

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: P457624

Luminaire Tested: **GALN-SA9A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28520 lumens
Efficiency: N/A
Efficacy: 104.1 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

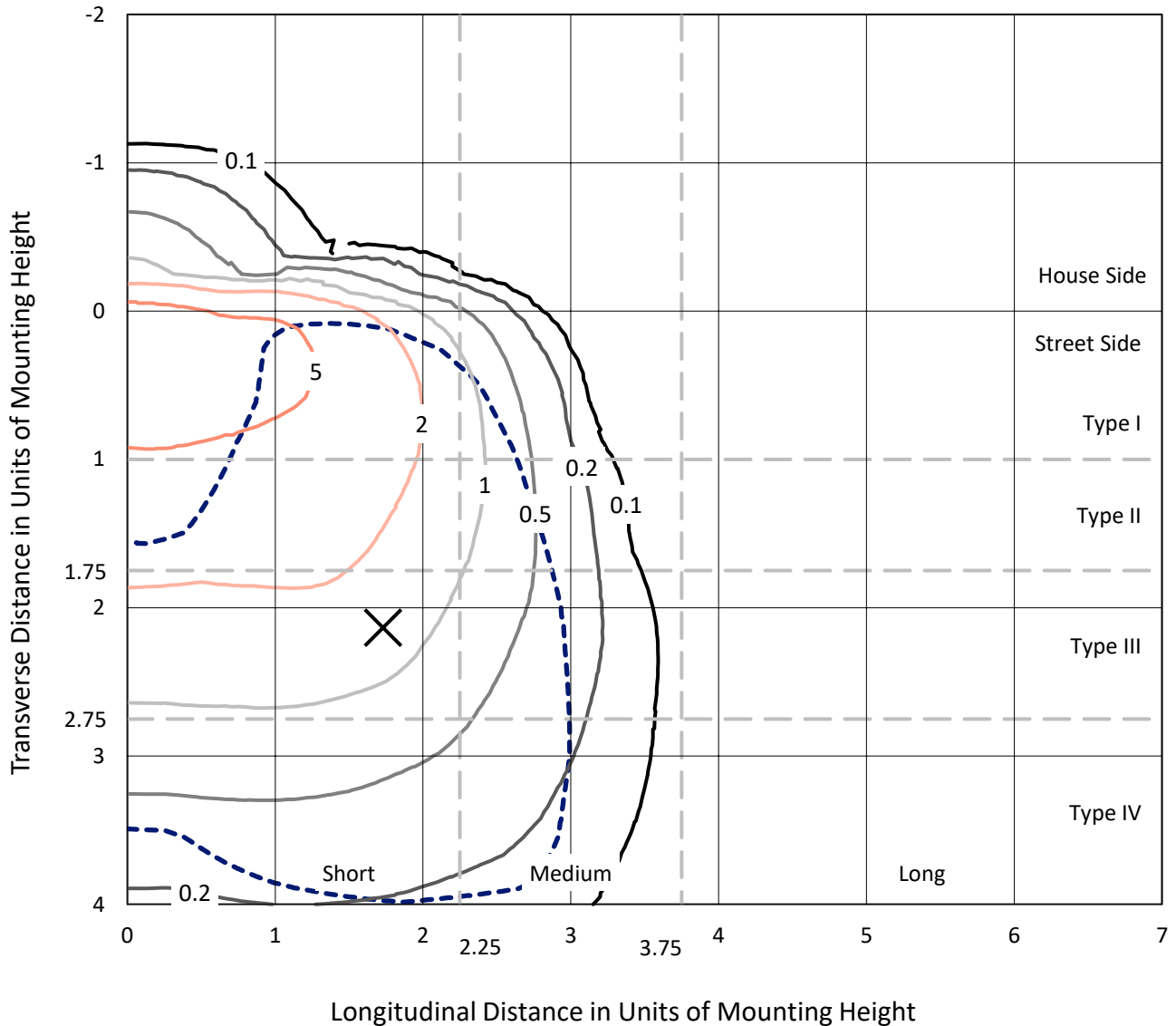
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

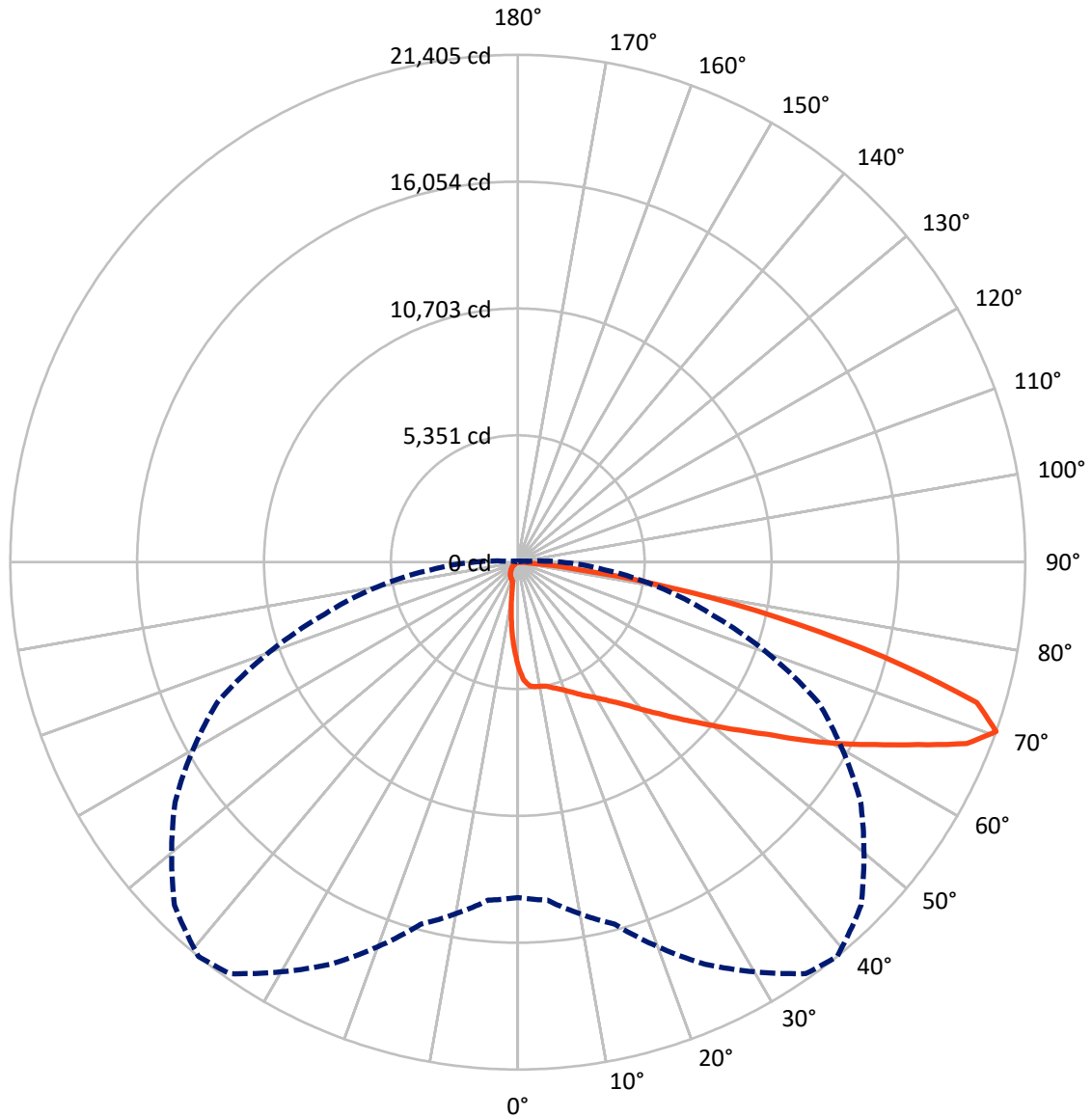
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1859.6	0.0	1859.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	26660.4	0.0	26660.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	28520.0	0.0	28520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.6	1.3
10°-20°	986.4	3.5
20°-30°	1652.4	5.8
30°-40°	2562.7	9.0
40°-50°	4061.2	14.2
50°-60°	5953.1	20.9
60°-70°	7630.4	26.8
70°-80°	4794.7	16.8
80°-90°	499.5	1.8
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°	28520.0	100.0
0°-180°	28520.0	100.0

Coefficient of Utilization



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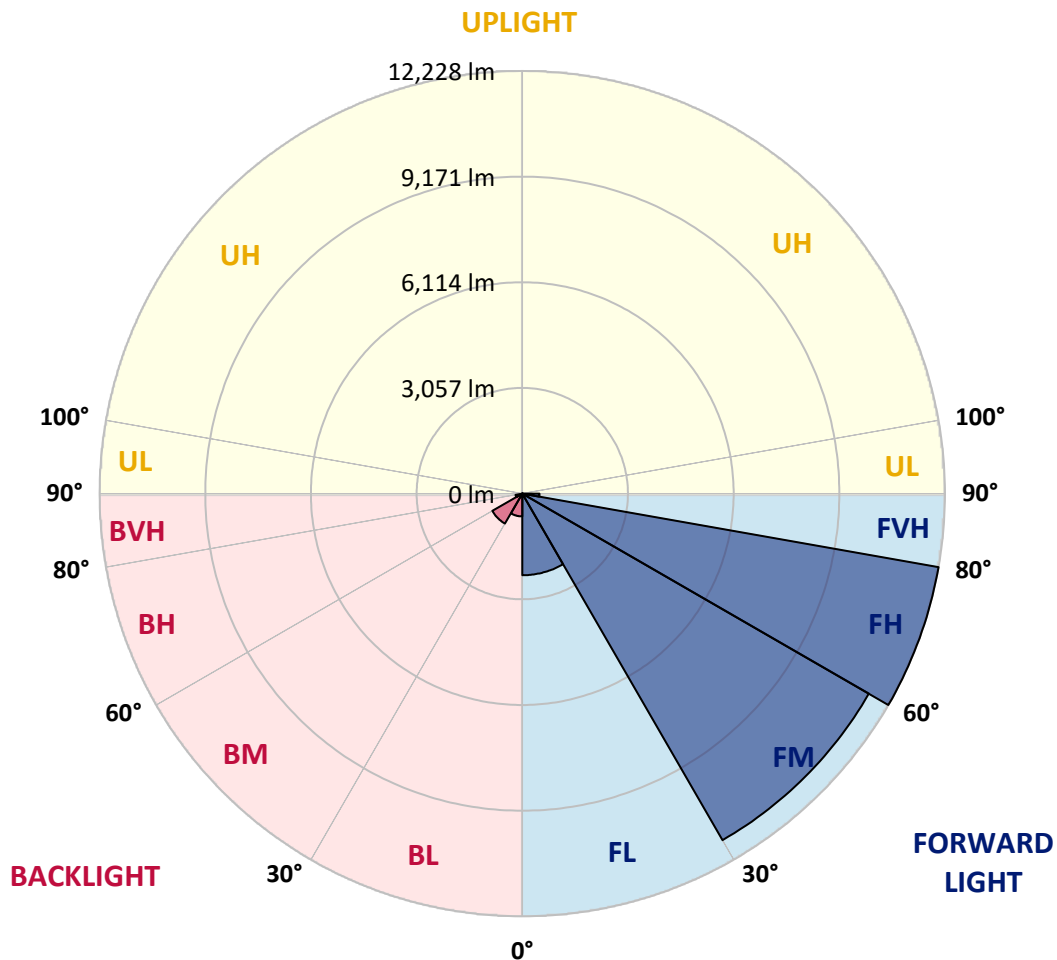
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2359.9	8.3			
FM (30°-60°)	11576.2	40.6			
FH (60°-80°)	12228.4	42.9			G5
FVH (80°-90°)	495.8	1.7			G3/500
BL (0°-30°)	658.5	2.3	B2/1000		
BM (30°-60°)	1000.8	3.5	B2/2500		
BH (60°-80°)	196.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	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°	35°	39°	45°	55°	65°	75°	85°
0°	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1
2.5°	5142.0	5124.7	5101.7	5074.9	4998.2	4984.8	4938.8	4841.1	4724.2	4628.3	4496.1
5°	5385.3	5394.9	5377.7	5329.8	5274.2	5241.6	5184.1	5032.7	4881.3	4687.7	4471.2
7.5°	5440.9	5460.1	5439.0	5393.0	5339.4	5304.9	5258.9	5128.5	4952.2	4731.8	4434.8
10°	5435.2	5458.2	5444.8	5402.6	5358.5	5325.9	5276.1	5172.6	5030.8	4798.9	4446.3
12.5°	5425.6	5456.3	5454.3	5433.3	5396.8	5371.9	5341.3	5249.3	5117.0	4896.6	4509.5
15°	5398.8	5437.1	5471.6	5488.8	5490.8	5490.8	5452.4	5354.7	5228.2	5025.0	4591.9
17.5°	5410.3	5454.3	5540.6	5590.4	5624.9	5621.1	5580.8	5475.4	5335.5	5157.3	4678.2
20°	5481.2	5540.6	5661.3	5761.0	5795.5	5784.0	5730.3	5607.7	5448.6	5270.4	4762.5
22.5°	5655.6	5709.2	5860.6	5977.5	6002.5	5971.8	5895.1	5728.4	5584.7	5393.0	4864.1
25°	5916.2	5979.5	6119.4	6207.5	6207.5	6190.3	6083.0	5887.5	5738.0	5563.6	4996.3
27.5°	6232.4	6286.1	6424.1	6502.7	6456.7	6406.8	6299.5	6063.8	5920.0	5778.2	5155.4
30°	6552.5	6587.0	6732.6	6767.1	6719.2	6656.0	6541.0	6305.3	6178.8	6069.5	5385.3
32.5°	6855.3	6930.0	7050.8	7043.1	6978.0	6947.3	6841.9	6590.8	6519.9	6508.4	5707.3
35°	7158.1	7215.6	7322.9	7349.8	7292.3	7286.5	7209.8	7023.9	7025.9	7100.6	6209.4
37.5°	7418.7	7470.5	7597.0	7656.4	7667.9	7696.6	7666.0	7543.3	7717.7	7922.8	6874.5
40°	7637.2	7710.1	7871.0	7974.5	8093.4	8198.8	8204.5	8231.3	8582.1	8934.7	7742.6
42.5°	7807.8	7909.4	8143.2	8334.8	8607.0	8741.1	8848.5	8996.0	9586.3	10113.3	8766.0
45°	8030.1	8147.0	8438.3	8739.2	9164.7	9385.1	9534.6	9929.4	10766.9	11485.5	9816.3
47.5°	8398.1	8459.4	8756.5	9195.3	9755.0	10069.3	10360.6	10958.5	12033.7	12677.6	10690.2
50°	8871.4	8911.7	9135.9	9745.4	10469.8	10883.8	11414.6	12118.0	13348.4	13666.5	11184.7
52.5°	9394.7	9408.1	9576.7	10351.0	11270.9	11792.2	12386.3	13254.5	14419.7	14371.8	11512.4
55°	10002.2	9983.0	10126.8	11008.3	12219.6	12815.6	13507.4	14417.8	15349.2	14872.0	11700.2
57.5°	10697.9	10646.1	10786.0	11880.3	13434.6	14147.6	14850.9	15422.0	16069.8	15291.7	11790.3
60°	11426.1	11322.6	11489.4	12859.7	14866.2	15542.8	16127.3	16280.6	16828.7	15625.2	11635.0
62.5°	12006.8	12008.7	12319.2	13902.2	16338.1	16930.3	17240.8	17378.8	17482.3	15552.3	10818.6
65°	12913.3	12944.0	13440.4	15349.2	18041.9	18555.5	18768.2	18319.8	17511.0	14647.8	9592.1
67.5°	13848.6	13946.3	14854.7	17342.4	20010.1	20424.1	20150.0	18501.8	16729.1	12583.7	7273.1
70°	14153.3	14314.3	15811.1	18714.6	21190.7	21405.3	20477.7	17652.8	13984.7	8413.4	3660.5
72.5°	12968.9	13229.6	15261.0	18214.4	20437.5	20251.6	18321.7	14804.9	8890.6	3194.8	1117.3
75°	9145.5	9260.5	12683.4	15109.6	16437.8	15910.7	13936.7	9544.1	3656.7	896.9	383.3
77.5°	4722.2	4666.7	7543.3	10025.2	11723.2	11177.0	9126.3	4940.7	1385.6	373.7	237.6
80°	2441.6	2481.9	3263.8	5253.1	7156.2	6585.1	4866.0	2290.2	737.9	207.0	182.1
82.5°	1368.4	1284.1	1876.2	2294.0	3346.2	2623.7	1866.7	1621.4	322.0	124.6	172.5
85°	249.1	260.6	1029.2	1240.0	1161.4	737.9	601.8	1082.8	93.9	69.0	120.7
87.5°	3.8	3.8	199.3	356.5	226.1	103.5	189.7	155.2	19.2	26.8	21.1
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°	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1
2.5°	4429.0	4356.2	4220.1	4086.0	3915.4	3775.5	3681.6	3583.8	3484.2	3491.9	3514.8
5°	4352.4	4225.9	3957.6	3673.9	3401.8	3156.5	2915.0	2698.4	2610.3	2529.8	2533.6
7.5°	4275.7	4097.5	3704.6	3260.0	2847.9	2430.1	2127.3	1878.2	1745.9	1646.3	1617.5
10°	4241.2	4005.5	3472.7	2861.3	2276.8	1820.7	1431.6	1228.5	1071.3	1021.5	1034.9
12.5°	4256.5	3959.5	3263.8	2501.0	1805.3	1268.7	996.6	893.1	858.6	852.8	849.0
15°	4285.3	3926.9	3058.7	2102.4	1326.2	942.9	837.5	818.3	814.5	810.7	812.6
17.5°	4323.6	3898.1	2840.2	1728.7	1017.7	824.1	793.4	783.8	781.9	781.9	781.9
20°	4361.9	3865.6	2596.8	1395.2	849.0	778.1	758.9	753.2	751.3	751.3	749.3
22.5°	4406.0	3836.8	2349.6	1096.2	781.9	745.5	728.3	724.4	722.5	720.6	720.6
25°	4469.3	3800.4	2087.1	896.9	739.8	714.9	697.6	693.8	691.9	684.2	686.1
27.5°	4553.6	3773.6	1816.8	774.3	701.4	676.5	665.0	659.3	655.4	649.7	651.6
30°	4668.6	3750.6	1529.4	707.2	657.4	636.3	624.8	620.9	617.1	611.4	611.4
32.5°	4867.9	3760.2	1226.6	653.5	617.1	592.2	580.7	576.9	573.0	567.3	567.3
35°	5166.9	3815.7	981.2	607.5	569.2	544.3	532.8	532.8	527.0	519.4	517.5
37.5°	5655.6	3957.6	787.7	563.4	523.2	500.2	486.8	483.0	477.2	465.7	463.8
40°	6232.4	4178.0	663.1	519.4	481.0	458.0	446.5	435.0	419.7	408.2	406.3
42.5°	6956.9	4404.1	574.9	475.3	440.8	419.7	406.3	387.1	364.1	348.8	346.9
45°	7712.0	4611.1	515.5	435.0	402.5	385.2	369.9	339.2	310.5	291.3	289.4
47.5°	8275.4	4649.4	467.6	396.7	369.9	352.6	331.6	293.2	254.9	237.6	231.9
50°	8541.8	4463.5	417.8	358.4	337.3	318.1	291.3	247.2	205.1	184.0	180.2
52.5°	8635.7	4141.5	377.5	323.9	304.7	281.7	249.1	199.3	161.0	139.9	138.0
55°	8597.4	3735.2	341.1	291.3	266.4	239.6	207.0	159.1	118.8	101.6	97.7
57.5°	8396.2	3217.8	304.7	258.7	228.1	201.2	164.8	118.8	80.5	65.2	63.2
60°	7853.8	2512.5	268.3	222.3	193.6	164.8	130.3	84.3	49.8	36.4	36.4
62.5°	6937.7	1864.7	233.8	185.9	162.9	132.2	92.0	53.7	26.8	19.2	17.2
65°	5797.4	1376.0	195.5	157.2	136.1	103.5	65.2	32.6	13.4	5.7	3.8
67.5°	4045.7	849.0	162.9	128.4	111.2	74.7	40.2	13.4	5.7	0.0	0.0
70°	1837.9	404.4	124.6	97.7	84.3	53.7	21.1	7.7	3.8	0.0	0.0
72.5°	571.1	212.7	88.2	70.9	57.5	34.5	11.5	5.7	3.8	0.0	0.0
75°	264.5	136.1	55.6	38.3	32.6	17.2	7.7	3.8	1.9	0.0	0.0
77.5°	197.4	105.4	32.6	21.1	17.2	11.5	5.7	3.8	1.9	0.0	0.0
80°	172.5	53.7	19.2	13.4	9.6	7.7	3.8	1.9	0.0	0.0	0.0
82.5°	155.2	26.8	11.5	7.7	5.7	3.8	1.9	1.9	0.0	0.0	0.0
85°	84.3	15.3	7.7	5.7	3.8	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	15.3	7.7	5.7	3.8	3.8	1.9	1.9	1.9	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)