

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: P456013

Luminaire Tested: **GALN-SA7B-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25951 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

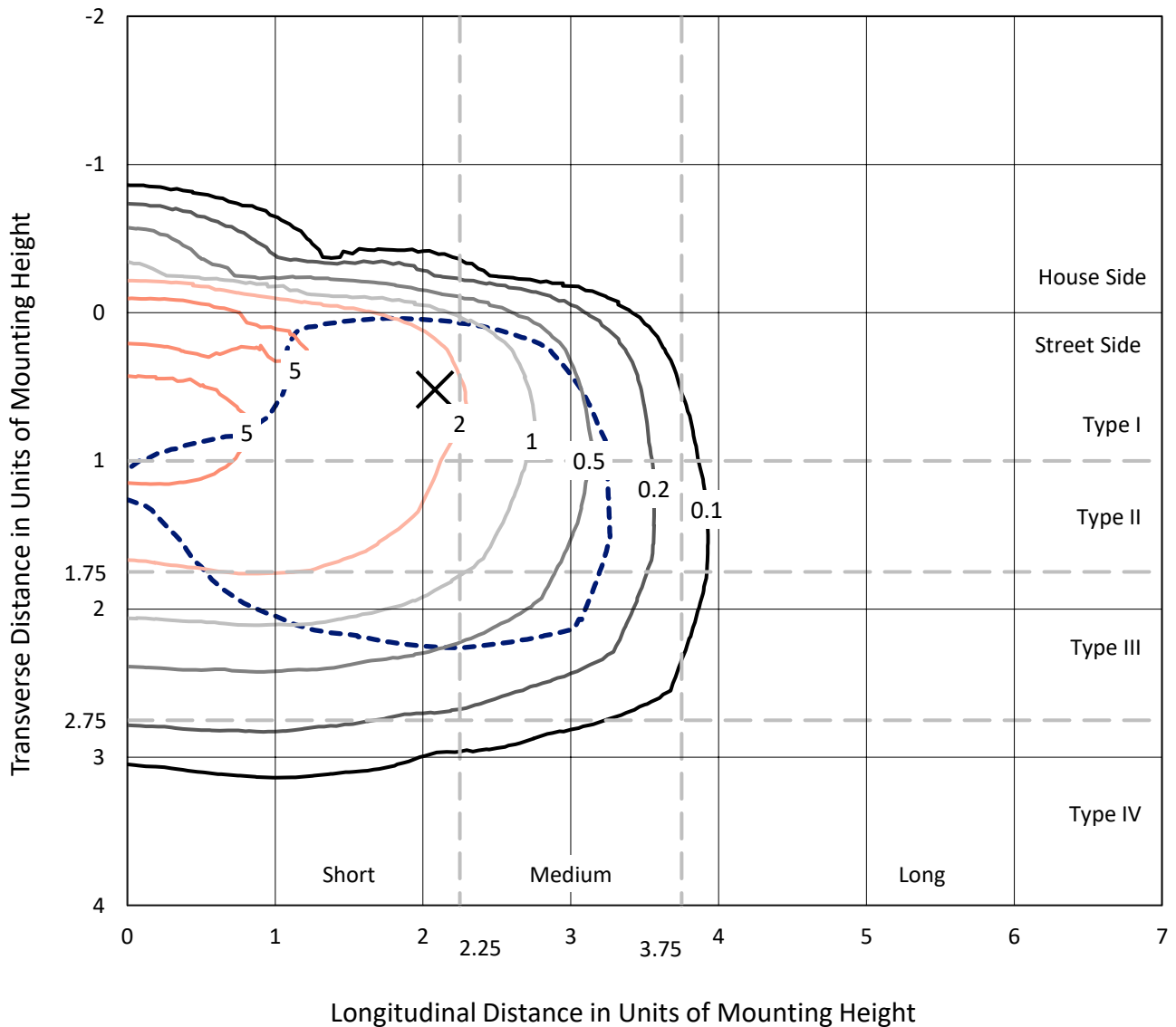
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

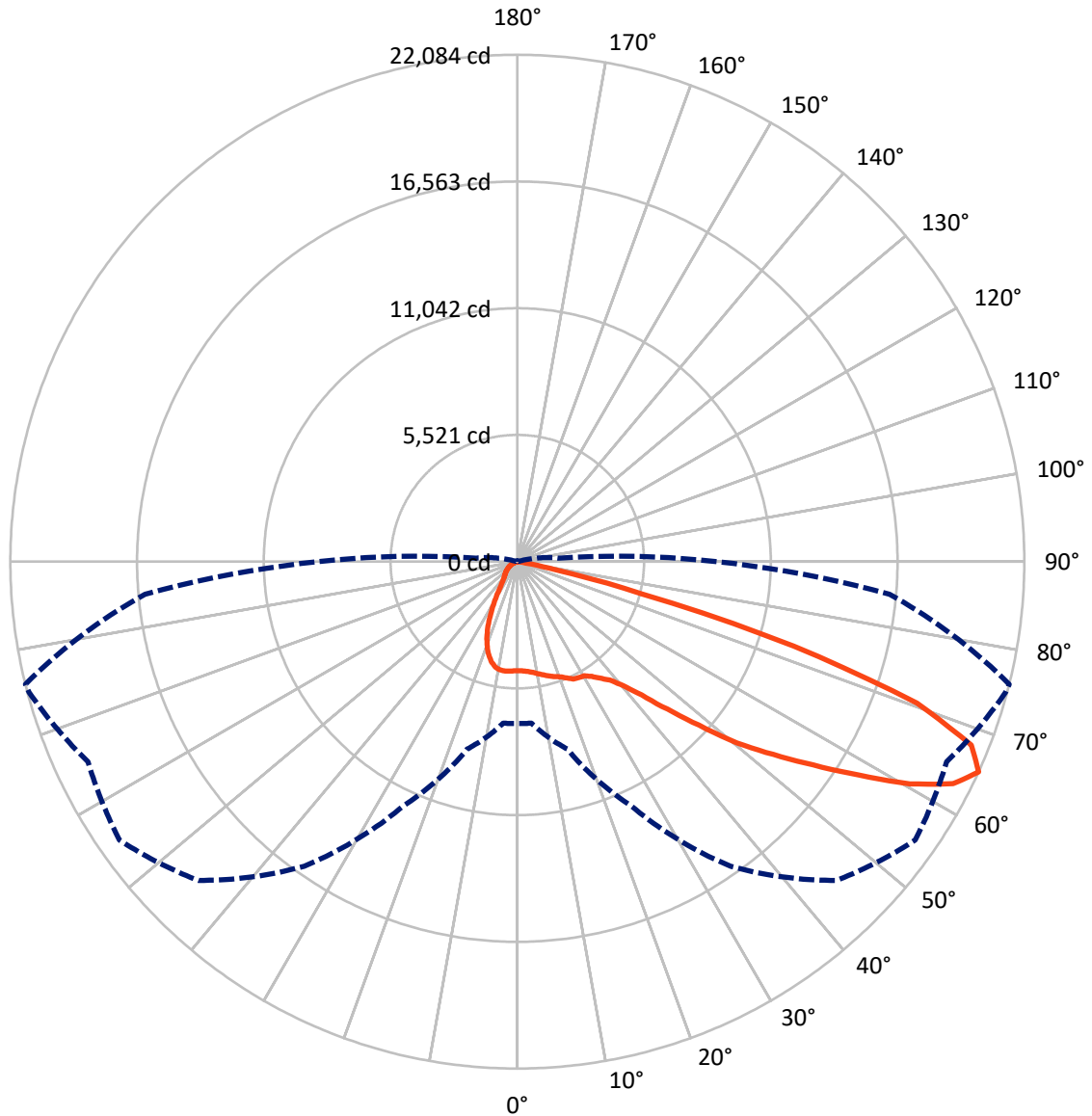
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.2	0.0	1874.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24076.8	0.0	24076.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	25951.0	0.0	25951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.1	1.5
10°-20°	870.7	3.4
20°-30°	1403.1	5.4
30°-40°	2439.7	9.4
40°-50°	4031.4	15.5
50°-60°	6227.6	24.0
60°-70°	7604.9	29.3
70°-80°	2886.2	11.1
80°-90°	96.3	0.4
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°	25951.0	100.0
0°-180°	25951.0	100.0

Coefficient of Utilization



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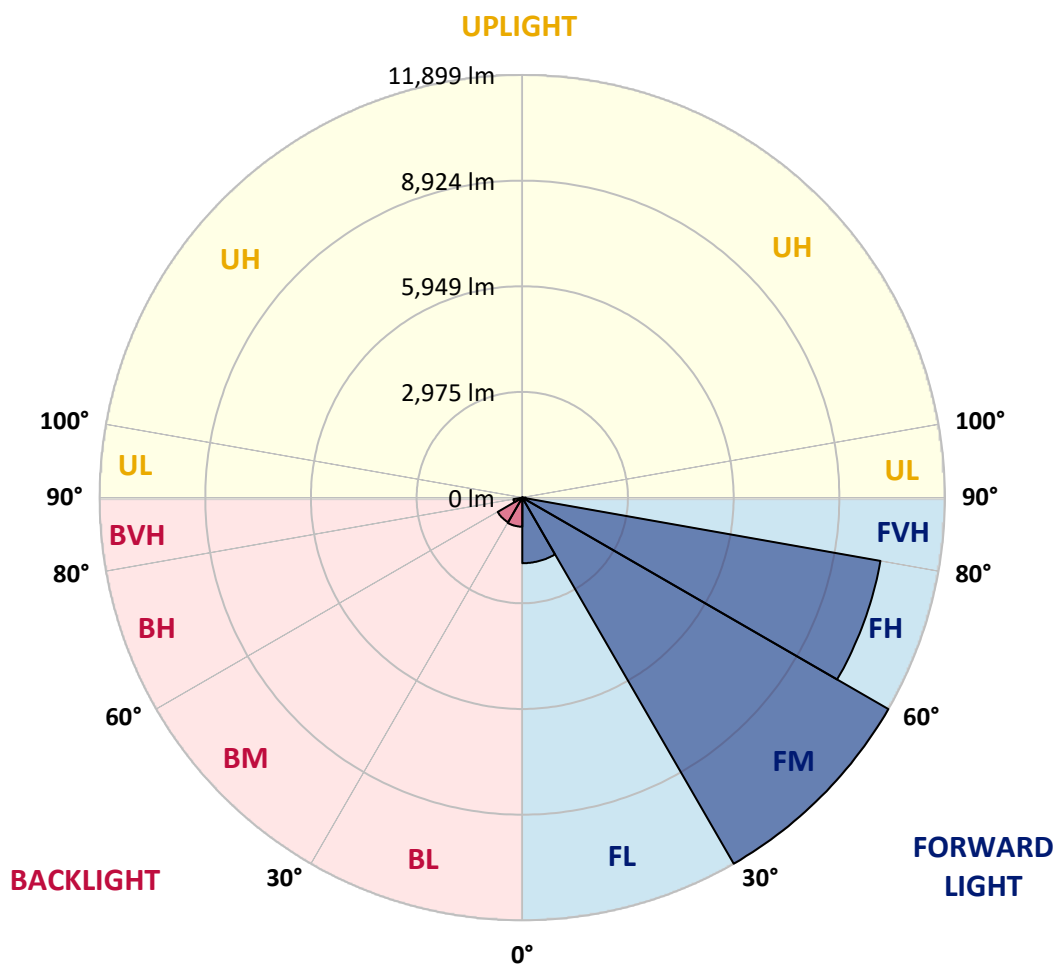
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.1	7.1			
FM (30°-60°)	11898.9	45.9			
FH (60°-80°)	10236.8	39.4			G4/12000
FVH (80°-90°)	95.0	0.4			G1/100
BL (0°-30°)	818.8	3.2	B2/1000		
BM (30°-60°)	799.8	3.1	B1/1000		
BH (60°-80°)	254.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3
2.5°	4536.6	4538.4	4549.4	4576.9	4619.0	4653.8	4683.1	4730.8	4763.8	4767.4	4778.4
5°	4223.3	4201.3	4223.3	4294.7	4358.8	4455.9	4575.0	4694.1	4800.4	4807.7	4859.0
7.5°	3871.5	3889.8	3924.6	3997.9	4118.8	4267.2	4439.5	4652.0	4853.5	4871.9	4972.6
10°	3514.2	3554.5	3611.3	3723.1	3891.6	4084.0	4318.5	4622.7	4937.8	4963.5	5137.5
12.5°	3184.4	3202.7	3272.3	3422.6	3631.4	3902.6	4226.9	4606.2	5031.3	5062.4	5313.4
15°	2931.5	2955.4	3015.8	3151.4	3384.1	3732.2	4151.8	4600.7	5122.9	5166.8	5489.3
17.5°	2883.9	2898.6	2924.2	3015.8	3219.2	3596.6	4084.0	4598.9	5210.8	5264.0	5652.4
20°	3080.0	3067.1	3041.5	3032.3	3144.1	3492.2	4034.5	4613.5	5295.1	5355.6	5824.6
22.5°	3571.0	3587.5	3437.2	3259.5	3222.9	3475.7	4027.2	4683.1	5428.8	5500.3	6017.0
25°	4613.5	4487.1	4252.6	3827.5	3506.9	3576.5	4109.7	4848.0	5584.6	5663.4	6191.1
27.5°	5766.0	5727.5	5362.9	4663.0	4065.7	3789.0	4256.2	4974.5	5635.9	5716.5	6290.0
30°	6898.3	6944.1	6526.3	5753.2	4877.4	4182.9	4393.6	5022.1	5681.7	5766.0	6416.4
32.5°	7948.1	8003.1	7636.7	6870.8	5833.8	4864.5	4630.0	5207.2	5874.1	5960.2	6627.1
35°	8774.5	8781.8	8505.1	7895.0	6878.1	5692.7	5141.2	5531.5	6134.3	6235.0	6850.6
37.5°	9533.0	9522.0	9197.7	8671.9	7748.4	6515.4	5784.3	5905.2	6431.1	6535.5	7173.1
40°	10095.5	10102.8	9998.4	9503.7	8560.1	7275.7	6293.7	6255.2	6929.4	7092.5	7642.2
42.5°	10471.1	10538.9	10590.2	10339.2	9580.6	8212.0	7076.0	7004.6	7794.2	7929.8	8305.4
45°	10775.2	10896.2	11152.7	11139.9	10560.9	9360.8	8149.7	8003.1	9020.0	9164.7	9150.1
47.5°	10996.9	11119.7	11544.8	11801.3	11482.5	10474.8	9500.0	9373.6	10483.9	10641.5	10082.7
50°	11110.5	11257.1	11799.5	12296.0	12202.5	11548.4	11039.1	11046.4	12252.0	12404.1	11163.7
52.5°	10844.9	11035.4	11935.0	12829.2	13010.6	12576.3	12481.0	12722.9	13825.9	13956.0	12140.2
55°	9996.6	10236.6	11750.0	13283.6	13946.8	13789.2	14119.0	14487.3	15546.3	15630.6	13142.5
57.5°	9459.7	9714.4	11204.0	13670.1	15071.8	15313.6	15835.8	16105.2	17321.7	17536.1	14293.1
60°	9007.2	9206.9	10755.1	13752.6	16215.1	17178.8	17686.4	17964.9	19513.1	19652.3	15559.2
62.5°	8254.1	8483.2	9996.6	13177.3	16790.4	18672.1	19723.8	19599.2	21207.9	21305.0	16336.0
65°	7043.0	7063.2	8457.5	11731.7	16196.8	19641.3	21154.7	20632.6	22017.7	22083.7	16275.6
67.5°	5256.6	5450.8	6506.2	9221.5	13681.1	18813.2	21618.3	20660.0	21506.5	21323.3	14983.8
70°	3385.9	3534.3	4410.1	6394.4	9864.6	15700.2	20081.1	19243.7	18875.5	18468.7	12264.8
72.5°	1562.9	1753.4	2620.1	3653.4	5850.3	11183.8	16301.2	15634.3	13585.9	12581.8	7796.1
75°	681.6	729.2	1293.5	1927.5	2742.8	5914.4	10747.8	9705.2	6136.1	5604.7	3120.3
77.5°	415.9	447.1	677.9	1033.4	1077.3	2253.6	5789.8	4234.2	1896.3	1672.8	846.5
80°	282.2	317.0	492.9	540.5	368.3	628.4	2173.0	1130.5	382.9	366.4	181.4
82.5°	137.4	174.1	364.6	302.3	159.4	201.5	632.1	241.9	111.8	104.4	64.1
85°	20.2	34.8	205.2	197.9	71.5	47.6	111.8	60.5	38.5	36.6	29.3
87.5°	0.0	0.0	69.6	31.1	7.3	7.3	12.8	12.8	14.7	12.8	14.7
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°	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3
2.5°	4783.9	4793.1	4758.3	4708.8	4655.7	4602.5	4527.4	4459.6	4419.3	4443.1	4384.5
5°	4870.0	4862.7	4771.1	4620.8	4421.1	4181.1	3942.9	3739.5	3673.6	3574.6	3563.7
7.5°	4989.1	4969.0	4774.7	4430.3	3979.6	3528.8	3089.1	2797.8	2631.1	2490.0	2493.6
10°	5155.8	5097.2	4732.6	4095.0	3353.0	2673.2	2112.5	1727.8	1561.0	1507.9	1465.8
12.5°	5328.1	5214.5	4615.3	3642.4	2610.9	1826.7	1284.4	1049.9	947.3	914.3	910.6
15°	5482.0	5302.4	4410.1	3098.3	1898.2	1167.1	875.8	798.8	786.0	787.9	786.0
17.5°	5634.1	5372.1	4126.1	2521.1	1289.9	837.3	753.0	734.7	740.2	747.5	745.7
20°	5760.5	5386.7	3763.4	1923.8	912.4	734.7	707.2	703.6	709.1	714.6	714.6
22.5°	5897.9	5397.7	3332.8	1332.0	745.7	683.4	668.8	668.8	676.1	683.4	685.2
25°	6000.5	5337.2	2817.9	956.4	657.8	633.9	626.6	628.4	635.8	639.4	637.6
27.5°	6017.0	5166.8	2271.9	732.9	597.3	573.5	566.2	573.5	564.3	569.8	566.2
30°	6031.6	4950.6	1718.6	617.5	542.3	505.7	494.7	483.7	476.4	467.2	465.4
32.5°	6077.5	4696.0	1255.1	555.2	491.0	450.7	425.1	393.9	370.1	362.8	360.9
35°	6097.6	4390.0	921.6	505.7	445.2	401.3	355.4	311.5	276.7	263.8	273.0
37.5°	6174.6	4093.2	714.6	469.0	404.9	350.0	291.3	236.4	203.4	196.0	199.7
40°	6332.1	3770.7	599.1	437.9	370.1	302.3	230.9	177.7	155.7	148.4	146.6
42.5°	6585.0	3450.1	533.2	408.6	335.3	254.7	181.4	139.2	120.9	115.4	115.4
45°	6892.8	3142.2	487.4	377.4	298.7	205.2	142.9	111.8	100.8	97.1	97.1
47.5°	7297.7	2872.9	448.9	346.3	258.3	163.1	115.4	97.1	89.8	91.6	93.4
50°	7708.1	2673.2	406.8	311.5	212.5	133.8	98.9	86.1	84.3	86.1	86.1
52.5°	8017.8	2555.9	350.0	263.8	166.7	111.8	87.9	80.6	78.8	75.1	75.1
55°	8435.5	2530.3	278.5	214.4	131.9	93.4	78.8	73.3	67.8	64.1	62.3
57.5°	8972.4	2559.6	214.4	166.7	102.6	77.0	69.6	60.5	53.1	45.8	45.8
60°	9305.8	2493.6	166.7	128.3	75.1	62.3	53.1	44.0	34.8	29.3	27.5
62.5°	9199.5	2215.1	131.9	95.3	53.1	45.8	34.8	29.3	20.2	14.7	12.8
65°	8651.7	1788.2	106.3	66.0	38.5	27.5	18.3	18.3	9.2	1.8	0.0
67.5°	7572.5	1324.7	84.3	44.0	22.0	12.8	9.2	5.5	0.0	0.0	0.0
70°	6163.6	956.4	66.0	27.5	12.8	9.2	3.7	1.8	0.0	0.0	0.0
72.5°	3913.6	547.8	51.3	16.5	9.2	3.7	0.0	0.0	0.0	0.0	0.0
75°	1513.4	214.4	34.8	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	428.7	100.8	20.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.8	44.0	11.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.1	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.1	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	1.8	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)