

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: P455768

Luminaire Tested: **GALN-SA7A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455768
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-SA7A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21912 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

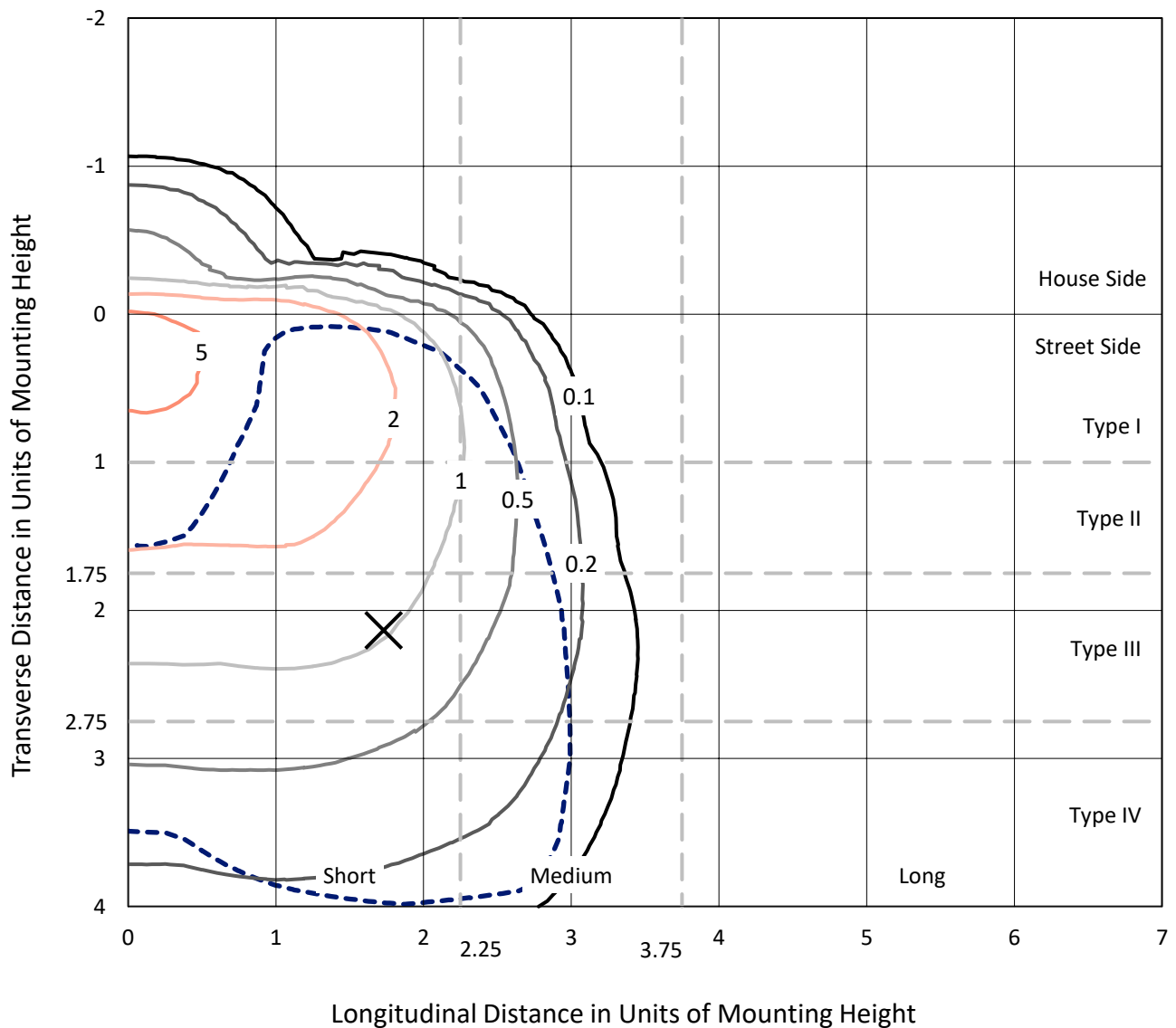
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

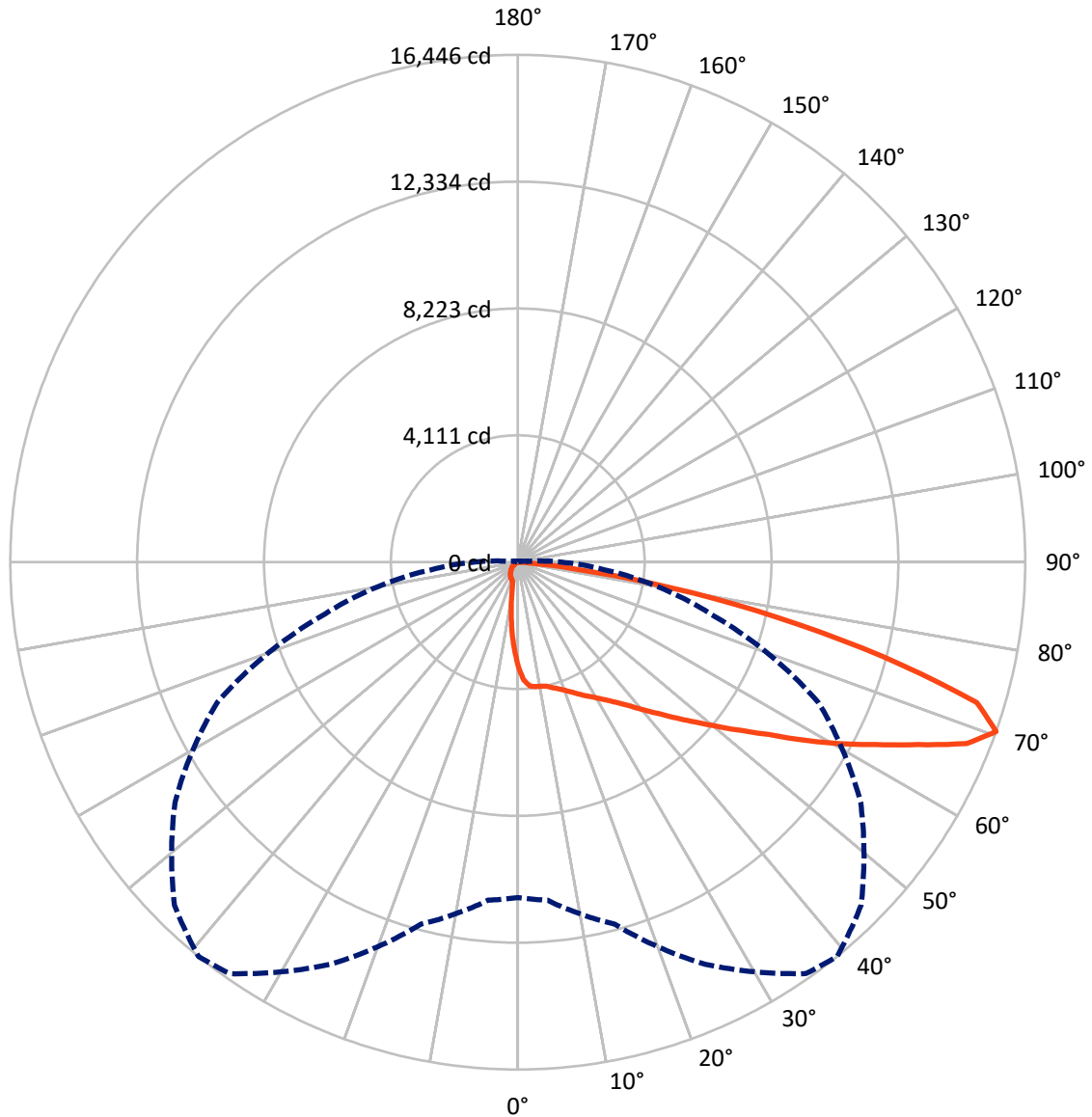
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1428.8	0.0	1428.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	20483.2	0.0	20483.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	21912.0	0.0	21912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	1.3
10°-20°	757.8	3.5
20°-30°	1269.6	5.8
30°-40°	1969.0	9.0
40°-50°	3120.2	14.2
50°-60°	4573.8	20.9
60°-70°	5862.5	26.8
70°-80°	3683.8	16.8
80°-90°	383.8	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°	21912.0	100.0
0°-180°	21912.0	100.0



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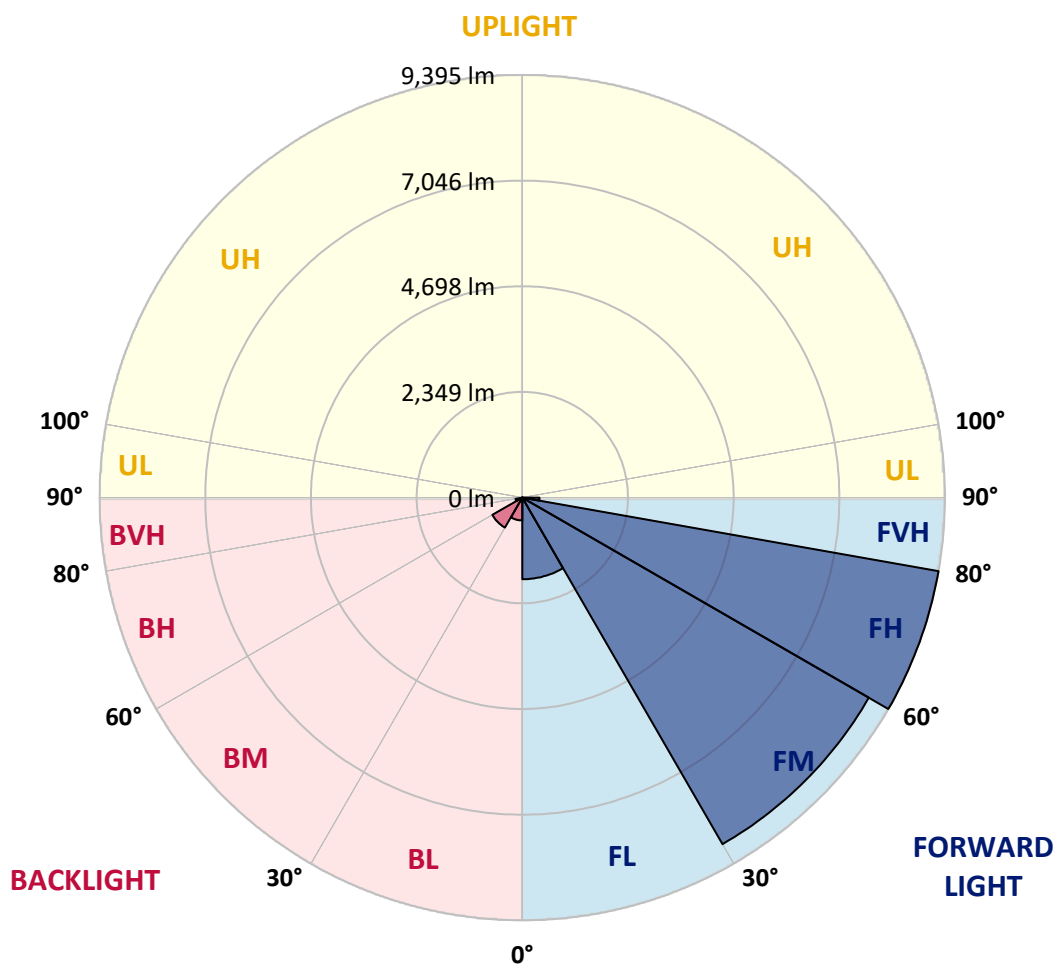
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.1	8.3			
FM	(30°-60°)	8894.0	40.6			
FH	(60°-80°)	9395.2	42.9			G4/12000
FVH	(80°-90°)	380.9	1.7			G3/500
BL	(0°-30°)	505.9	2.3	B2/1000		
BM	(30°-60°)	768.9	3.5	B1/1000		
BH	(60°-80°)	151.1	0.7	B1/500		G1/500
BVH	(80°-90°)	2.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0
2.5°	3950.6	3937.3	3919.7	3899.0	3840.1	3829.8	3794.5	3719.4	3629.6	3556.0	3454.4
5°	4137.6	4144.9	4131.7	4094.9	4052.2	4027.1	3983.0	3866.6	3750.3	3601.6	3435.2
7.5°	4180.3	4195.0	4178.8	4143.5	4102.2	4075.7	4040.4	3940.3	3804.8	3635.5	3407.2
10°	4175.9	4193.5	4183.2	4150.8	4117.0	4091.9	4053.6	3974.1	3865.2	3687.0	3416.1
12.5°	4168.5	4192.1	4190.6	4174.4	4146.4	4127.3	4103.7	4033.0	3931.4	3762.1	3464.7
15°	4147.9	4177.3	4203.8	4217.1	4218.6	4218.6	4189.1	4114.0	4016.8	3860.8	3528.0
17.5°	4156.7	4190.6	4256.8	4295.1	4321.6	4318.7	4287.8	4206.8	4099.3	3962.4	3594.2
20°	4211.2	4256.8	4349.6	4426.2	4452.7	4443.8	4402.6	4308.4	4186.2	4049.2	3659.0
22.5°	4345.2	4386.4	4502.7	4592.6	4611.7	4588.1	4529.2	4401.1	4290.7	4143.5	3737.1
25°	4545.4	4594.0	4701.5	4769.3	4769.3	4756.0	4673.5	4523.4	4408.5	4274.5	3838.7
27.5°	4788.4	4829.6	4935.6	4996.0	4960.7	4922.4	4839.9	4658.8	4548.4	4439.4	3960.9
30°	5034.3	5060.8	5172.7	5199.2	5162.4	5113.8	5025.5	4844.4	4747.2	4663.2	4137.6
32.5°	5266.9	5324.4	5417.1	5411.2	5361.2	5337.6	5256.6	5063.7	5009.3	5000.4	4384.9
35°	5499.6	5543.8	5626.2	5646.8	5602.7	5598.2	5539.3	5396.5	5398.0	5455.4	4770.7
37.5°	5699.8	5739.6	5836.8	5882.4	5891.3	5913.4	5889.8	5795.6	5929.5	6087.1	5281.7
40°	5867.7	5923.7	6047.3	6126.9	6218.1	6299.1	6303.5	6324.2	6593.6	6864.6	5948.7
42.5°	5998.8	6076.8	6256.4	6403.7	6612.8	6715.8	6798.3	6911.7	7365.2	7770.1	6735.0
45°	6169.6	6259.4	6483.2	6714.4	7041.2	7210.6	7325.4	7628.8	8272.2	8824.4	7541.9
47.5°	6452.3	6499.4	6727.6	7064.8	7494.8	7736.2	7960.1	8419.5	9245.5	9740.2	8213.3
50°	6816.0	6846.9	7019.2	7487.4	8044.0	8362.0	8769.9	9310.3	10255.6	10500.0	8593.2
52.5°	7217.9	7228.2	7357.8	7952.7	8659.5	9060.0	9516.4	10183.4	11078.7	11041.9	8845.0
55°	7684.7	7670.0	7780.4	8457.7	9388.3	9846.3	10377.8	11077.2	11792.8	11426.2	8989.3
57.5°	8219.2	8179.4	8286.9	9127.7	10321.9	10869.6	11410.0	11848.8	12346.5	11748.7	9058.5
60°	8778.7	8699.2	8827.3	9880.1	11421.8	11941.6	12390.6	12508.4	12929.6	12004.9	8939.2
62.5°	9224.9	9226.4	9464.9	10681.1	12552.6	13007.6	13246.1	13352.2	13431.7	11948.9	8312.0
65°	9921.4	9944.9	10326.3	11792.8	13861.6	14256.2	14419.7	14075.1	13453.8	11253.9	7369.6
67.5°	10639.9	10715.0	11412.9	13324.2	15373.8	15691.9	15481.3	14215.0	12853.0	9668.1	5587.9
70°	10874.0	10997.7	12147.7	14378.5	16280.9	16445.8	15733.1	13562.7	10744.5	6464.0	2812.4
72.5°	9964.1	10164.3	11725.1	13994.1	15702.2	15559.4	14076.6	11374.7	6830.7	2454.6	858.4
75°	7026.5	7114.9	9744.7	11608.8	12629.2	12224.3	10707.6	7332.8	2809.4	689.1	294.5
77.5°	3628.1	3585.4	5795.6	7702.4	9007.0	8587.3	7011.8	3796.0	1064.6	287.1	182.6
80°	1875.9	1906.8	2507.6	4036.0	5498.1	5059.3	3738.5	1759.6	566.9	159.0	139.9
82.5°	1051.3	986.5	1441.5	1762.5	2570.9	2015.8	1434.2	1245.7	247.4	95.7	132.5
85°	191.4	200.3	790.7	952.7	892.3	566.9	462.3	831.9	72.1	53.0	92.8
87.5°	2.9	2.9	153.1	273.9	173.7	79.5	145.8	119.3	14.7	20.6	16.2
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°	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0
2.5°	3402.8	3346.9	3242.3	3139.3	3008.2	2900.7	2828.6	2753.5	2676.9	2682.8	2700.5
5°	3343.9	3246.7	3040.6	2822.7	2613.6	2425.1	2239.6	2073.2	2005.5	1943.6	1946.6
7.5°	3285.0	3148.1	2846.2	2504.6	2188.1	1867.1	1634.4	1443.0	1341.4	1264.8	1242.7
10°	3258.5	3077.4	2668.1	2198.4	1749.3	1398.8	1099.9	943.8	823.1	784.8	795.1
12.5°	3270.3	3042.1	2507.6	1921.5	1387.0	974.8	765.7	686.2	659.7	655.2	652.3
15°	3292.4	3017.0	2350.0	1615.3	1018.9	724.4	643.5	628.7	625.8	622.8	624.3
17.5°	3321.8	2995.0	2182.2	1328.1	781.9	633.2	609.6	602.2	600.8	600.8	600.8
20°	3351.3	2969.9	1995.2	1071.9	652.3	597.8	583.1	578.7	577.2	577.2	575.7
22.5°	3385.2	2947.8	1805.2	842.2	600.8	572.8	559.5	556.6	555.1	553.6	553.6
25°	3433.7	2919.9	1603.5	689.1	568.4	549.2	536.0	533.0	531.6	525.7	527.1
27.5°	3498.5	2899.2	1395.9	594.9	538.9	519.8	510.9	506.5	503.6	499.2	500.6
30°	3586.9	2881.6	1175.0	543.3	505.0	488.9	480.0	477.1	474.1	469.7	469.7
32.5°	3740.0	2888.9	942.4	502.1	474.1	455.0	446.2	443.2	440.3	435.8	435.8
35°	3969.7	2931.6	753.9	466.8	437.3	418.2	409.3	409.3	404.9	399.0	397.6
37.5°	4345.2	3040.6	605.2	432.9	402.0	384.3	374.0	371.1	366.6	357.8	356.3
40°	4788.4	3209.9	509.5	399.0	369.6	351.9	343.1	334.2	322.5	313.6	312.2
42.5°	5345.0	3383.7	441.7	365.2	338.7	322.5	312.2	297.4	279.8	268.0	266.5
45°	5925.1	3542.7	396.1	334.2	309.2	296.0	284.2	260.6	238.5	223.8	222.3
47.5°	6358.0	3572.2	359.3	304.8	284.2	270.9	254.7	225.3	195.8	182.6	178.2
50°	6562.7	3429.3	321.0	275.3	259.2	244.4	223.8	189.9	157.6	141.4	138.4
52.5°	6634.8	3182.0	290.1	248.8	234.1	216.4	191.4	153.1	123.7	107.5	106.0
55°	6605.4	2869.8	262.1	223.8	204.7	184.1	159.0	122.2	91.3	78.0	75.1
57.5°	6450.8	2472.2	234.1	198.8	175.2	154.6	126.6	91.3	61.8	50.1	48.6
60°	6034.1	1930.4	206.1	170.8	148.7	126.6	100.1	64.8	38.3	28.0	28.0
62.5°	5330.3	1432.7	179.6	142.8	125.2	101.6	70.7	41.2	20.6	14.7	13.3
65°	4454.2	1057.2	150.2	120.7	104.5	79.5	50.1	25.0	10.3	4.4	2.9
67.5°	3108.3	652.3	125.2	98.7	85.4	57.4	30.9	10.3	4.4	0.0	0.0
70°	1412.1	310.7	95.7	75.1	64.8	41.2	16.2	5.9	2.9	0.0	0.0
72.5°	438.8	163.4	67.7	54.5	44.2	26.5	8.8	4.4	2.9	0.0	0.0
75°	203.2	104.5	42.7	29.4	25.0	13.3	5.9	2.9	1.5	0.0	0.0
77.5°	151.7	81.0	25.0	16.2	13.3	8.8	4.4	2.9	1.5	0.0	0.0
80°	132.5	41.2	14.7	10.3	7.4	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	119.3	20.6	8.8	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
85°	64.8	11.8	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	11.8	5.9	4.4	2.9	2.9	1.5	1.5	1.5	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)