.6	61.7	61.7	61.7	55.6	49.4	49.4	49.4	30.9	24.7
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)