

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: P648679

Luminaire Tested: **GALN-SA9B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648679
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-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 29084.5 lumens
Efficiency: N/A
Efficacy: 79.9 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

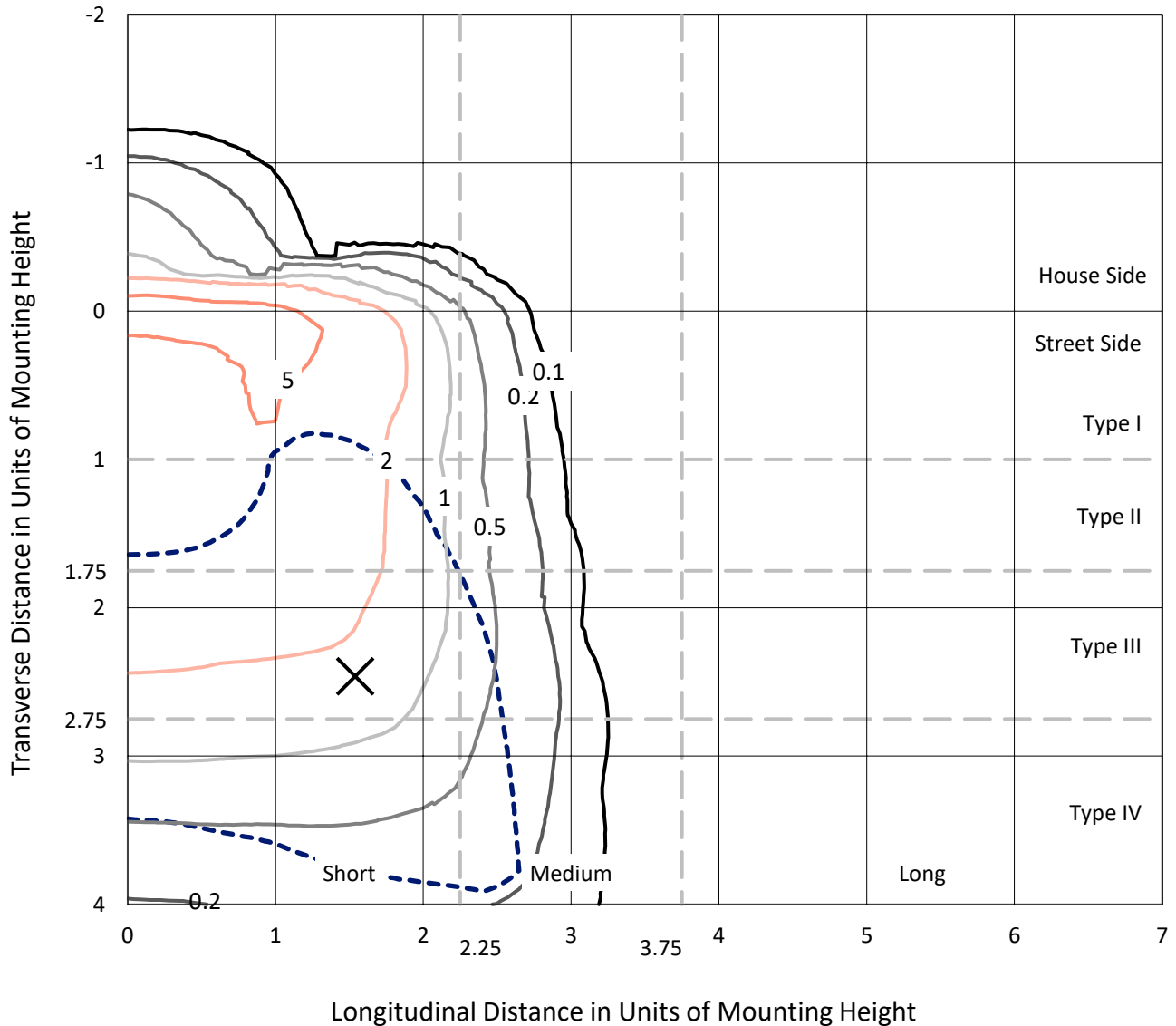
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

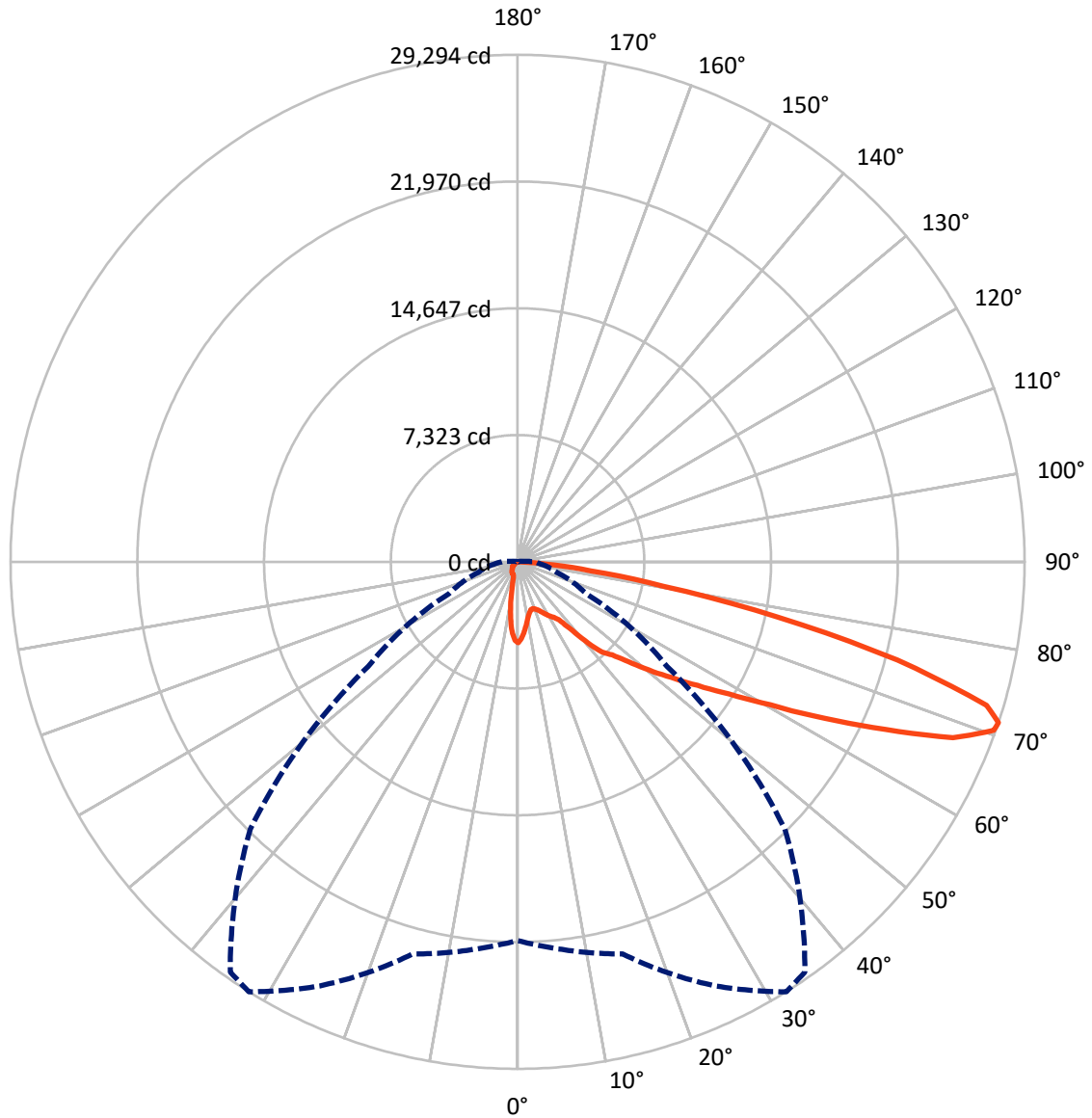
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2436.1	0.0	2436.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	26648.4	0.0	26648.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	29084.5	0.0	29084.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	1.3
10°-20°	825.4	2.8
20°-30°	1284.1	4.4
30°-40°	2139.3	7.4
40°-50°	3979.5	13.7
50°-60°	6389.2	22.0
60°-70°	8593.8	29.5
70°-80°	5098.8	17.5
80°-90°	394.1	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°	29084.5	100.0
0°-180°	29084.5	100.0

Coefficient of Utilization

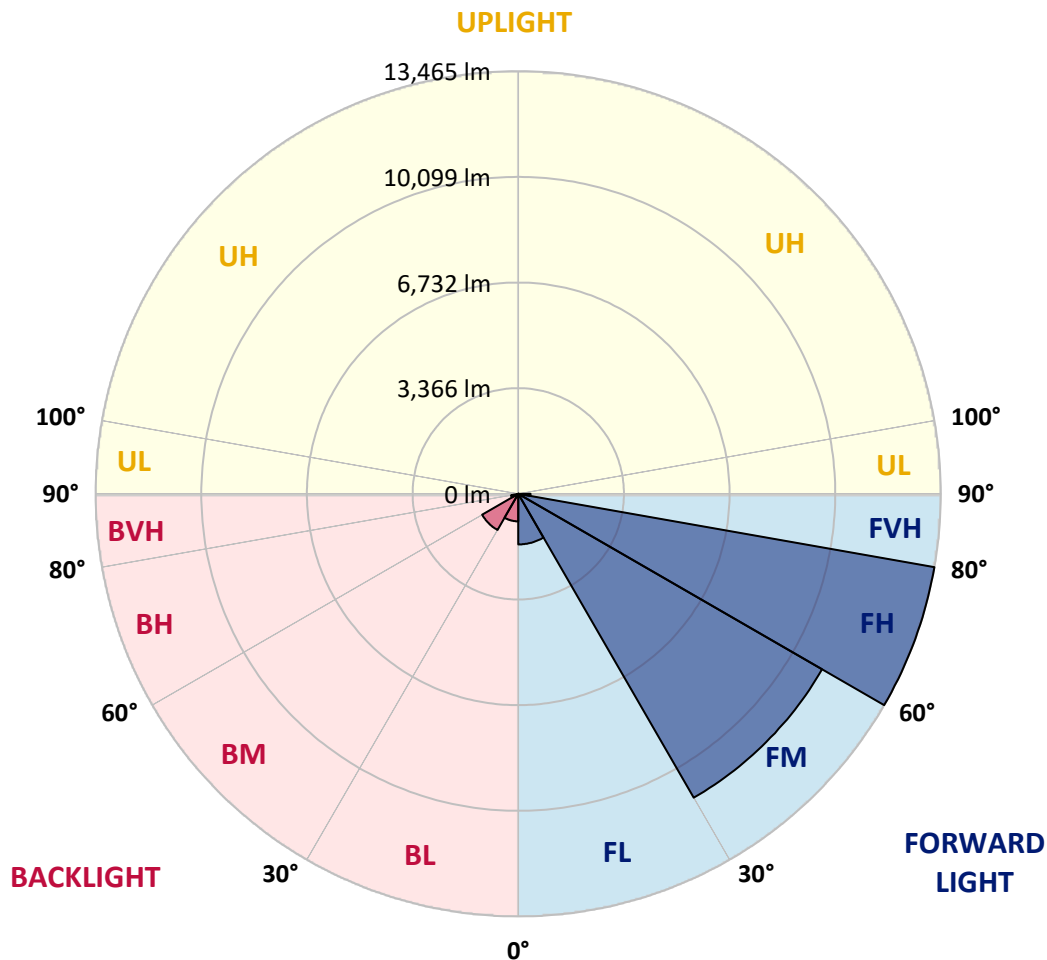


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.1	5.5			
FM (30°-60°)	11179.0	38.4			
FH (60°-80°)	13464.7	46.3			G5
FVH (80°-90°)	392.6	1.3			G3/500
BL (0°-30°)	877.8	3.0	B2/1000		
BM (30°-60°)	1329.0	4.6	B2/2500		
BH (60°-80°)	227.9	0.8	B1/500		G1/500
BVH (80°-90°)	1.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3
2.5°	4337.9	4382.5	4375.9	4391.5	4429.4	4445.1	4487.5	4534.4	4599.1	4643.7	4672.8
5°	3884.7	3918.2	3922.7	4000.7	4038.7	4081.2	4206.2	4342.4	4494.2	4614.8	4695.1
7.5°	3400.2	3418.1	3453.8	3556.5	3652.5	3694.9	3884.7	4121.3	4360.2	4585.7	4730.8
10°	3000.6	3020.7	3085.4	3194.8	3284.1	3340.0	3603.4	3900.3	4235.2	4570.1	4782.2
12.5°	2772.8	2784.0	2808.5	2906.8	3020.7	3080.9	3364.5	3703.8	4134.7	4576.8	4869.2
15°	2757.3	2752.8	2723.7	2763.9	2866.6	2929.1	3206.0	3569.9	4045.4	4599.1	4972.0
17.5°	2839.9	2828.7	2759.4	2759.4	2844.3	2895.7	3139.0	3498.4	4000.7	4650.5	5117.1
20°	2967.1	2949.2	2835.4	2826.5	2909.1	2962.6	3179.2	3502.9	4009.7	4746.5	5311.3
22.5°	3127.9	3107.7	2935.9	2940.3	3029.6	3083.2	3295.3	3583.3	4065.5	4864.8	5518.9
25°	3337.7	3315.4	3112.2	3103.3	3197.1	3244.0	3467.2	3726.1	4143.6	5012.1	5791.3
27.5°	3616.8	3569.9	3326.6	3313.1	3413.6	3473.9	3674.9	3918.2	4282.1	5215.3	6157.4
30°	3846.7	3795.4	3563.2	3527.5	3634.6	3681.5	3889.2	4177.1	4554.5	5570.3	6664.3
32.5°	4148.1	4072.2	3799.8	3706.1	3819.9	3880.2	4199.5	4659.4	4958.6	5945.3	7267.0
35°	4826.8	4780.0	4447.3	4119.1	4112.4	4188.3	4657.1	5146.1	5373.8	6530.3	8088.6
37.5°	5798.0	5764.5	5411.8	4972.0	4844.7	4809.0	5213.1	5681.9	6036.9	7334.0	9044.2
40°	6925.5	6847.3	6523.6	6150.8	5985.6	5880.6	5869.4	6478.9	6903.2	8425.7	10039.9
42.5°	7733.6	7590.8	7197.8	7171.0	7135.3	7025.9	6708.9	7644.4	8021.7	9600.0	11104.8
45°	8582.0	8365.5	7780.5	7680.1	7666.7	7659.9	7977.0	9024.1	9240.7	10872.7	12198.8
47.5°	9240.7	9068.7	8588.7	8544.1	8599.8	8751.7	9653.7	10488.7	10444.0	12006.8	13116.4
50°	10118.0	9988.6	9455.0	9539.8	9827.8	10075.6	11544.6	12084.9	11433.1	12899.8	13783.9
52.5°	11153.9	10915.1	10419.5	10649.4	11091.4	11504.5	13551.8	13482.6	12127.3	13571.8	14281.8
55°	12051.5	11881.8	11712.1	11951.0	12611.9	13127.5	15364.6	14529.6	12631.9	14112.1	14500.6
57.5°	13569.6	13529.4	13355.2	13598.6	14400.2	14936.0	16987.7	15342.3	12955.7	14393.4	14243.9
60°	15815.6	15750.8	15427.1	15737.4	16782.3	17623.9	18483.5	16072.3	13029.4	14284.0	13504.9
62.5°	18517.0	18296.0	18019.1	18476.8	19910.1	20280.7	19892.3	16505.4	12754.7	13413.3	11723.2
65°	21039.8	20812.1	20818.8	21783.2	23343.8	23596.1	21535.4	16440.7	11951.0	11232.1	8646.7
67.5°	22970.9	22933.1	23205.4	25087.5	27128.1	26953.9	23004.5	15471.8	9568.8	7280.4	4594.6
70°	23069.2	23142.9	23924.3	27101.3	29173.1	28896.2	22879.4	12576.1	5965.4	3348.9	1810.6
71°	21881.5	22377.1	23457.7	27038.7	29293.6	28934.2	21825.7	10533.3	4375.9	2335.3	1306.0
72.5°	18646.4	18907.7	21242.9	25446.9	28340.3	27572.3	19153.3	7383.1	2801.9	1428.8	750.1
75°	10269.8	10912.8	14226.0	19963.7	22667.4	21993.1	12482.4	3507.4	1397.6	781.4	310.3
77.5°	4889.4	4764.3	6941.1	11872.9	15369.0	15333.3	6289.1	1558.3	814.9	529.2	156.3
80°	1397.6	1571.7	2656.8	5643.9	8532.9	8626.7	2415.6	752.4	564.9	413.0	80.3
82.5°	422.0	430.9	975.6	2496.0	4244.1	4000.7	906.4	384.0	406.3	328.2	46.9
85°	73.7	91.5	288.0	879.6	1618.6	1227.9	227.7	183.1	267.9	216.6	26.8
87.5°	4.5	6.7	96.0	100.5	142.9	82.6	40.2	26.8	58.0	58.0	15.7
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°	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3	4677.3
2.5°	4692.9	4706.3	4697.4	4677.3	4643.7	4603.6	4550.0	4505.3	4467.4	4447.3	4471.9
5°	4721.9	4739.7	4695.1	4594.6	4442.8	4277.6	4090.1	3945.0	3831.1	3795.4	3782.0
7.5°	4766.5	4777.7	4657.1	4433.9	4112.4	3721.7	3380.1	3092.1	2868.8	2801.9	2703.6
10°	4824.6	4817.9	4590.2	4175.0	3610.1	3022.9	2493.8	2100.9	1804.0	1696.8	1687.8
12.5°	4913.9	4878.2	4505.3	3822.1	3011.7	2243.8	1589.6	1243.6	1056.0	993.5	980.1
15°	5025.5	4940.7	4371.4	3409.2	2306.2	1448.9	980.1	875.2	850.6	846.1	841.6
17.5°	5157.2	5023.3	4195.0	2902.3	1620.9	939.9	819.3	817.1	819.3	814.9	812.7
20°	5335.8	5110.4	3985.2	2301.8	1071.6	792.6	781.4	781.4	783.6	781.4	781.4
22.5°	5525.6	5213.1	3726.1	1757.1	808.2	752.4	750.1	754.6	759.0	756.8	756.8
25°	5760.1	5347.0	3384.6	1203.4	723.3	718.9	721.1	730.1	739.0	741.2	739.0
27.5°	6099.4	5512.2	3018.5	828.3	663.0	667.5	689.9	712.2	725.6	727.8	727.8
30°	6481.2	5695.3	2540.7	672.0	614.0	614.0	640.7	683.2	712.2	716.7	718.9
32.5°	6972.3	5907.4	2011.5	605.0	567.0	562.6	587.2	638.5	692.1	707.8	707.8
35°	7579.6	6157.4	1495.8	562.6	533.6	522.4	535.8	578.2	647.5	692.1	696.6
37.5°	8291.8	6394.1	1093.9	524.7	502.3	486.7	495.6	529.2	584.9	651.9	669.8
40°	8950.4	6604.0	817.1	493.4	471.1	459.9	466.6	482.2	529.2	591.6	602.8
42.5°	9669.3	6766.9	649.7	459.9	439.8	435.3	435.3	442.1	473.3	509.0	511.3
45°	10385.9	6825.0	544.7	419.7	406.3	410.8	408.6	404.1	417.5	413.0	413.0
47.5°	10897.2	6755.8	451.0	381.8	381.8	388.4	377.3	361.7	355.0	328.2	330.4
50°	11247.7	6503.5	370.6	337.1	355.0	363.9	341.6	317.0	292.5	263.5	256.7
52.5°	11392.8	6054.8	303.6	279.1	314.8	326.0	299.2	270.1	232.2	207.7	200.9
55°	11299.1	5501.0	252.3	227.7	265.7	279.1	252.3	218.8	176.4	149.6	145.1
57.5°	10886.0	4840.2	214.3	180.9	212.1	221.0	203.2	167.4	125.0	98.3	98.3
60°	10171.6	4157.0	174.1	142.9	158.5	171.9	154.0	120.6	84.8	60.3	55.8
62.5°	8722.7	3375.7	140.6	111.7	111.7	122.8	107.2	87.1	53.6	31.2	29.0
65°	6298.1	2315.2	111.7	82.6	80.3	80.3	66.9	58.0	31.2	13.4	8.9
67.5°	3422.6	1306.0	89.3	62.5	55.8	53.6	42.4	33.5	13.4	2.3	0.0
70°	1346.2	502.3	69.2	42.4	35.7	33.5	22.3	15.7	8.9	0.0	0.0
71°	913.1	346.1	60.3	35.7	29.0	24.6	17.9	13.4	6.7	0.0	0.0
72.5°	522.4	214.3	46.9	26.8	22.3	17.9	13.4	8.9	6.7	0.0	0.0
75°	227.7	109.4	29.0	20.1	15.7	11.2	8.9	6.7	2.3	0.0	0.0
77.5°	116.1	60.3	20.1	15.7	8.9	6.7	4.5	2.3	0.0	0.0	0.0
80°	64.8	31.2	13.4	8.9	6.7	4.5	2.3	2.3	0.0	0.0	0.0
82.5°	35.7	17.9	6.7	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.3	11.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	4.5	0.0	0.0	0.0	0.0	2.3	2.3	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)