

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: P652333

Luminaire Tested: **GALN-SA4B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11070.9 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

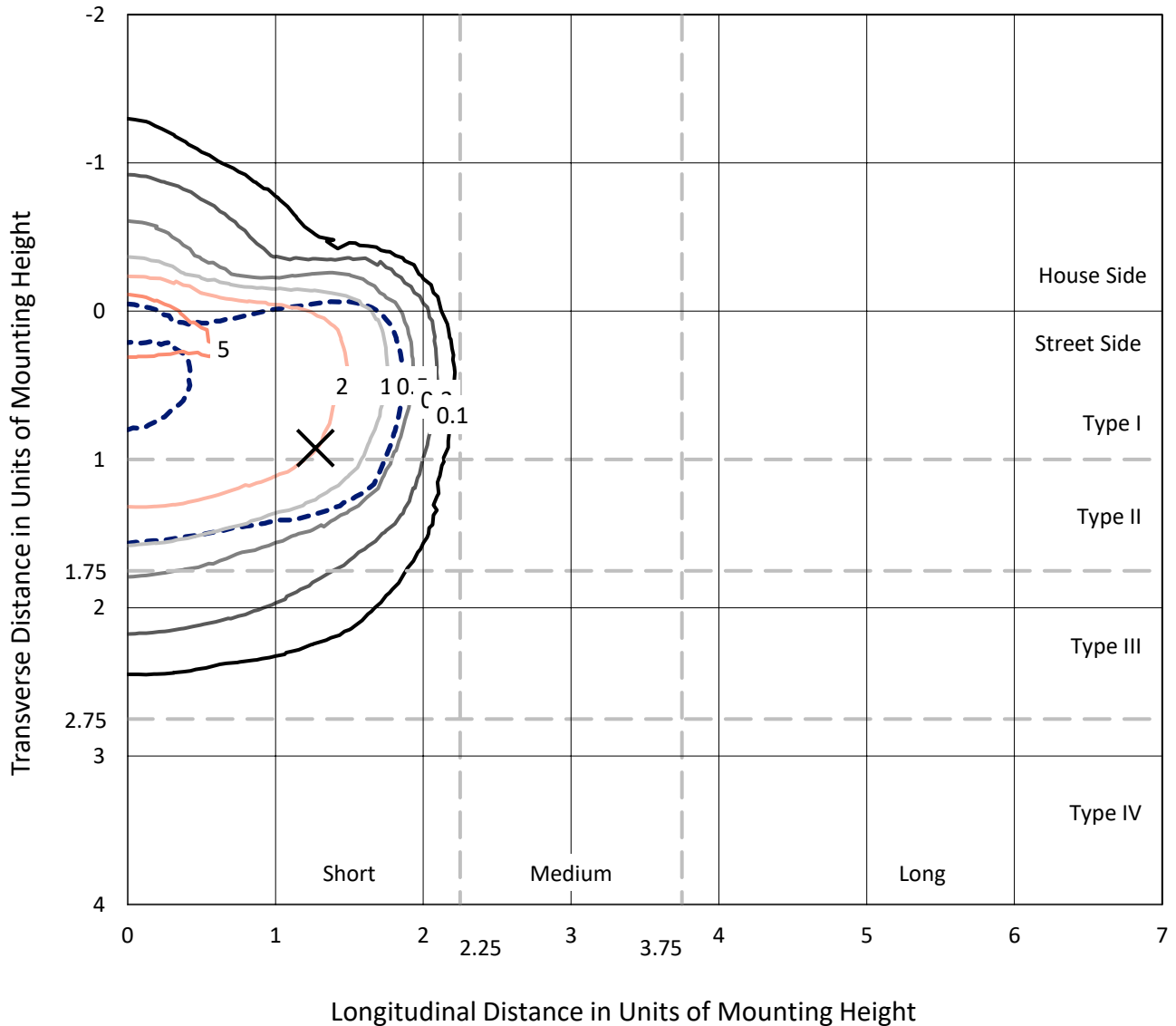
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652333
 CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

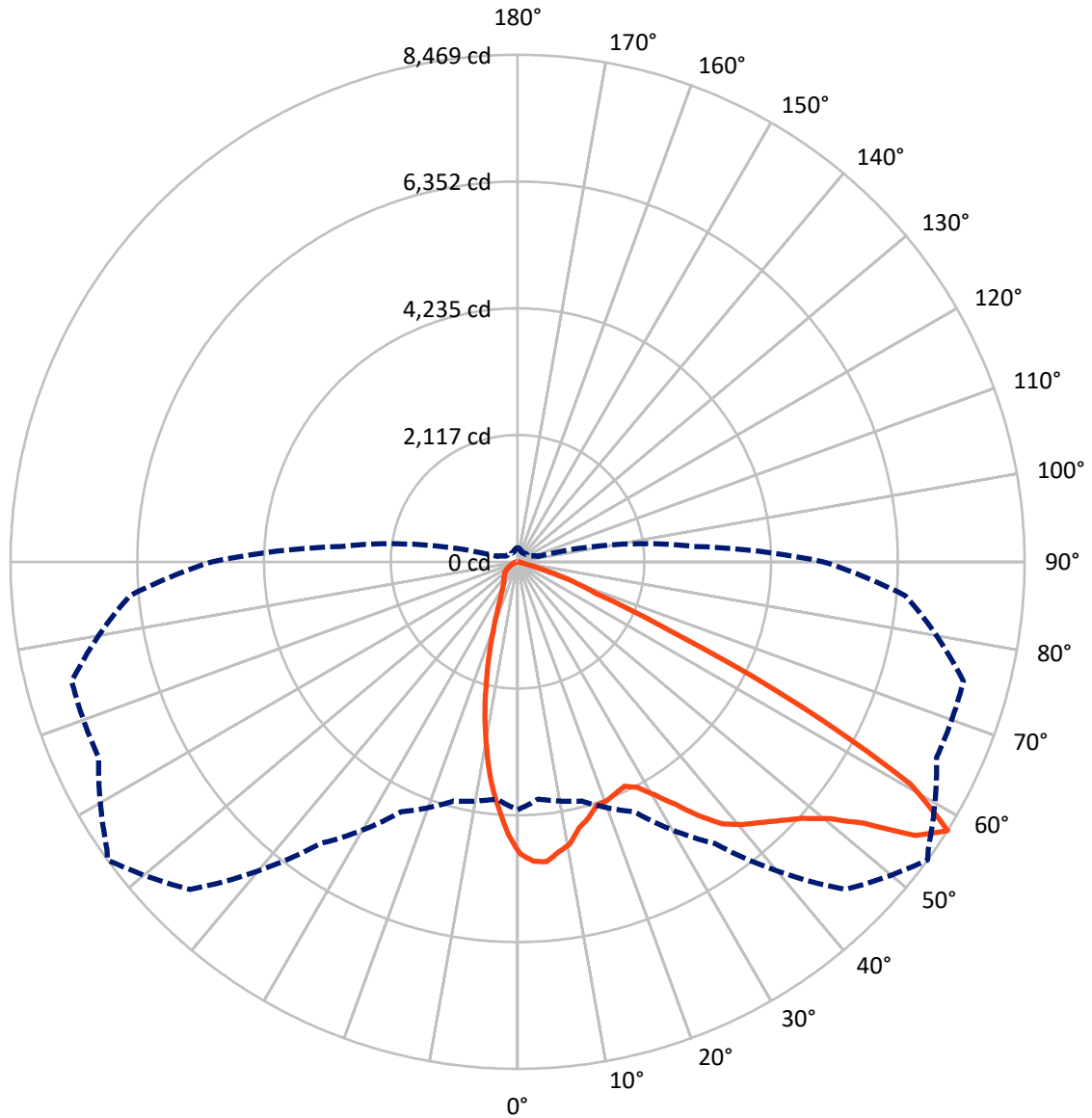
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P652333
CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652333
 CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.5	0.0	1564.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9506.4	0.0	9506.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	11070.9	0.0	11070.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.1	3.7
10°-20°	871.3	7.9
20°-30°	1154.6	10.4
30°-40°	1678.0	15.2
40°-50°	2488.3	22.5
50°-60°	3111.5	28.1
60°-70°	1227.3	11.1
70°-80°	122.2	1.1
80°-90°	9.5	0.1
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°	11070.9	100.0
0°-180°	11070.9	100.0



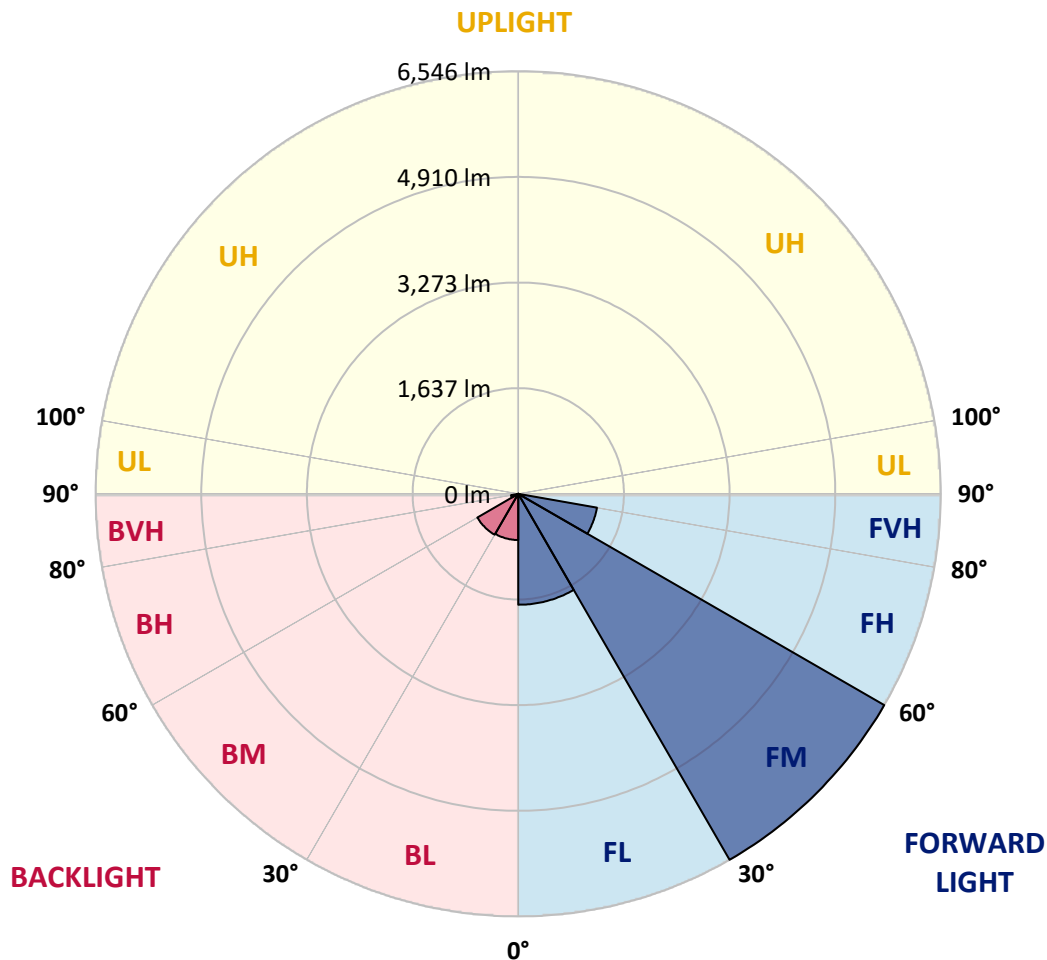
REPORT NUMBER: P652333
 CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.5	15.5			
FM (30°-60°)	6546.2	59.1			
FH (60°-80°)	1237.4	11.2			G1/1800
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	715.5	6.5	B2/1000		
BM (30°-60°)	731.6	6.6	B1/1000		
BH (60°-80°)	112.2	1.0	B1/500		G1/500
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P652333

CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9
2.5°	5161.0	5107.5	5111.6	5093.0	5068.4	5086.9	5006.6	5025.1	5023.0	4914.0	4841.9
5°	5031.3	5088.9	5029.3	5078.6	5031.3	5082.8	5033.4	4996.3	4936.6	4856.3	4722.5
7.5°	4811.0	4755.4	4771.9	4833.6	4844.0	4959.2	4897.5	4944.8	4920.1	4761.6	4578.4
10°	4368.4	4356.0	4438.4	4520.7	4621.6	4745.2	4792.5	4765.7	4747.2	4687.5	4442.5
12.5°	4028.7	4063.7	4061.7	4197.5	4368.4	4438.4	4561.9	4557.8	4660.7	4549.6	4314.9
15°	3705.5	3724.0	3810.5	3894.9	4084.3	4284.0	4436.4	4457.0	4580.4	4502.2	4216.1
17.5°	3507.9	3481.2	3549.1	3649.9	3843.5	4104.9	4273.7	4323.2	4491.9	4475.5	4102.8
20°	3312.4	3312.4	3368.0	3487.3	3664.3	3958.8	4259.3	4244.9	4491.9	4444.6	3981.4
22.5°	3246.4	3279.4	3293.8	3384.4	3594.3	3847.6	4197.5	4224.3	4526.9	4430.1	3927.9
25°	3337.0	3293.8	3297.9	3370.0	3567.6	3794.1	4152.3	4212.0	4590.8	4502.2	3884.7
27.5°	3351.5	3394.7	3407.1	3456.4	3588.2	3810.5	4265.5	4386.9	4749.3	4671.0	3897.0
30°	3477.0	3520.3	3518.2	3602.6	3693.2	3944.4	4518.7	4543.4	5076.6	4883.1	3973.1
32.5°	3629.3	3674.7	3689.0	3787.9	3859.9	4189.3	4827.5	4891.3	5391.6	5216.6	4172.9
35°	3818.7	3802.2	3868.2	3967.0	4121.4	4547.5	5204.2	5311.3	5731.2	5648.9	4378.7
37.5°	4055.5	4034.9	4098.7	4259.3	4469.2	4971.6	5552.1	5622.1	5978.2	6050.3	4759.6
40°	4222.2	4230.5	4424.0	4640.1	4862.5	5375.1	5772.4	5840.3	6151.2	6425.0	5047.8
42.5°	4500.2	4551.7	4784.3	5047.8	5280.4	5677.7	5951.5	6017.4	6231.5	6725.6	5436.8
45°	4903.6	4881.0	5138.3	5432.7	5690.0	5992.6	6163.5	6140.9	6278.8	7024.0	5681.8
47.5°	5422.4	5426.6	5597.4	5848.6	6116.2	6266.5	6400.3	6320.0	6377.6	7339.0	6009.1
50°	5776.5	5807.4	5945.3	6202.6	6336.4	6567.0	6737.9	6688.5	6670.0	7528.4	6215.0
52.5°	5867.1	5959.7	6033.8	6355.0	6667.9	7032.3	7250.5	7355.5	7026.1	7592.2	6476.5
55°	5183.6	5266.0	5527.4	5968.0	6793.5	7769.2	8069.8	8071.9	7491.4	7876.3	6659.6
57.5°	4144.0	3977.3	4137.8	4605.1	5743.6	7738.4	8469.2	8372.4	7724.0	7709.5	6501.2
60°	2865.6	2824.4	2834.8	3020.0	3975.2	6155.3	7547.0	7672.5	7112.6	6682.3	5146.6
62.5°	2270.7	2235.6	2190.4	2169.8	2468.3	3835.2	5323.6	5500.6	4973.7	4333.4	3050.9
65°	1778.6	1758.1	1764.2	1846.6	1844.6	2176.0	2910.9	2838.9	2272.7	1679.8	959.3
67.5°	1200.2	1231.1	1255.8	1504.9	1632.5	1515.1	1406.1	1364.9	739.1	310.8	212.0
70°	675.2	679.4	706.1	940.8	1239.3	1175.5	969.6	969.6	368.5	113.2	121.4
72.5°	368.5	356.2	331.4	405.5	551.7	559.9	432.3	376.8	109.1	74.1	68.0
75°	179.1	177.0	152.3	125.6	119.4	98.8	76.2	70.0	49.4	47.3	41.2
77.5°	37.1	35.0	18.5	18.5	20.6	22.6	28.8	28.8	35.0	35.0	28.8
80°	0.0	0.0	2.0	8.2	14.4	20.6	24.7	24.7	28.8	28.8	22.6
82.5°	0.0	0.0	2.0	6.1	12.4	18.5	22.6	24.7	28.8	30.9	24.7
85°	0.0	0.0	0.0	4.1	10.3	14.4	12.4	12.4	10.3	8.2	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P652333

CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9	4876.9
2.5°	4804.8	4800.7	4706.0	4652.5	4555.8	4471.3	4403.4	4354.0	4354.0	4323.2	4294.3
5°	4669.0	4634.0	4432.2	4302.6	4119.3	3983.5	3890.8	3818.7	3705.5	3736.4	3615.0
7.5°	4500.2	4411.6	4144.0	3946.4	3693.2	3499.7	3302.0	3127.1	2958.2	2882.1	2923.2
10°	4319.0	4164.6	3804.3	3491.4	3176.5	2822.4	2591.8	2311.8	2138.9	2128.7	2083.3
12.5°	4127.5	3952.5	3514.1	3081.8	2668.0	2241.9	1889.8	1628.3	1511.0	1381.3	1406.1
15°	3983.5	3724.0	3190.8	2670.0	2120.4	1690.2	1336.0	1134.3	1023.2	992.3	982.0
17.5°	3827.0	3549.1	2861.5	2231.6	1663.4	1216.7	961.3	864.6	821.4	821.4	815.2
20°	3664.3	3351.5	2534.2	1824.0	1247.5	907.9	769.9	739.1	737.0	734.9	734.9
22.5°	3557.3	3125.0	2237.7	1449.3	940.8	726.7	669.0	656.7	665.0	689.6	689.6
25°	3444.1	2906.7	1910.4	1117.9	728.7	623.8	590.8	599.0	619.6	642.3	634.0
27.5°	3328.8	2764.7	1601.6	877.0	597.0	545.6	533.2	551.7	574.3	594.9	588.8
30°	3302.0	2612.4	1309.3	665.0	512.6	475.5	483.7	500.2	522.8	531.1	539.3
32.5°	3343.2	2493.0	1072.5	545.6	446.7	436.4	436.4	444.6	459.1	477.6	471.5
35°	3460.5	2425.0	848.1	473.5	409.7	399.4	397.3	405.5	413.8	420.0	413.8
37.5°	3639.7	2371.5	693.7	420.0	384.9	368.5	364.4	362.3	370.5	372.6	376.8
40°	3868.2	2400.4	588.8	387.0	360.3	341.7	329.4	329.4	329.4	335.6	337.6
42.5°	4115.2	2439.5	508.5	368.5	337.6	315.0	302.6	298.5	302.6	310.8	308.8
45°	4374.5	2515.7	457.0	339.7	317.1	288.2	271.7	267.6	278.0	294.3	292.3
47.5°	4617.5	2624.8	417.9	321.2	296.5	269.7	249.1	245.0	263.5	286.1	288.2
50°	4860.4	2814.2	403.5	306.7	282.1	251.1	232.6	228.5	249.1	278.0	284.1
52.5°	5140.4	3017.9	393.2	288.2	265.6	236.7	216.1	212.0	234.7	271.7	273.8
55°	5323.6	3190.8	384.9	255.2	234.7	214.1	197.6	195.5	220.3	253.2	261.5
57.5°	5109.5	2950.0	356.2	222.4	199.7	189.4	175.0	175.0	195.5	226.5	232.6
60°	3874.3	1941.3	253.2	179.1	168.8	162.6	156.4	156.4	172.9	195.5	197.6
62.5°	2268.6	1045.8	162.6	144.1	144.1	137.9	127.7	127.7	144.1	156.4	158.5
65°	673.1	335.6	131.8	123.5	121.4	111.2	100.8	98.8	111.2	117.3	115.3
67.5°	193.5	154.4	109.1	102.9	100.8	84.4	78.2	76.2	78.2	74.1	72.1
70°	115.3	105.0	84.4	86.5	76.2	61.7	55.6	53.5	49.4	43.2	39.1
72.5°	63.8	63.8	61.7	65.9	53.5	41.2	35.0	28.8	22.6	18.5	16.5
75°	39.1	41.2	43.2	45.3	35.0	26.7	22.6	14.4	8.2	4.1	4.1
77.5°	26.7	28.8	30.9	33.0	28.8	24.7	18.5	10.3	2.0	0.0	0.0
80°	20.6	22.6	26.7	28.8	30.9	33.0	24.7	10.3	2.0	0.0	0.0
82.5°	22.6	24.7	30.9	28.8	28.8	28.8	22.6	10.3	2.0	0.0	0.0
85°	4.1	6.1	10.3	10.3	14.4	18.5	14.4	4.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)