

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: P651124

Luminaire Tested: **GALN-SA9C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45346.7 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

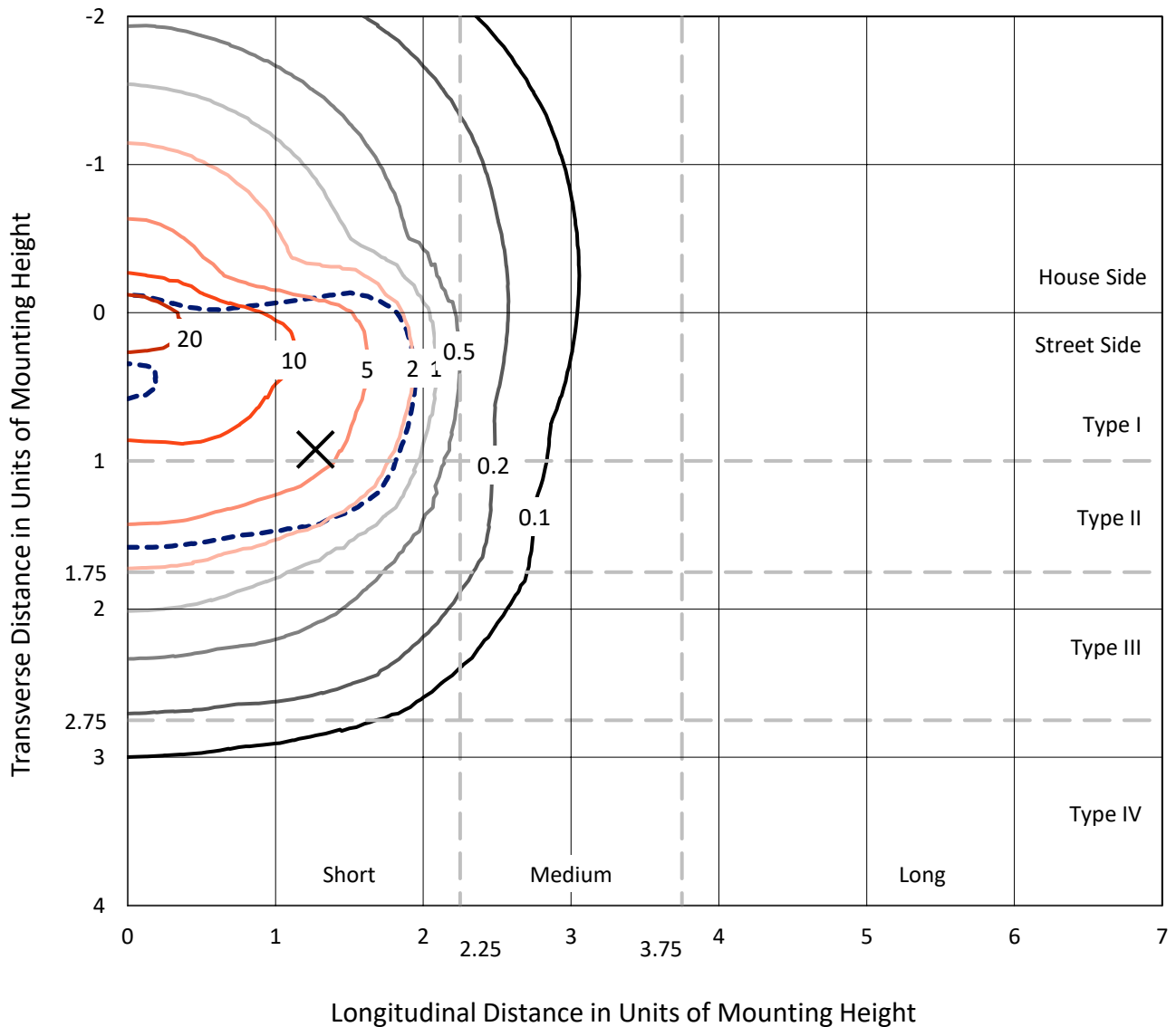
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

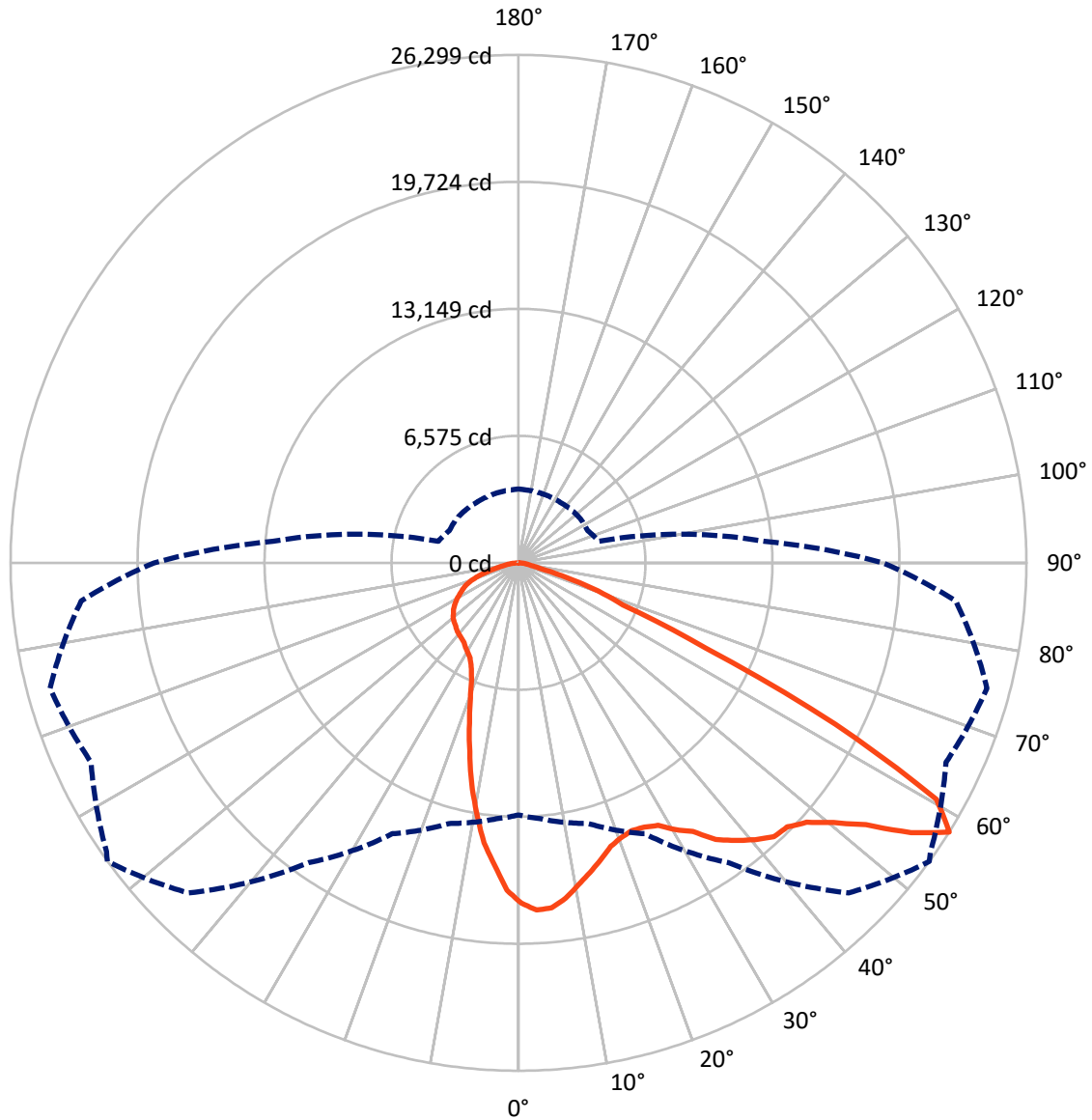
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12545.4	0.0	12545.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	32801.3	0.0	32801.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	45346.7	0.0	45346.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1520.1	3.4
10°-20°	3519.5	7.8
20°-30°	4944.9	10.9
30°-40°	6913.0	15.2
40°-50°	9358.9	20.6
50°-60°	11399.5	25.1
60°-70°	5937.4	13.1
70°-80°	1521.4	3.4
80°-90°	232.1	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°	45346.7	100.0
0°-180°	45346.7	100.0

Coefficient of Utilization



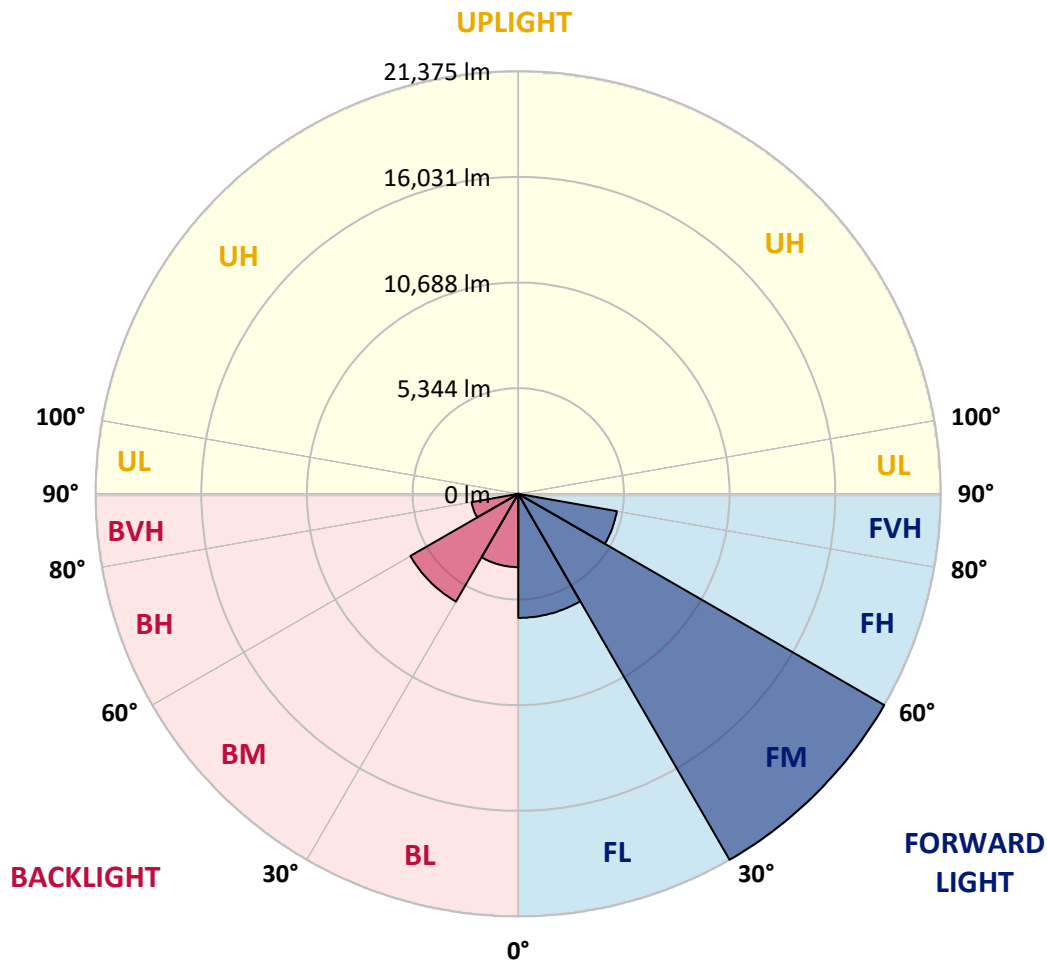
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6276.6	13.8			
FM	(30°-60°)	21375.0	47.1			
FH	(60°-80°)	5062.0	11.2			G3/7500
FVH	(80°-90°)	87.7	0.2			G1/100
BL	(0°-30°)	3707.8	8.2	B4/5000		
BM	(30°-60°)	6296.4	13.9	B4/8500		
BH	(60°-80°)	2396.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	144.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8
2.5°	18127.0	18057.0	18068.7	18162.0	18045.4	17998.7	17998.7	17771.5	17788.9	17631.6	17590.8
5°	17707.3	17544.2	17654.9	17794.8	17818.1	17864.7	17940.5	17882.2	17719.0	17550.0	17276.1
7.5°	16611.6	16757.3	16798.0	16897.2	17107.0	17299.4	17538.3	17375.1	17369.3	17200.3	17037.1
10°	15649.8	15562.5	15783.9	15929.6	16279.3	16599.9	16967.1	16949.6	17037.1	16844.7	16564.9
12.5°	14694.0	14624.0	14728.9	15061.1	15550.8	16017.0	16454.2	16291.0	16757.3	16722.3	16122.0
15°	13679.8	13732.3	13883.8	14192.7	14833.8	15393.4	15947.1	15952.9	16366.8	16506.6	15702.3
17.5°	12968.6	12910.4	13102.8	13563.2	14134.4	14804.7	15434.2	15562.5	16197.7	16279.3	15574.1
20°	12438.3	12519.9	12770.5	13003.6	13662.3	14472.4	15183.6	15230.2	16162.8	16384.3	15370.1
22.5°	12310.1	12263.4	12345.0	12723.9	13265.9	14146.0	15049.5	15224.4	16157.0	16349.3	14985.4
25°	12176.0	12327.5	12321.7	12700.5	13096.9	13883.8	15160.2	15352.6	16465.9	16529.9	15037.8
27.5°	12479.1	12461.6	12624.8	12653.9	13143.6	13953.7	15393.4	15539.1	16978.8	16926.3	15078.6
30°	12782.2	12694.7	12793.8	13137.7	13365.0	14355.9	16034.5	16022.9	17643.3	17608.3	15206.9
32.5°	13155.2	13114.4	13178.6	13481.6	13866.3	14892.1	16576.6	16920.5	18319.3	18540.9	15649.8
35°	13225.1	13394.2	13545.7	13953.7	14501.6	15760.6	17596.6	17882.2	19100.4	19794.0	16495.0
37.5°	13668.1	13732.3	14087.8	14810.5	15311.8	16920.5	18243.6	18424.3	19811.5	20598.4	17386.7
40°	14140.2	14216.0	14752.2	15510.0	16197.7	17678.2	18849.8	18908.0	20038.8	21216.2	17969.6
42.5°	14781.4	14851.3	15381.7	16331.8	17252.7	18325.2	19386.0	19450.1	20021.4	21927.3	18896.4
45°	15445.8	15614.8	16238.5	17316.9	18144.5	19082.9	19508.4	19770.6	20184.5	22562.6	19648.3
47.5°	16378.4	16535.8	17048.8	18103.7	19071.3	19747.4	20073.7	20330.2	20575.1	23116.3	20132.0
50°	17369.3	17398.4	18022.1	18978.0	19689.1	20499.3	21128.8	21216.2	21088.0	23757.5	20953.9
52.5°	18097.9	18191.2	18674.9	19607.5	20668.3	21665.0	22527.6	22620.9	22370.3	23996.4	21233.7
55°	16891.3	16838.9	17625.8	18867.2	21326.9	23401.9	24655.1	24725.0	23302.8	24736.7	22148.7
57.5°	13056.1	13306.7	13977.0	15475.0	18948.8	24171.3	26298.7	26048.1	24421.9	25109.7	22731.6
60°	9489.0	9430.7	9879.5	10882.0	14280.1	20831.5	24864.9	25121.3	23506.8	22632.6	18744.9
62.5°	7728.8	7647.1	7682.1	7717.1	9215.1	13825.5	18406.8	18401.0	18103.7	16267.7	12642.2
65°	6178.3	6370.7	6388.2	6650.5	6842.8	8259.1	10666.4	11237.6	9786.3	8026.0	5822.8
67.5°	4657.0	4587.2	4820.3	5752.9	6114.2	5962.7	5822.8	5886.9	4185.0	3019.2	2844.3
70°	2745.3	2716.2	2995.9	4010.1	5035.9	4738.7	4388.9	4394.8	2873.5	2110.0	2348.9
72.5°	1503.8	1498.0	1556.3	2034.2	2861.8	2972.6	2634.5	2716.2	1713.6	1707.8	1836.0
75°	839.3	821.8	804.3	897.6	1031.7	1089.9	1113.2	1124.9	1177.4	1317.3	1369.7
77.5°	308.9	297.3	297.3	343.9	437.2	547.9	693.6	705.3	833.5	955.9	1008.4
80°	105.0	116.6	157.4	215.6	291.4	390.5	472.1	483.7	588.7	670.3	687.8
82.5°	64.1	70.0	105.0	151.5	209.8	273.9	349.7	355.6	437.2	489.6	512.9
85°	29.2	35.0	58.3	93.3	134.1	180.6	186.5	186.5	180.6	186.5	174.8
87.5°	0.0	0.0	11.7	11.7	11.7	17.5	23.3	17.5	29.2	35.0	35.0
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°	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8	17625.8
2.5°	17468.4	17404.2	17206.1	17031.3	16978.8	16745.7	16401.8	16442.6	16191.9	16308.5	16186.1
5°	17229.4	17013.8	16506.6	16291.0	15725.6	15469.2	15294.3	14857.2	14653.2	14612.4	14437.5
7.5°	16617.4	16483.3	15848.1	15265.2	14664.8	14151.9	13493.3	13044.4	12723.9	12636.4	12380.0
10°	16133.7	15836.4	14956.3	14070.3	13213.5	12321.7	11464.9	10794.6	10468.2	10089.3	9961.1
12.5°	15655.6	15206.9	14017.9	12881.3	11773.8	10648.9	9611.4	8795.4	8084.3	7915.2	7857.0
15°	15358.4	14577.4	13178.6	11808.8	10235.1	8766.2	7728.8	7192.5	6755.3	6574.7	6702.9
17.5°	14967.9	14058.7	12374.1	10549.8	8818.7	7466.5	6598.0	6265.8	6108.4	6125.8	6073.4
20°	14478.3	13569.0	11319.2	9407.4	7553.9	6475.6	5980.2	5857.7	5881.1	5921.9	5904.4
22.5°	14128.5	12974.5	10555.6	8241.6	6528.1	5927.7	5723.7	5636.3	5712.1	5747.1	5717.9
25°	13860.4	12467.4	9628.9	7210.0	5933.5	5618.8	5525.5	5519.7	5636.3	5682.9	5653.8
27.5°	13615.6	11995.3	8708.0	6423.1	5537.2	5379.8	5350.7	5420.6	5496.4	5543.0	5583.8
30°	13470.0	11633.9	7845.4	5764.5	5339.0	5263.2	5210.8	5274.9	5315.7	5362.3	5339.0
32.5°	13609.8	11377.5	7011.8	5391.5	5175.9	5100.1	5170.0	5129.2	5199.1	5239.9	5175.9
35°	14047.0	11150.1	6417.3	5193.3	4989.3	5018.4	5030.1	5012.6	5041.8	5006.8	5082.6
37.5°	14478.3	11068.6	5869.4	5024.3	4901.9	4901.9	4890.2	4855.3	4913.5	4901.9	4936.8
40°	15026.1	11121.0	5403.2	4843.6	4820.3	4808.6	4762.0	4756.2	4732.8	4738.7	4750.3
42.5°	15504.2	11237.6	5135.0	4727.0	4744.5	4767.8	4680.4	4610.4	4639.5	4581.3	4581.3
45°	16011.2	11342.5	4896.0	4645.4	4627.9	4622.1	4552.2	4511.4	4488.0	4493.9	4546.4
47.5°	16809.7	11494.0	4715.3	4534.7	4546.4	4458.9	4441.4	4388.9	4412.3	4447.2	4453.1
50°	17375.1	11814.6	4575.5	4406.4	4447.2	4388.9	4284.1	4260.8	4260.8	4319.0	4307.3
52.5°	17771.5	12263.4	4441.4	4266.6	4284.1	4237.4	4202.5	4150.0	4115.0	4196.6	4237.4
55°	18983.8	13009.5	4406.4	4150.0	4144.1	4097.5	4033.4	3981.0	3963.5	3975.2	4056.7
57.5°	18867.2	12776.3	4295.7	3946.0	3934.3	3870.2	3806.1	3788.6	3782.7	3794.4	3817.7
60°	15317.6	9436.5	3835.2	3712.8	3695.4	3683.7	3619.6	3549.6	3514.6	3549.6	3520.5
62.5°	10136.0	6318.3	3380.6	3433.0	3444.7	3415.6	3310.7	3240.7	3252.4	3293.2	3229.0
65°	4977.6	3712.8	3065.9	3205.7	3217.4	3135.8	3036.7	2955.1	2914.3	2949.3	2920.1
67.5°	2844.3	2838.5	2809.4	2955.1	2949.3	2867.6	2710.3	2640.4	2570.4	2582.0	2564.6
70°	2413.1	2459.7	2518.0	2605.4	2599.5	2506.3	2319.8	2267.3	2168.3	2156.6	2127.5
72.5°	1900.2	1981.7	2110.0	2174.1	2121.6	2005.0	1882.7	1795.2	1707.8	1655.3	1672.8
75°	1410.5	1527.1	1597.1	1637.8	1556.3	1492.1	1393.0	1288.2	1183.2	1136.6	1119.1
77.5°	1025.9	1060.8	1124.9	1154.1	1101.6	1037.5	979.2	874.3	775.2	711.1	693.6
80°	717.0	740.2	786.8	786.8	786.8	757.7	682.0	577.0	512.9	454.6	443.0
82.5°	501.2	524.6	571.2	547.9	542.0	507.1	460.4	378.9	308.9	268.1	256.4
85°	174.8	192.3	233.1	279.8	297.3	291.4	262.3	209.8	163.2	134.1	122.4
87.5°	40.8	40.8	46.6	40.8	40.8	46.6	40.8	40.8	40.8	29.2	23.3
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)