

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: P459408

Luminaire Tested: **GALN-SA8C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459408
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-SA8C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 38082 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

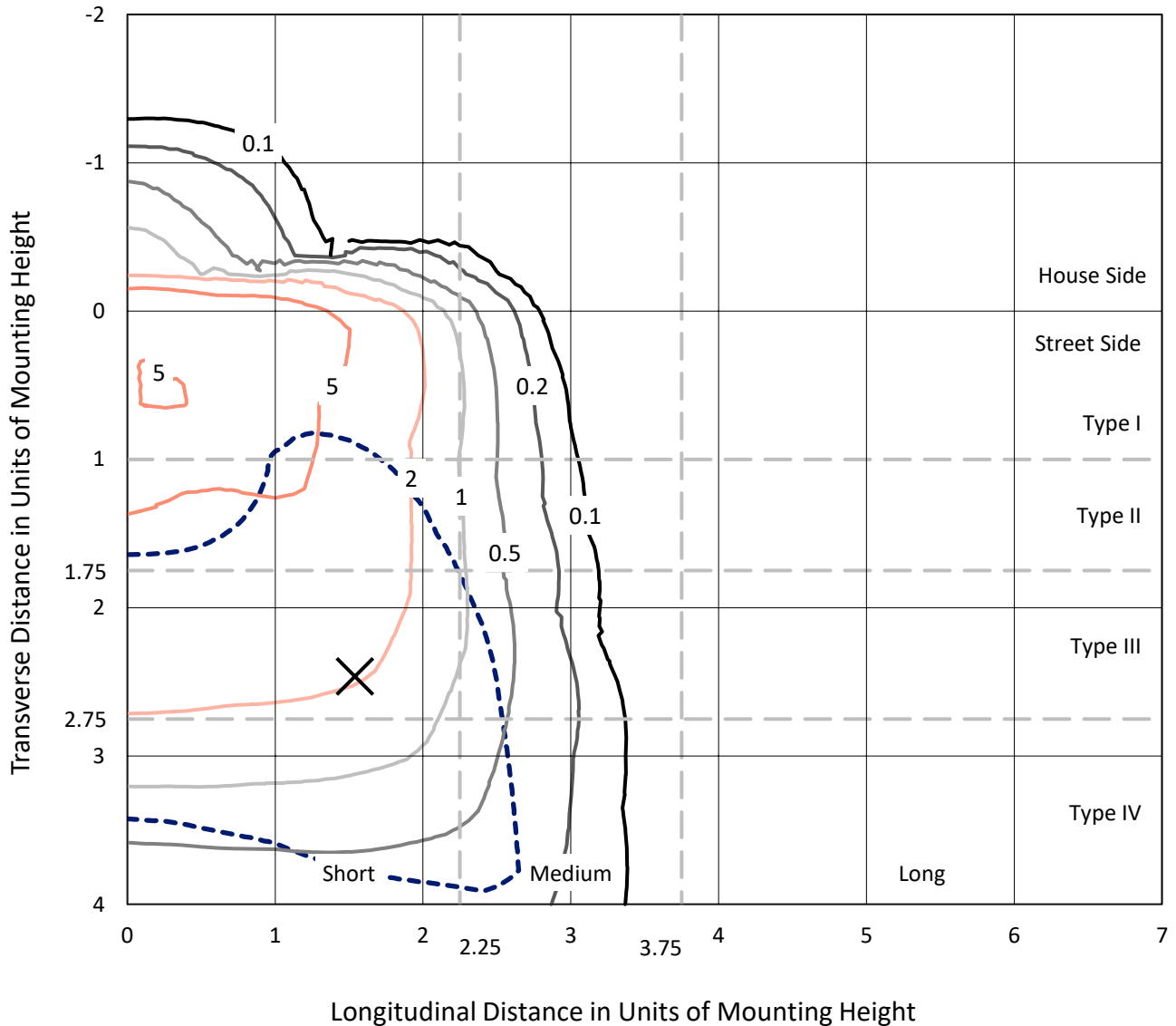
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

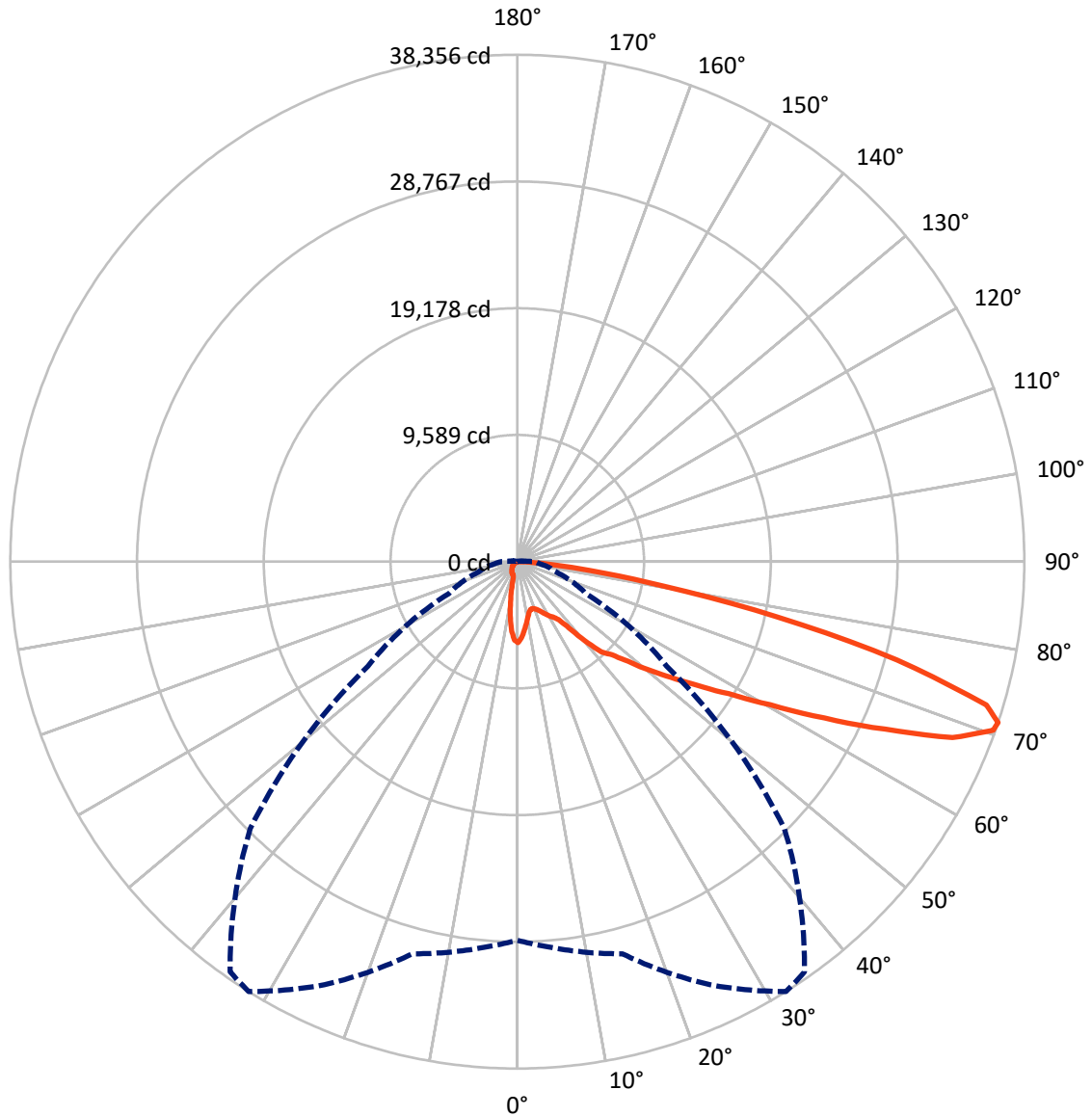
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	3189.8	0.0	3189.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34892.2	0.0	34892.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	38082.0	0.0	38082.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	1.3
10°-20°	1080.8	2.8
20°-30°	1681.3	4.4
30°-40°	2801.1	7.4
40°-50°	5210.6	13.7
50°-60°	8365.7	22.0
60°-70°	11252.3	29.5
70°-80°	6676.1	17.5
80°-90°	516.0	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°	38082.0	100.0
0°-180°	38082.0	100.0



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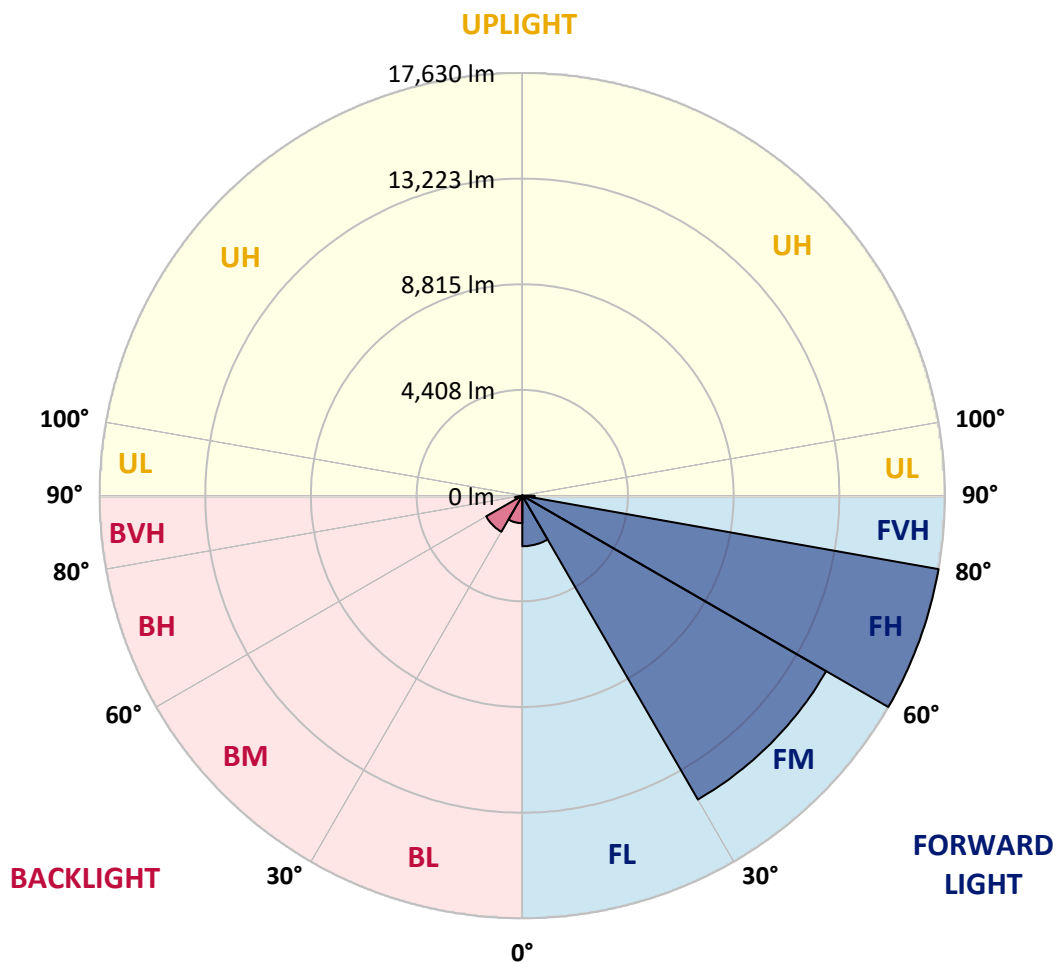
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2110.8	5.5			
FM	(30°-60°)	14637.3	38.4			
FH	(60°-80°)	17630.1	46.3			G5
FVH	(80°-90°)	514.0	1.3			G4/750
BL	(0°-30°)	1149.3	3.0	B3/2500		
BM	(30°-60°)	1740.1	4.6	B2/2500		
BH	(60°-80°)	298.3	0.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2
2.5°	5679.8	5738.3	5729.5	5750.0	5799.7	5820.2	5875.7	5937.1	6021.9	6080.3	6118.3
5°	5086.4	5130.3	5136.1	5238.4	5288.1	5343.7	5507.4	5685.7	5884.5	6042.3	6147.6
7.5°	4452.1	4475.5	4522.2	4656.7	4782.4	4838.0	5086.4	5396.3	5709.1	6004.3	6194.3
10°	3928.8	3955.1	4039.9	4183.2	4300.1	4373.2	4718.1	5106.9	5545.4	5983.9	6261.6
12.5°	3630.7	3645.3	3677.4	3806.1	3955.1	4034.1	4405.3	4849.6	5413.8	5992.6	6375.6
15°	3610.2	3604.4	3566.3	3619.0	3753.4	3835.3	4197.8	4674.3	5296.9	6021.9	6510.0
17.5°	3718.4	3703.7	3613.1	3613.1	3724.2	3791.4	4110.1	4580.7	5238.4	6089.1	6700.1
20°	3885.0	3861.6	3712.5	3700.8	3809.0	3879.1	4162.7	4586.6	5250.1	6214.8	6954.4
22.5°	4095.5	4069.1	3844.1	3849.9	3966.8	4037.0	4314.7	4691.8	5323.2	6369.7	7226.2
25°	4370.2	4341.0	4075.0	4063.3	4186.1	4247.5	4539.8	4878.9	5425.5	6562.7	7582.9
27.5°	4735.6	4674.3	4355.6	4338.1	4469.6	4548.6	4811.6	5130.3	5606.8	6828.7	8062.3
30°	5036.7	4969.5	4665.5	4618.7	4759.0	4820.4	5092.3	5469.4	5963.4	7293.5	8725.9
32.5°	5431.4	5332.0	4975.3	4852.6	5001.7	5080.6	5498.6	6100.8	6492.5	7784.6	9515.1
35°	6320.0	6258.6	5823.1	5393.4	5384.6	5484.0	6097.9	6738.1	7036.2	8550.5	10590.9
37.5°	7591.6	7547.8	7085.9	6510.0	6343.4	6296.7	6825.8	7439.6	7904.4	9602.8	11842.0
40°	9067.9	8965.6	8541.7	8053.5	7837.2	7699.8	7685.2	8483.2	9038.6	11032.3	13145.8
42.5°	10126.1	9939.0	9424.5	9389.4	9342.7	9199.4	8784.3	10009.2	10503.2	12569.9	14540.2
45°	11236.9	10953.4	10187.5	10055.9	10038.4	10029.6	10444.7	11815.7	12099.3	14236.2	15972.6
47.5°	12099.3	11874.2	11245.7	11187.2	11260.3	11459.1	12640.1	13733.4	13674.9	15721.2	17174.0
50°	13248.1	13078.6	12379.9	12491.0	12868.1	13192.6	15116.1	15823.5	14969.9	16890.5	18048.1
52.5°	14604.5	14291.7	13642.7	13943.8	14522.6	15063.4	17744.0	17653.4	15879.0	17770.4	18699.9
55°	15779.6	15557.5	15335.3	15648.1	16513.4	17188.6	20117.7	19024.4	16539.7	18477.8	18986.4
57.5°	17767.4	17714.8	17486.8	17805.4	18854.9	19556.5	22242.9	20088.5	16963.5	18846.1	18650.2
60°	20708.2	20623.4	20199.6	20605.9	21974.0	23076.0	24201.5	21044.4	17060.0	18702.9	17682.7
62.5°	24245.3	23955.9	23593.4	24192.7	26069.4	26554.7	26046.0	21611.5	16700.5	17562.8	15349.9
65°	27548.6	27250.4	27259.2	28522.0	30565.4	30895.7	28197.5	21526.7	15648.1	14706.8	11321.7
67.5°	30077.2	30027.5	30384.1	32848.4	35520.2	35292.2	30121.0	20258.0	12529.0	9532.7	6016.0
70°	30205.8	30302.3	31325.4	35485.2	38197.9	37835.4	29957.3	16466.6	7810.9	4384.9	2370.7
71°	28650.6	29299.6	30714.4	35403.3	38355.8	37885.1	28577.6	13791.8	5729.5	3057.7	1710.1
72.5°	24414.9	24756.9	27814.6	33319.0	37107.6	36102.0	25078.4	9667.1	3668.7	1870.9	982.2
75°	13446.9	14288.8	18626.9	26139.6	29679.6	28796.8	16343.8	4592.4	1829.9	1023.1	406.3
77.5°	6401.9	6238.2	9088.3	15545.8	20123.6	20076.8	8234.8	2040.4	1067.0	692.8	204.6
80°	1829.9	2058.0	3478.7	7389.9	11172.6	11295.4	3162.9	985.1	739.6	540.8	105.2
82.5°	552.5	564.2	1277.5	3268.2	5557.1	5238.4	1186.8	502.8	532.0	429.7	61.4
85°	96.5	119.9	377.1	1151.8	2119.3	1607.8	298.2	239.7	350.8	283.6	35.1
87.5°	5.8	8.8	125.7	131.5	187.1	108.2	52.6	35.1	76.0	76.0	20.5
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°	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2	6124.2
2.5°	6144.6	6162.2	6150.5	6124.2	6080.3	6027.7	5957.6	5899.1	5849.4	5823.1	5855.2
5°	6182.6	6206.0	6147.6	6016.0	5817.2	5600.9	5355.4	5165.4	5016.3	4969.5	4952.0
7.5°	6241.1	6255.7	6097.9	5805.5	5384.6	4873.0	4425.8	4048.7	3756.4	3668.7	3540.0
10°	6317.1	6308.3	6010.2	5466.5	4726.9	3958.1	3265.3	2750.8	2362.0	2221.7	2210.0
12.5°	6434.0	6387.3	5899.1	5004.6	3943.4	2937.9	2081.3	1628.2	1382.7	1300.8	1283.3
15°	6580.2	6469.1	5723.7	4463.8	3019.7	1897.2	1283.3	1145.9	1113.8	1107.9	1102.1
17.5°	6752.7	6577.3	5492.8	3800.2	2122.3	1230.7	1072.8	1069.9	1072.8	1067.0	1064.1
20°	6986.5	6691.3	5218.0	3013.9	1403.2	1037.7	1023.1	1023.1	1026.1	1023.1	1023.1
22.5°	7235.0	6825.8	4878.9	2300.6	1058.2	985.1	982.2	988.1	993.9	991.0	991.0
25°	7542.0	7001.2	4431.6	1575.6	947.1	941.3	944.2	955.9	967.6	970.5	967.6
27.5°	7986.3	7217.5	3952.2	1084.5	868.2	874.0	903.3	932.5	950.1	953.0	953.0
30°	8486.2	7457.2	3326.6	879.9	803.9	803.9	839.0	894.5	932.5	938.4	941.3
32.5°	9129.3	7734.9	2633.8	792.2	742.5	736.7	768.8	836.0	906.2	926.7	926.7
35°	9924.4	8062.3	1958.6	736.7	698.7	684.0	701.6	757.1	847.7	906.2	912.0
37.5°	10856.9	8372.1	1432.4	687.0	657.7	637.3	649.0	692.8	765.9	853.6	877.0
40°	11719.3	8646.9	1069.9	646.0	616.8	602.2	611.0	631.4	692.8	774.7	789.3
42.5°	12660.5	8860.3	850.7	602.2	575.9	570.0	570.0	578.8	619.7	666.5	669.4
45°	13598.9	8936.3	713.3	549.6	532.0	537.9	535.0	529.1	546.6	540.8	540.8
47.5°	14268.3	8845.7	590.5	499.9	499.9	508.6	494.0	473.6	464.8	429.7	432.6
50°	14727.3	8515.4	485.3	441.4	464.8	476.5	447.3	415.1	382.9	344.9	336.2
52.5°	14917.3	7927.8	397.6	365.4	412.2	426.8	391.7	353.7	304.0	271.9	263.1
55°	14794.5	7202.9	330.3	298.2	347.9	365.4	330.3	286.5	230.9	195.9	190.0
57.5°	14253.7	6337.6	280.6	236.8	277.7	289.4	266.0	219.2	163.7	128.6	128.6
60°	13318.3	5443.1	228.0	187.1	207.5	225.1	201.7	157.9	111.1	78.9	73.1
62.5°	11421.1	4419.9	184.2	146.2	146.2	160.8	140.3	114.0	70.2	40.9	38.0
65°	8246.5	3031.4	146.2	108.2	105.2	105.2	87.7	76.0	40.9	17.5	11.7
67.5°	4481.3	1710.1	116.9	81.9	73.1	70.2	55.5	43.8	17.5	2.9	0.0
70°	1762.7	657.7	90.6	55.5	46.8	43.8	29.2	20.5	11.7	0.0	0.0
71°	1195.6	453.1	78.9	46.8	38.0	32.2	23.4	17.5	8.8	0.0	0.0
72.5°	684.0	280.6	61.4	35.1	29.2	23.4	17.5	11.7	8.8	0.0	0.0
75°	298.2	143.2	38.0	26.3	20.5	14.6	11.7	8.8	2.9	0.0	0.0
77.5°	152.0	78.9	26.3	20.5	11.7	8.8	5.8	2.9	0.0	0.0	0.0
80°	84.8	40.9	17.5	11.7	8.8	5.8	2.9	2.9	0.0	0.0	0.0
82.5°	46.8	23.4	8.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.2	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	5.8	0.0	0.0	0.0	0.0	2.9	2.9	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)