

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: P652639

Luminaire Tested: **GALN-SA9B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31239 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

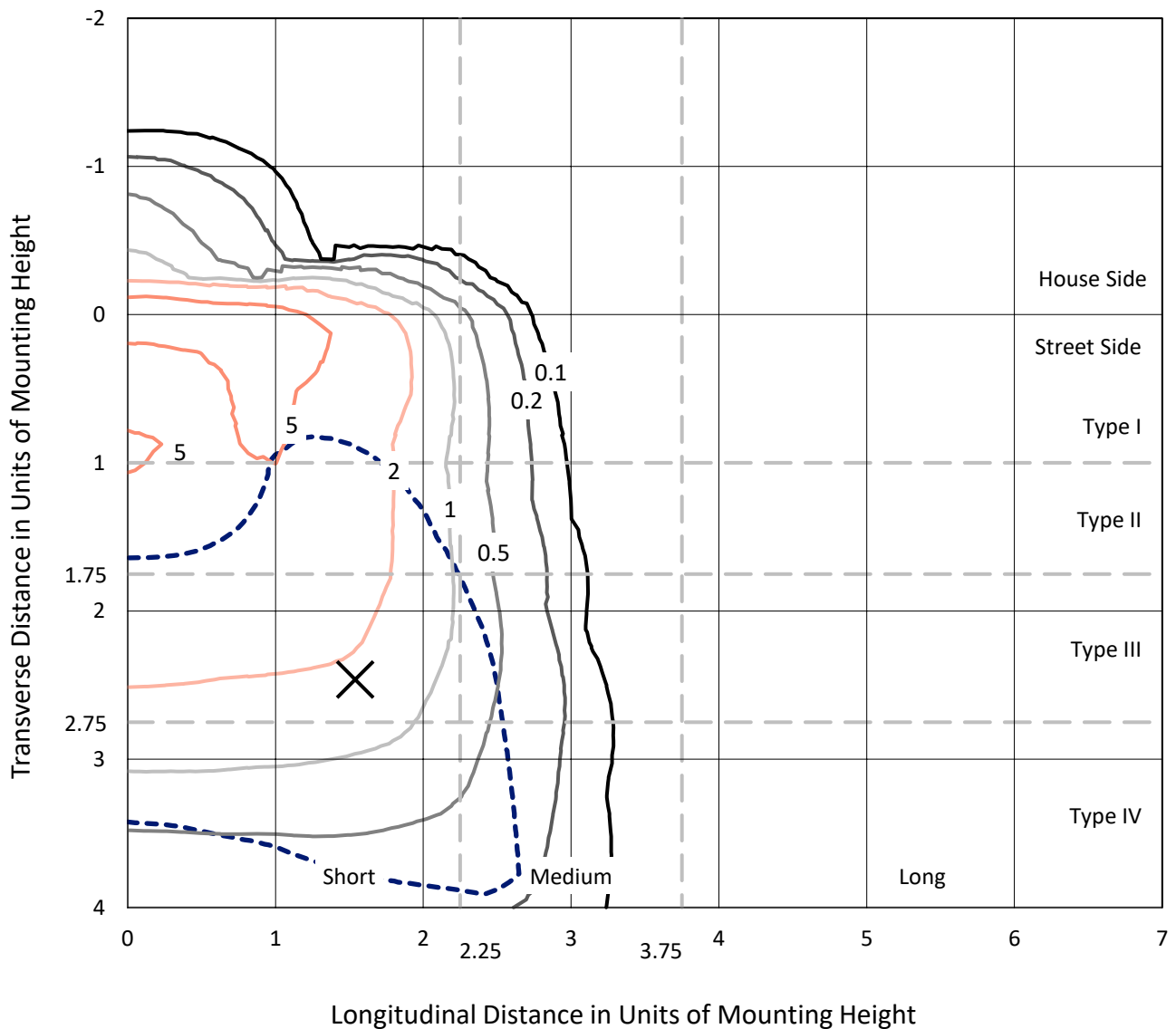
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652639
 CATALOG NUMBER: GALN-SA9B-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

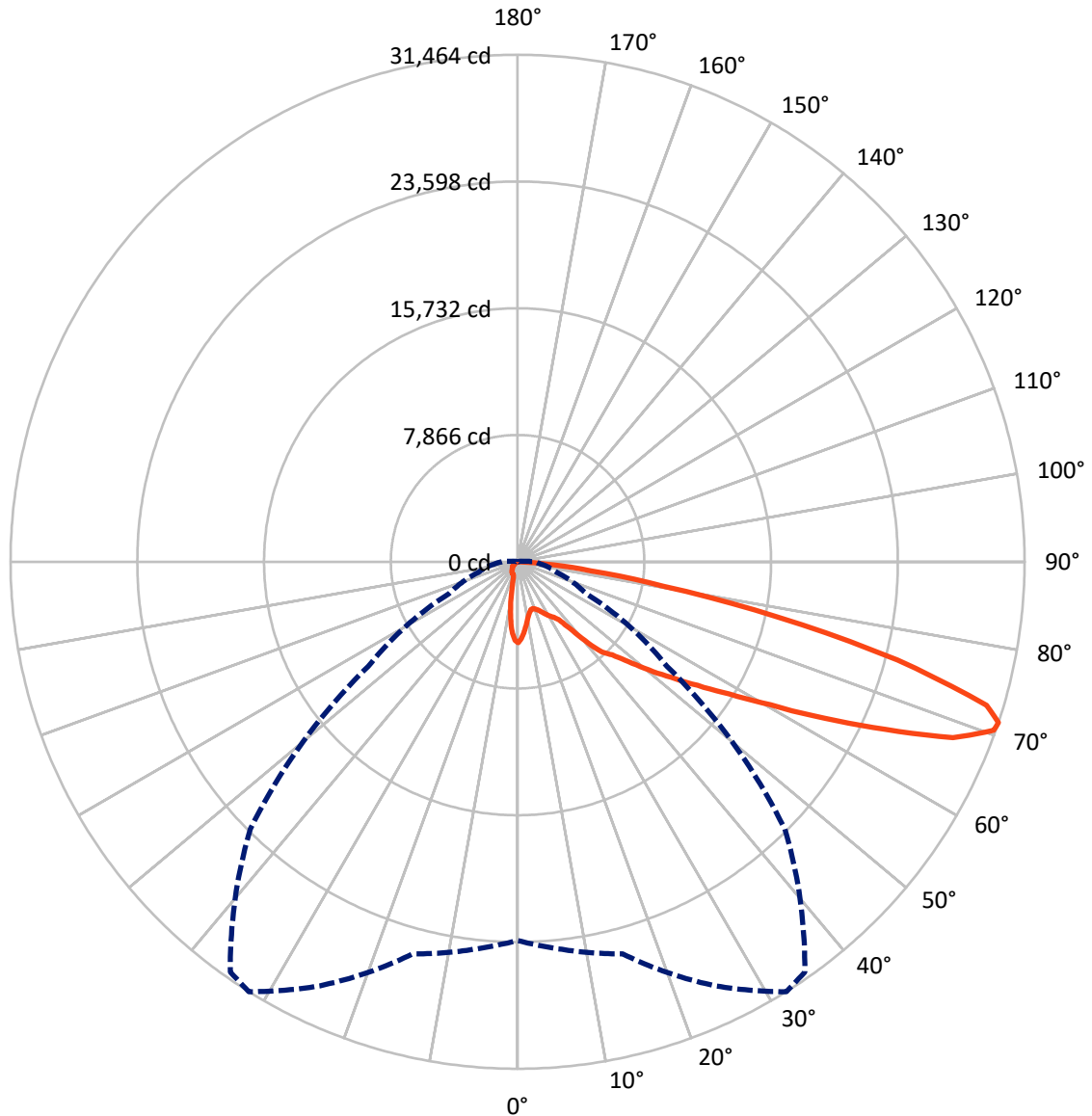
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P652639
CATALOG NUMBER: GALN-SA9B-840-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P652639
 CATALOG NUMBER: GALN-SA9B-840-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2616.6	0.0	2616.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	28622.3	0.0	28622.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	31239.0	0.0	31239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	1.3
10°-20°	886.6	2.8
20°-30°	1379.2	4.4
30°-40°	2297.8	7.4
40°-50°	4274.3	13.7
50°-60°	6862.5	22.0
60°-70°	9230.3	29.5
70°-80°	5476.5	17.5
80°-90°	423.3	1.4
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°	31239.0	100.0
0°-180°	31239.0	100.0

Coefficient of Utilization

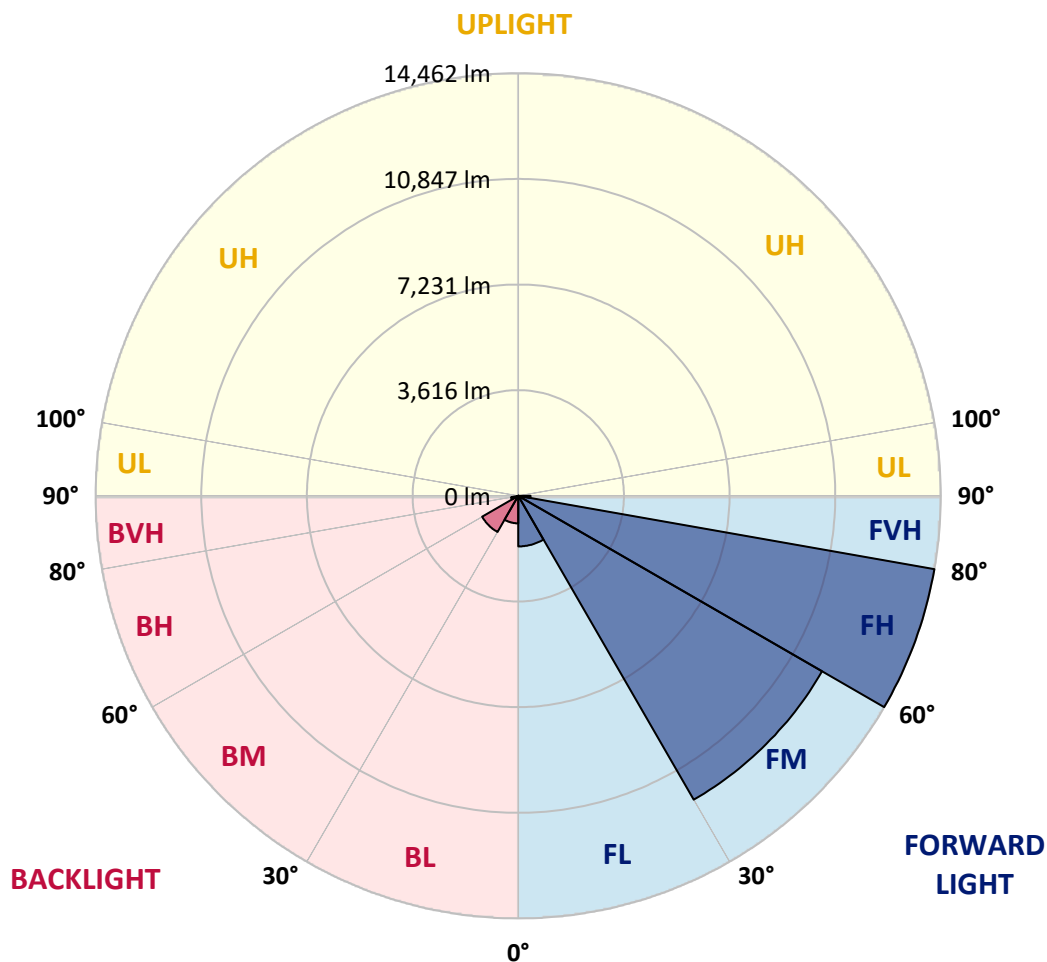


REPORT NUMBER: P652639
 CATALOG NUMBER: GALN-SA9B-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.5	5.5			
FM (30°-60°)	12007.1	38.4			
FH (60°-80°)	14462.1	46.3			G5
FVH (80°-90°)	421.7	1.3			G3/500
BL (0°-30°)	942.8	3.0	B2/1000		
BM (30°-60°)	1427.4	4.6	B2/2500		
BH (60°-80°)	244.7	0.8	B1/500		G1/500
BVH (80°-90°)	1.6	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-G5
 Type IV Short





REPORT NUMBER: P652639

CATALOG NUMBER: GALN-SA9B-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7
2.5°	4659.2	4707.2	4700.0	4716.7	4757.5	4774.4	4819.9	4870.2	4939.8	4987.7	5018.9
5°	4172.5	4208.4	4213.2	4297.1	4337.9	4383.5	4517.8	4664.0	4827.1	4956.6	5042.9
7.5°	3652.0	3671.3	3709.7	3819.9	3923.0	3968.6	4172.5	4426.6	4683.2	4925.4	5081.2
10°	3222.9	3244.4	3314.0	3431.4	3527.4	3587.4	3870.3	4189.2	4548.9	4908.6	5136.4
12.5°	2978.2	2990.3	3016.6	3122.1	3244.4	3309.2	3613.7	3978.2	4441.0	4915.8	5229.9
15°	2961.5	2956.7	2925.5	2968.6	3079.0	3146.1	3443.5	3834.3	4345.1	4939.8	5340.3
17.5°	3050.2	3038.2	2963.9	2963.9	3055.0	3110.2	3371.5	3757.6	4297.1	4995.0	5496.1
20°	3186.9	3167.7	3045.4	3035.8	3124.6	3182.1	3414.7	3762.4	4306.8	5098.1	5704.8
22.5°	3359.5	3337.9	3153.3	3158.1	3254.0	3311.6	3539.3	3848.8	4366.6	5225.1	5927.7
25°	3584.9	3561.0	3342.7	3333.1	3433.9	3484.3	3724.0	4002.2	4450.6	5383.4	6220.3
27.5°	3884.7	3834.3	3573.0	3558.5	3666.5	3731.2	3947.1	4208.4	4599.3	5601.6	6613.5
30°	4131.7	4076.5	3827.1	3788.8	3903.8	3954.2	4177.2	4486.6	4891.8	5982.9	7157.9
32.5°	4455.4	4373.9	4081.3	3980.6	4102.9	4167.7	4510.5	5004.5	5325.9	6385.7	7805.3
35°	5184.3	5134.1	4776.7	4424.2	4417.0	4498.6	5002.1	5527.3	5771.9	7014.0	8687.8
37.5°	6227.5	6191.5	5812.7	5340.3	5203.5	5165.2	5599.2	6102.8	6484.0	7877.3	9714.1
40°	7438.5	7354.5	7006.8	6606.4	6428.9	6316.2	6304.2	6958.9	7414.5	9049.8	10783.6
42.5°	8306.5	8153.1	7731.0	7702.2	7663.9	7546.4	7205.9	8210.6	8615.9	10311.2	11927.4
45°	9217.7	8985.2	8356.8	8248.9	8234.6	8227.3	8567.9	9692.5	9925.1	11678.0	13102.4
47.5°	9925.1	9740.5	9224.9	9177.0	9236.9	9399.9	10368.8	11265.6	11217.6	12896.1	14088.0
50°	10867.5	10728.5	10155.3	10246.5	10555.8	10822.0	12399.8	12980.1	12279.9	13855.4	14805.0
52.5°	11980.1	11723.6	11191.3	11438.3	11913.0	12356.6	14555.6	14481.3	13025.7	14577.1	15339.7
55°	12944.2	12761.9	12579.7	12836.3	13546.1	14100.0	16502.7	15605.8	13567.6	15157.4	15574.7
57.5°	14574.8	14531.6	14344.5	14605.9	15466.8	16042.3	18246.0	16478.7	13915.4	15459.6	15299.0
60°	16987.1	16917.6	16569.9	16903.2	18025.4	18929.4	19852.6	17262.9	13994.5	15342.1	14505.2
62.5°	19888.6	19651.2	19353.8	19845.4	21384.9	21783.0	21365.8	17728.0	13699.5	14406.9	12591.6
65°	22598.3	22353.7	22360.9	23396.8	25073.0	25344.0	23130.6	17658.6	12836.3	12064.1	9287.2
67.5°	24672.5	24631.8	24924.3	26945.8	29137.5	28950.5	24708.5	16617.8	10277.6	7819.7	4935.0
70°	24778.0	24857.2	25696.4	29108.8	31334.1	31036.7	24574.2	13507.6	6407.3	3597.0	1944.7
71°	23502.3	24034.7	25195.3	29041.6	31463.5	31077.5	23442.4	11313.6	4700.0	2508.3	1402.8
72.5°	20027.7	20308.3	22816.5	27331.8	30439.6	29614.7	20572.0	7930.0	3009.4	1534.7	805.7
75°	11030.6	11721.2	15279.8	21442.5	24346.4	23622.3	13407.0	3767.2	1501.1	839.3	333.3
77.5°	5251.5	5117.2	7455.2	12752.3	16507.5	16469.1	6755.0	1673.8	875.2	568.3	167.9
80°	1501.1	1688.1	2853.6	6062.0	9165.0	9265.7	2594.6	808.1	606.7	443.6	86.3
82.5°	453.2	462.8	1047.9	2680.9	4558.5	4297.1	973.5	412.4	436.4	352.5	50.4
85°	79.1	98.3	309.3	944.8	1738.5	1318.9	244.6	196.6	287.8	232.6	28.8
87.5°	4.8	7.2	103.1	107.9	153.5	88.7	43.1	28.8	62.3	62.3	16.8
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: P652639

CATALOG NUMBER: GALN-SA9B-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7	5023.7
2.5°	5040.5	5054.9	5045.3	5023.7	4987.7	4944.6	4887.1	4839.0	4798.3	4776.7	4803.1
5°	5071.7	5090.8	5042.9	4935.0	4771.9	4594.5	4393.0	4237.2	4114.8	4076.5	4062.1
7.5°	5119.6	5131.6	5002.1	4762.3	4417.0	3997.4	3630.5	3321.2	3081.3	3009.4	2903.9
10°	5182.0	5174.8	4930.2	4484.2	3877.5	3246.8	2678.5	2256.5	1937.6	1822.4	1812.9
12.5°	5277.9	5239.5	4839.0	4105.3	3234.8	2410.0	1707.3	1335.7	1134.3	1067.1	1052.7
15°	5397.8	5306.7	4695.2	3661.7	2477.1	1556.3	1052.7	940.0	913.6	908.8	904.0
17.5°	5539.2	5395.4	4505.7	3117.3	1741.0	1009.5	880.0	877.7	880.0	875.2	872.9
20°	5731.1	5489.0	4280.4	2472.3	1151.0	851.3	839.3	839.3	841.7	839.3	839.3
22.5°	5934.9	5599.2	4002.2	1887.2	868.1	808.1	805.7	810.5	815.3	812.9	812.9
25°	6186.7	5743.1	3635.3	1292.5	776.9	772.1	774.6	784.1	793.7	796.1	793.7
27.5°	6551.2	5920.6	3242.1	889.6	712.2	717.0	741.0	765.0	779.4	781.7	781.7
30°	6961.3	6117.2	2728.9	721.7	659.4	659.4	688.2	733.8	765.0	769.8	772.1
32.5°	7488.8	6345.0	2160.5	649.8	609.1	604.3	630.7	685.8	743.4	760.2	760.2
35°	8141.0	6613.5	1606.6	604.3	573.1	561.1	575.5	621.1	695.4	743.4	748.2
37.5°	8906.0	6867.8	1175.0	563.6	539.5	522.8	532.4	568.3	628.2	700.2	719.4
40°	9613.4	7093.2	877.7	529.9	505.9	494.0	501.2	518.0	568.3	635.5	647.5
42.5°	10385.5	7268.2	697.8	494.0	472.4	467.6	467.6	474.8	508.4	546.7	549.2
45°	11155.3	7330.6	585.1	450.8	436.4	441.2	438.8	434.0	448.4	443.6	443.6
47.5°	11704.4	7256.2	484.4	410.1	410.1	417.2	405.3	388.5	381.3	352.5	354.9
50°	12080.9	6985.3	398.0	362.1	381.3	390.9	366.9	340.5	314.1	283.0	275.8
52.5°	12236.7	6503.3	326.1	299.7	338.1	350.1	321.3	290.1	249.4	223.0	215.8
55°	12136.1	5908.5	271.0	244.6	285.4	299.7	271.0	235.0	189.5	160.6	155.8
57.5°	11692.4	5198.7	230.2	194.3	227.8	237.4	218.2	179.8	134.3	105.5	105.5
60°	10925.1	4465.0	187.0	153.5	170.2	184.7	165.4	129.5	91.1	64.8	60.0
62.5°	9368.8	3625.7	151.0	119.9	119.9	131.9	115.1	93.5	57.5	33.6	31.2
65°	6764.6	2486.7	119.9	88.7	86.3	86.3	71.9	62.3	33.6	14.4	9.6
67.5°	3676.1	1402.8	96.0	67.1	60.0	57.5	45.6	36.0	14.4	2.4	0.0
70°	1445.9	539.5	74.3	45.6	38.3	36.0	24.0	16.8	9.6	0.0	0.0
71°	980.8	371.7	64.8	38.3	31.2	26.4	19.2	14.4	7.2	0.0	0.0
72.5°	561.1	230.2	50.4	28.8	24.0	19.2	14.4	9.6	7.2	0.0	0.0
75°	244.6	117.5	31.2	21.6	16.8	12.0	9.6	7.2	2.4	0.0	0.0
77.5°	124.7	64.8	21.6	16.8	9.6	7.2	4.8	2.4	0.0	0.0	0.0
80°	69.6	33.6	14.4	9.6	7.2	4.8	2.4	2.4	0.0	0.0	0.0
82.5°	38.3	19.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.0	12.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	0.0	0.0	0.0	0.0	2.4	2.4	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)