

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: P456276

Luminaire Tested: **GALN-SA7C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456276
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-SA7C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 32113 lumens
Efficiency: N/A
Efficacy: 85.2 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

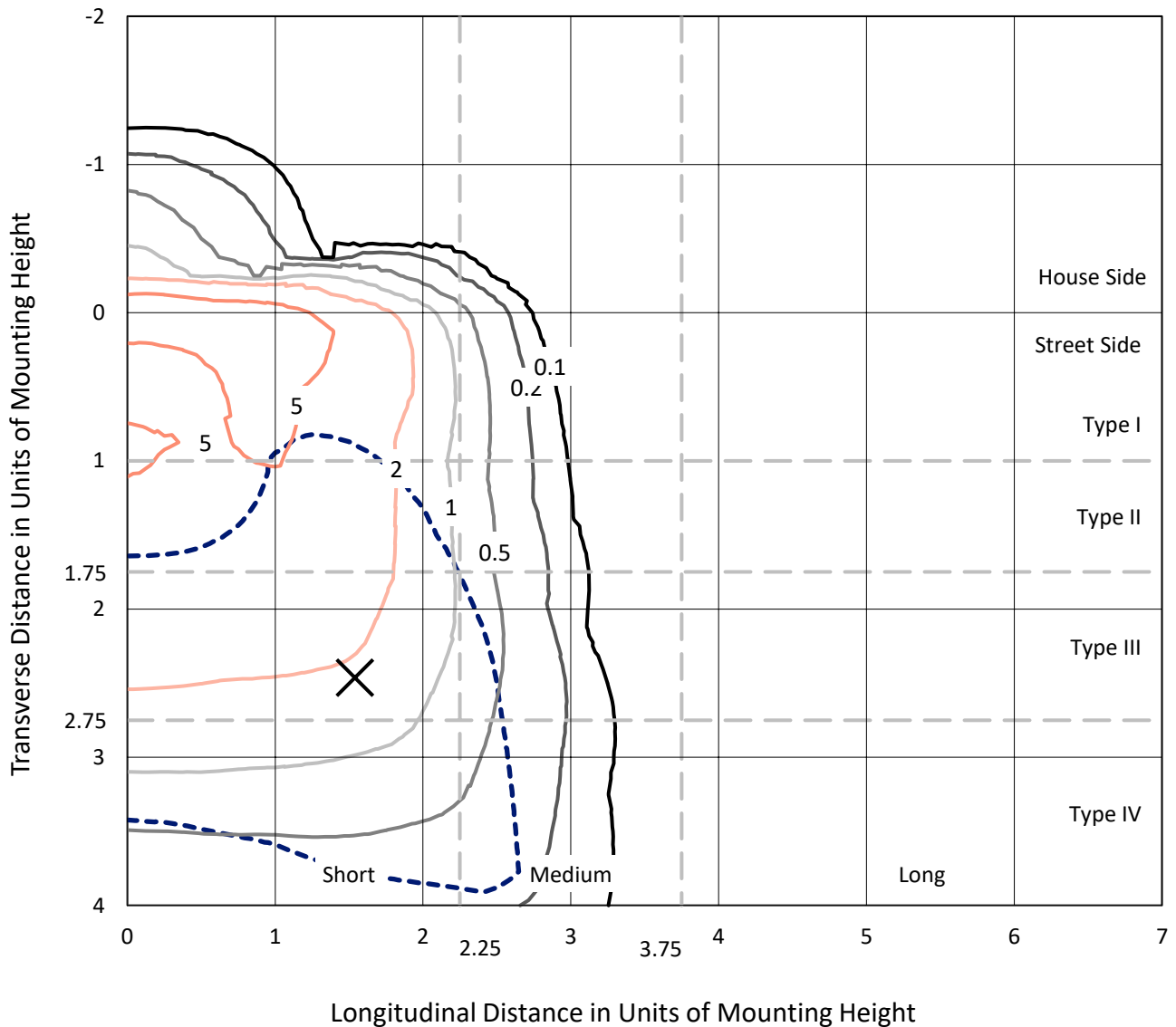
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

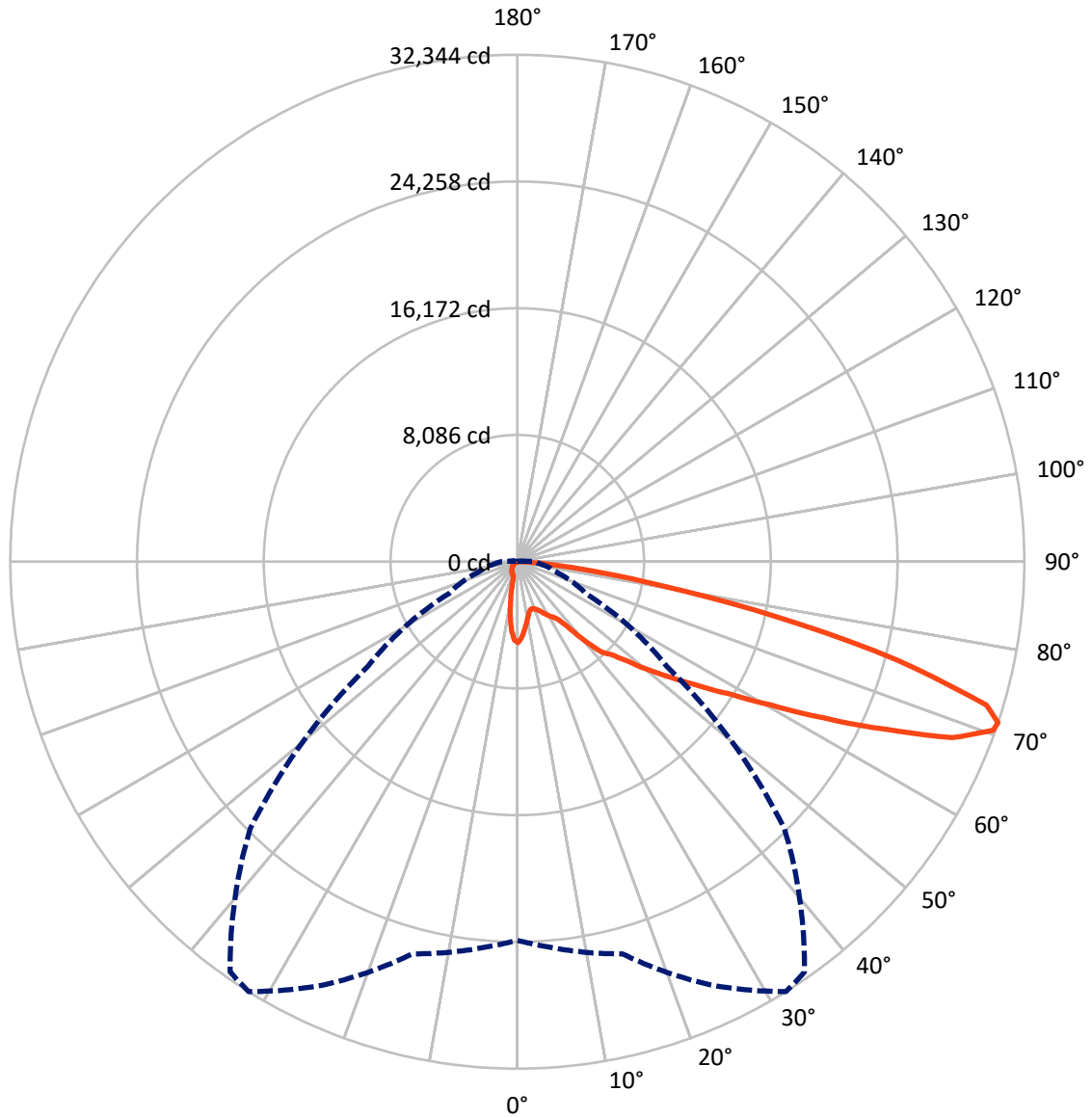
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2689.8	0.0	2689.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	29423.2	0.0	29423.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	32113.0	0.0	32113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.3
10°-20°	911.4	2.8
20°-30°	1417.8	4.4
30°-40°	2362.1	7.4
40°-50°	4393.8	13.7
50°-60°	7054.5	22.0
60°-70°	9488.6	29.5
70°-80°	5629.7	17.5
80°-90°	435.2	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°	32113.0	100.0
0°-180°	32113.0	100.0

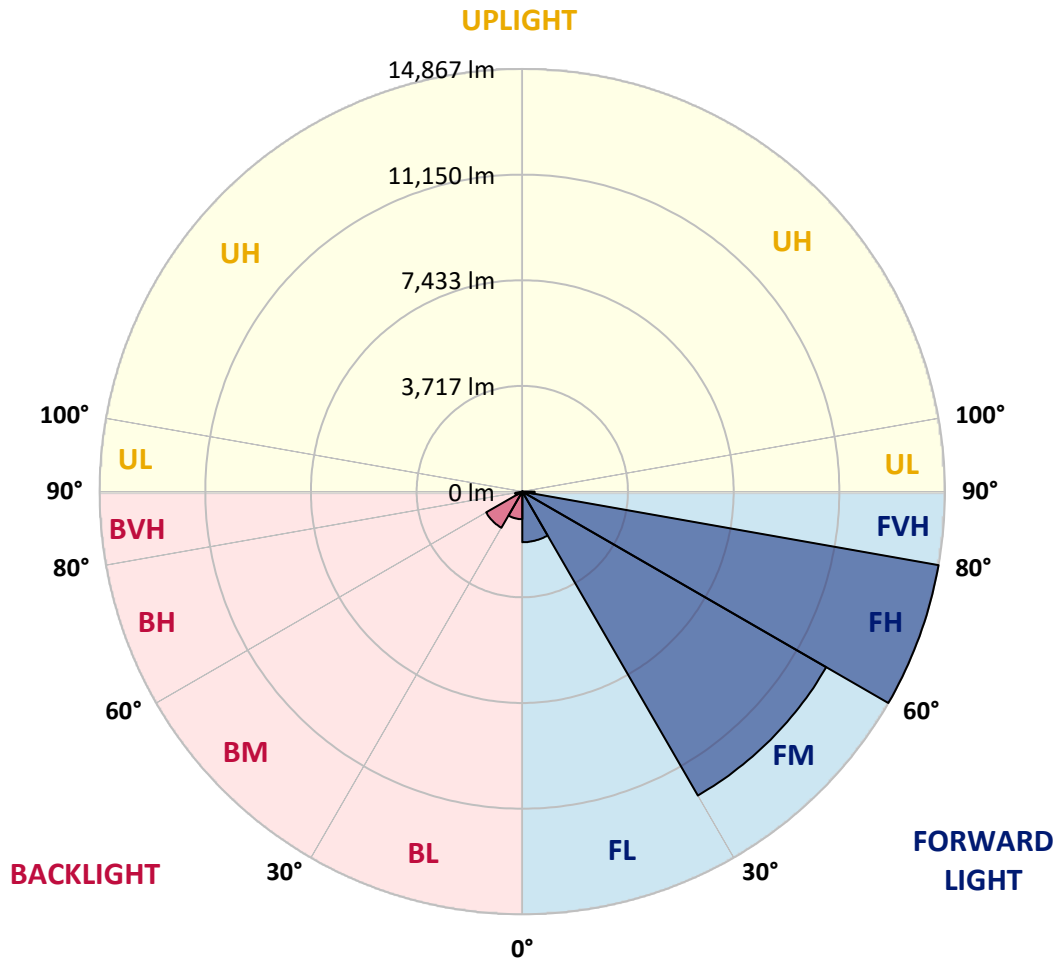


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1779.9	5.5			
FM	(30°-60°)	12343.1	38.4			
FH	(60°-80°)	14866.8	46.3			G5
FVH	(80°-90°)	433.5	1.3			G3/500
BL	(0°-30°)	969.2	3.0	B2/1000		
BM	(30°-60°)	1467.3	4.6	B2/2500		
BH	(60°-80°)	251.6	0.8	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3
2.5°	4789.6	4838.9	4831.5	4848.7	4890.7	4907.9	4954.7	5006.5	5078.0	5127.3	5159.3
5°	4289.2	4326.2	4331.1	4417.4	4459.3	4506.1	4644.1	4794.5	4962.1	5095.3	5184.0
7.5°	3754.3	3774.0	3813.4	3926.8	4032.8	4079.7	4289.2	4550.5	4814.2	5063.2	5223.4
10°	3313.0	3335.2	3406.7	3527.5	3626.1	3687.7	3978.6	4306.4	4676.2	5045.9	5280.1
12.5°	3061.6	3073.9	3101.0	3209.5	3335.2	3401.8	3714.8	4089.5	4565.3	5053.3	5376.3
15°	3044.3	3039.4	3007.4	3051.7	3165.1	3234.1	3539.8	3941.6	4466.7	5078.0	5489.7
17.5°	3135.5	3123.2	3046.8	3046.8	3140.5	3197.2	3465.9	3862.7	4417.4	5134.7	5649.9
20°	3276.0	3256.3	3130.6	3120.7	3212.0	3271.1	3510.2	3867.7	4427.2	5240.7	5864.3
22.5°	3453.5	3431.3	3241.5	3246.5	3345.1	3404.2	3638.4	3956.4	4488.8	5371.3	6093.6
25°	3685.2	3660.6	3436.3	3426.4	3529.9	3581.7	3828.2	4114.2	4575.1	5534.0	6394.3
27.5°	3993.4	3941.6	3672.9	3658.1	3769.1	3835.6	4057.5	4326.2	4728.0	5758.3	6798.6
30°	4247.3	4190.6	3934.2	3894.8	4013.1	4064.9	4294.1	4612.1	5028.7	6150.3	7358.2
32.5°	4580.1	4496.2	4195.5	4092.0	4217.7	4284.3	4636.8	5144.6	5474.9	6564.4	8023.7
35°	5329.4	5277.7	4910.4	4548.0	4540.6	4624.4	5142.1	5681.9	5933.4	7210.3	8930.9
37.5°	6401.7	6364.7	5975.3	5489.7	5349.2	5309.7	5755.9	6273.5	6665.5	8097.7	9985.9
40°	7646.6	7560.3	7202.9	6791.2	6608.8	6492.9	6480.6	7153.6	7621.9	9303.1	11085.3
42.5°	8538.9	8381.2	7947.3	7917.7	7878.3	7757.5	7407.5	8440.3	8856.9	10599.7	12261.1
45°	9475.6	9236.5	8590.7	8479.8	8465.0	8457.6	8807.6	9963.7	10202.8	12004.8	13469.0
47.5°	10202.8	10013.0	9483.0	9433.7	9495.4	9663.0	10658.9	11580.8	11531.5	13257.0	14482.1
50°	11171.6	11028.6	10439.5	10533.1	10851.1	11124.8	12746.8	13343.3	12623.5	14243.0	15219.2
52.5°	12315.4	12051.6	11504.4	11758.3	12246.4	12702.4	14962.8	14886.4	13390.1	14985.0	15768.9
55°	13306.3	13119.0	12931.6	13195.4	13925.0	14494.5	16964.4	16042.5	13947.2	15581.6	16010.5
57.5°	14982.6	14938.2	14745.9	15014.6	15899.5	16491.2	18756.5	16939.8	14304.7	15892.2	15727.0
60°	17462.4	17390.9	17033.5	17376.1	18529.8	19459.1	20408.1	17745.9	14386.0	15771.4	14911.1
62.5°	20445.1	20201.1	19895.4	20400.7	21983.3	22392.5	21963.6	18224.1	14082.8	14810.0	12944.0
65°	23230.6	22979.2	22986.6	24051.5	25774.5	26053.1	23777.8	18152.6	13195.4	12401.6	9547.1
67.5°	25362.9	25321.0	25621.7	27699.7	29952.8	29760.5	25399.8	17082.8	10565.2	8038.5	5073.1
70°	25471.3	25552.7	26415.4	29923.2	32210.8	31905.1	25261.8	13885.6	6586.6	3697.6	1999.2
71°	24159.9	24707.2	25900.2	29854.2	32343.9	31947.0	24098.3	11630.1	4831.5	2578.4	1442.1
72.5°	20588.1	20876.5	23454.9	28096.6	31291.3	30443.3	21147.6	8151.9	3093.6	1577.6	828.3
75°	11339.2	12049.1	15707.3	22042.4	25027.6	24283.2	13782.1	3872.6	1543.1	862.8	342.6
77.5°	5398.5	5260.4	7663.8	13109.1	16969.4	16929.9	6944.0	1720.6	899.7	584.2	172.6
80°	1543.1	1735.4	2933.4	6231.6	9421.4	9524.9	2667.2	830.7	623.7	456.0	88.7
82.5°	465.9	475.8	1077.2	2755.9	4686.1	4417.4	1000.8	424.0	448.6	362.4	51.8
85°	81.3	101.1	318.0	971.2	1787.2	1355.8	251.4	202.1	295.8	239.1	29.6
87.5°	4.9	7.4	106.0	110.9	157.8	91.2	44.4	29.6	64.1	64.1	17.3
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°	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3	5164.3
2.5°	5181.5	5196.3	5186.5	5164.3	5127.3	5082.9	5023.8	4974.5	4932.6	4910.4	4937.5
5°	5213.6	5233.3	5184.0	5073.1	4905.4	4723.0	4516.0	4355.7	4230.0	4190.6	4175.8
7.5°	5262.9	5275.2	5142.1	4895.6	4540.6	4109.2	3732.1	3414.1	3167.6	3093.6	2985.2
10°	5327.0	5319.6	5068.1	4609.6	3986.0	3337.7	2753.5	2319.6	1991.8	1873.4	1863.6
12.5°	5425.6	5386.1	4974.5	4220.2	3325.3	2477.4	1755.1	1373.0	1166.0	1096.9	1082.2
15°	5548.8	5455.1	4826.6	3764.1	2546.4	1599.8	1082.2	966.3	939.2	934.3	929.3
17.5°	5694.3	5546.4	4631.8	3204.6	1789.6	1037.8	904.7	902.2	904.7	899.7	897.3
20°	5891.5	5642.5	4400.1	2541.5	1183.2	875.1	862.8	862.8	865.2	862.8	862.8
22.5°	6101.0	5755.9	4114.2	1940.0	892.3	830.7	828.3	833.2	838.1	835.7	835.7
25°	6359.8	5903.8	3737.0	1328.7	798.7	793.7	796.2	806.1	815.9	818.4	815.9
27.5°	6734.5	6086.2	3332.7	914.5	732.1	737.0	761.7	786.3	801.1	803.6	803.6
30°	7156.0	6288.3	2805.2	742.0	677.9	677.9	707.5	754.3	786.3	791.3	793.7
32.5°	7698.3	6522.5	2221.0	668.0	626.1	621.2	648.3	705.0	764.2	781.4	781.4
35°	8368.8	6798.6	1651.6	621.2	589.1	576.8	591.6	638.4	714.9	764.2	769.1
37.5°	9155.2	7059.9	1207.9	579.3	554.6	537.4	547.2	584.2	645.8	719.8	739.5
40°	9882.4	7291.6	902.2	544.8	520.1	507.8	515.2	532.5	584.2	653.2	665.6
42.5°	10676.1	7471.6	717.3	507.8	485.6	480.7	480.7	488.1	522.6	562.0	564.5
45°	11467.4	7535.6	601.5	463.4	448.6	453.6	451.1	446.2	461.0	456.0	456.0
47.5°	12031.9	7459.2	497.9	421.5	421.5	428.9	416.6	399.3	391.9	362.4	364.8
50°	12418.9	7180.7	409.2	372.2	391.9	401.8	377.2	350.0	322.9	290.9	283.5
52.5°	12579.1	6685.2	335.2	308.1	347.6	359.9	330.3	298.3	256.4	229.2	221.9
55°	12475.6	6073.9	278.6	251.4	293.3	308.1	278.6	241.6	194.7	165.2	160.2
57.5°	12019.6	5344.2	236.6	199.7	234.2	244.0	224.3	184.9	138.0	108.5	108.5
60°	11230.8	4589.9	192.3	157.8	175.0	189.8	170.1	133.1	93.7	66.6	61.6
62.5°	9630.9	3727.2	155.3	123.3	123.3	135.6	118.3	96.1	59.2	34.5	32.0
65°	6953.9	2556.3	123.3	91.2	88.7	88.7	74.0	64.1	34.5	14.8	9.9
67.5°	3778.9	1442.1	98.6	69.0	61.6	59.2	46.8	37.0	14.8	2.5	0.0
70°	1486.4	554.6	76.4	46.8	39.4	37.0	24.7	17.3	9.9	0.0	0.0
71°	1008.2	382.1	66.6	39.4	32.0	27.1	19.7	14.8	7.4	0.0	0.0
72.5°	576.8	236.6	51.8	29.6	24.7	19.7	14.8	9.9	7.4	0.0	0.0
75°	251.4	120.8	32.0	22.2	17.3	12.3	9.9	7.4	2.5	0.0	0.0
77.5°	128.2	66.6	22.2	17.3	9.9	7.4	4.9	2.5	0.0	0.0	0.0
80°	71.5	34.5	14.8	9.9	7.4	4.9	2.5	2.5	0.0	0.0	0.0
82.5°	39.4	19.7	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.7	12.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.9	0.0	0.0	0.0	0.0	2.5	2.5	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)