

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: P456007

Luminaire Tested: **GALN-SA7B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24778 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

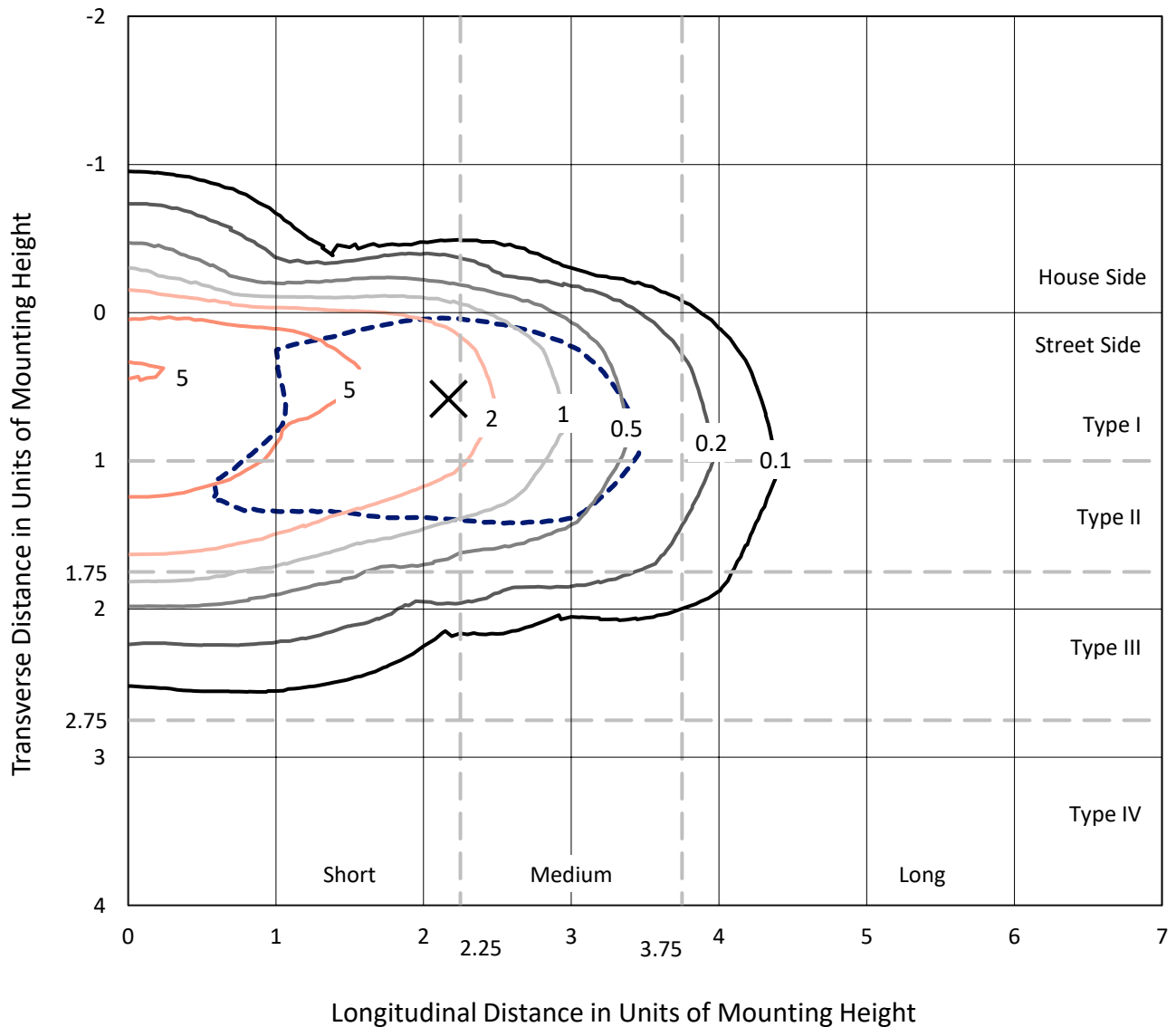
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

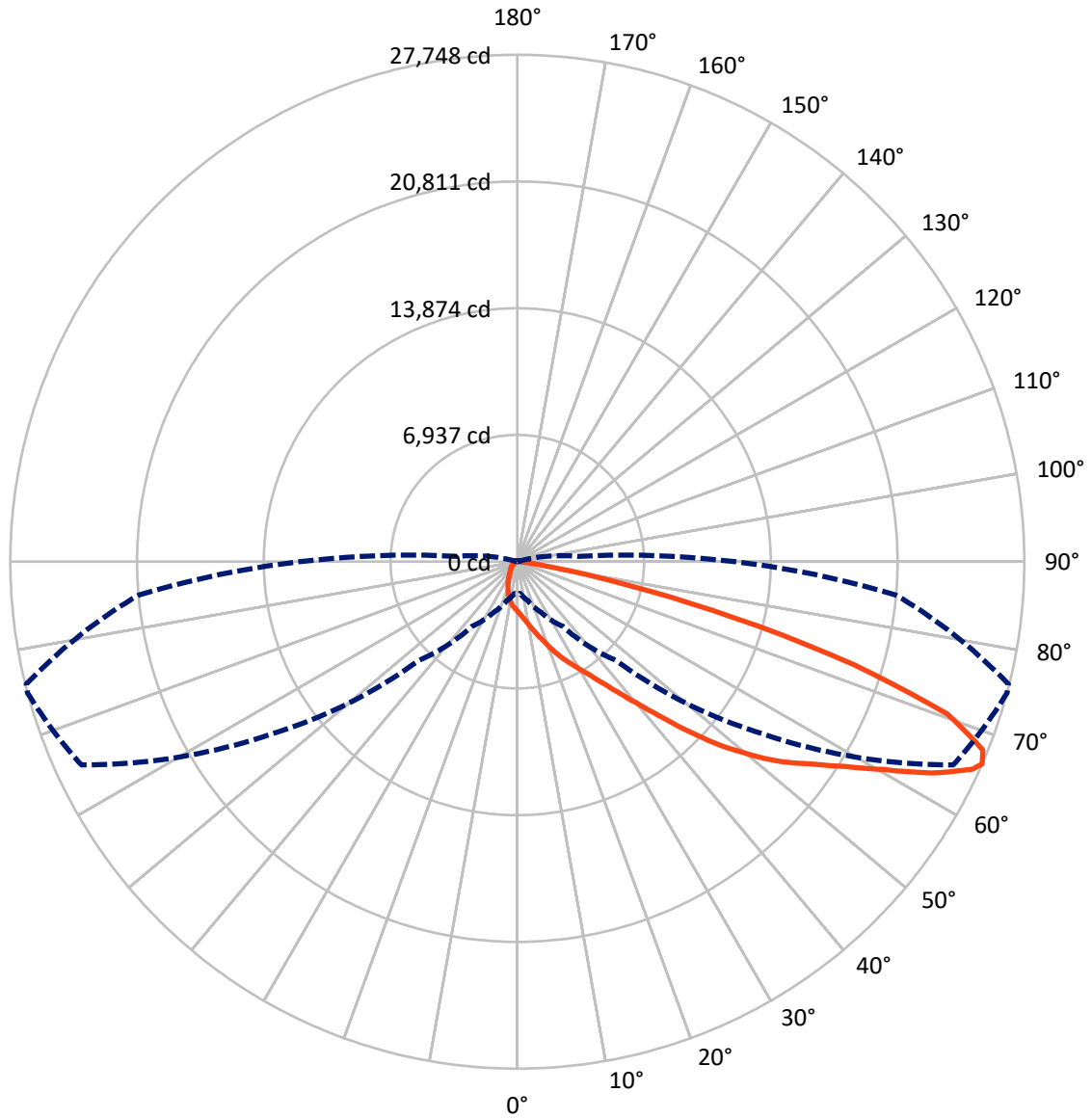
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.7	0.0	1529.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23248.3	0.0	23248.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	24778.0	0.0	24778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	1.1
10°-20°	769.2	3.1
20°-30°	1328.2	5.4
30°-40°	2395.8	9.7
40°-50°	4328.1	17.5
50°-60°	6747.6	27.2
60°-70°	6409.9	25.9
70°-80°	2402.3	9.7
80°-90°	135.5	0.5
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°	24778.0	100.0
0°-180°	24778.0	100.0

Coefficient of Utilization



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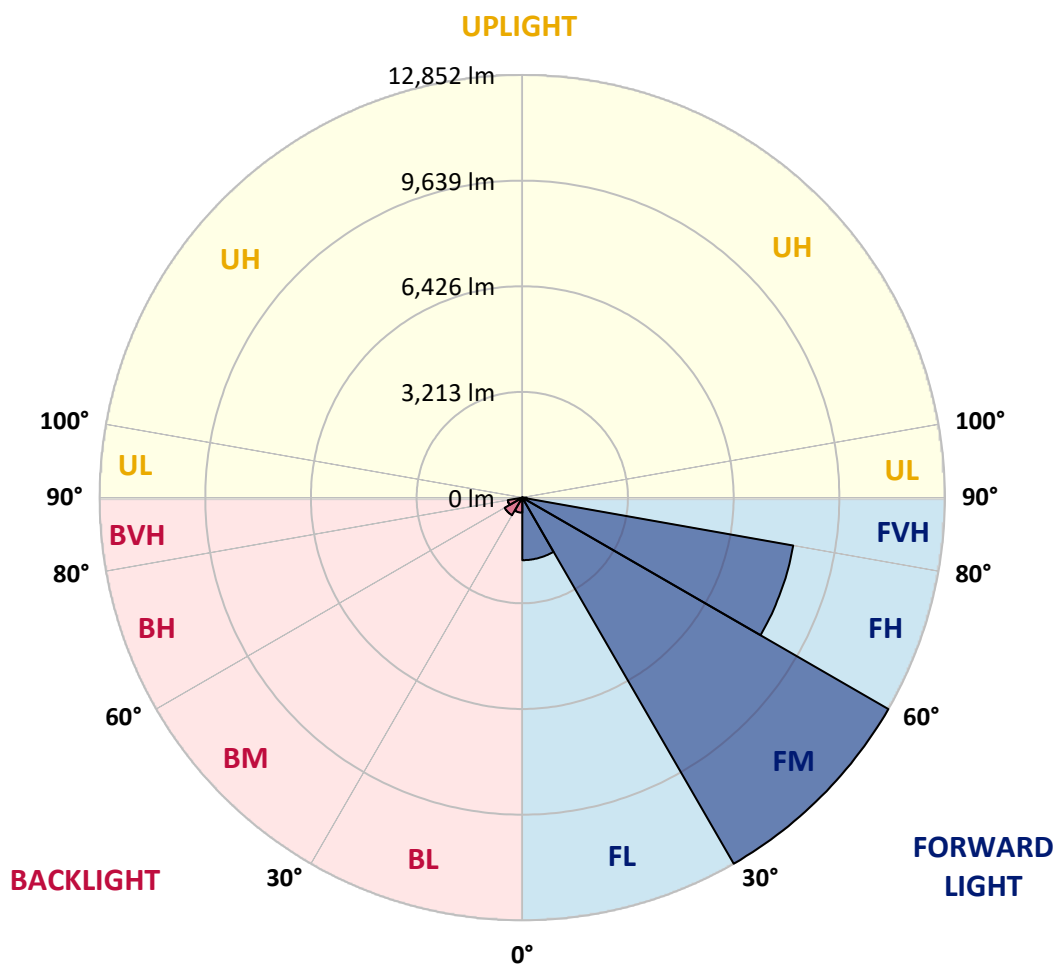
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1901.9	7.7			
FM	(30°-60°)	12852.3	51.9			
FH	(60°-80°)	8365.5	33.8			G4/12000
FVH	(80°-90°)	128.5	0.5			G2/225
BL	(0°-30°)	456.8	1.8	B1/500		
BM	(30°-60°)	619.2	2.5	B1/1000		
BH	(60°-80°)	446.7	1.8	B1/500		G1/500
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7
2.5°	3237.4	3197.1	3209.9	3191.6	3149.4	3087.1	3032.2	2953.4	2874.6	2861.8	2773.8
5°	3664.3	3653.3	3638.6	3585.5	3556.2	3460.9	3347.3	3211.7	3048.7	3019.3	2860.0
7.5°	3955.6	3950.1	3957.4	3929.9	3904.3	3818.2	3697.2	3512.2	3259.4	3242.9	2977.2
10°	4050.8	4065.5	4093.0	4136.9	4177.3	4149.8	4058.2	3827.3	3532.3	3484.7	3111.0
12.5°	3995.9	4012.4	4078.3	4195.6	4325.7	4400.8	4364.1	4195.6	3821.8	3783.3	3261.2
15°	3854.8	3875.0	3968.4	4149.8	4382.5	4595.0	4686.6	4565.7	4158.9	4096.6	3442.6
17.5°	3645.9	3675.3	3809.0	4049.0	4367.8	4734.2	4992.6	4952.2	4518.0	4459.4	3640.4
20°	3488.4	3510.4	3624.0	3898.8	4305.5	4811.2	5283.9	5397.5	4961.4	4860.6	3873.1
22.5°	3592.8	3600.1	3638.6	3803.5	4193.7	4831.3	5540.4	5861.0	5432.3	5342.5	4115.0
25°	4104.0	4030.7	3992.2	3955.6	4169.9	4813.0	5773.0	6344.7	5901.3	5806.0	4355.0
27.5°	4910.1	4877.1	4682.9	4422.8	4373.3	4836.8	5926.9	6802.7	6342.8	6240.2	4589.5
30°	5787.7	5730.9	5611.8	5230.7	4847.8	5005.4	6038.7	7247.9	6865.0	6729.4	4803.8
32.5°	6593.8	6630.5	6452.8	6060.7	5617.3	5364.5	6183.4	7733.4	7464.1	7295.5	5053.0
35°	7533.7	7607.0	7334.0	6958.4	6439.9	6013.0	6465.6	8281.2	8224.4	8011.9	5437.8
37.5°	8488.3	8532.2	8365.5	7837.8	7370.7	6837.5	6996.9	8957.3	9160.6	8979.3	5897.6
40°	9290.7	9351.2	9228.4	8759.4	8261.1	7792.0	7768.2	9693.8	10274.6	10087.7	6582.8
42.5°	9904.5	9950.3	9954.0	9622.3	9173.5	8960.9	8752.1	10633.7	11670.7	11454.5	7378.0
45°	10679.5	10745.4	10707.0	10481.6	10146.3	10107.9	9999.8	11769.6	13341.6	13068.6	8409.5
47.5°	11877.7	11921.7	11826.4	11560.7	11220.0	11280.4	11216.3	13042.9	15045.4	14810.9	9477.6
50°	12709.5	12782.8	12918.3	13024.6	12777.3	12553.7	12363.2	14232.0	16663.2	16452.5	10569.6
52.5°	12700.3	12821.2	13250.0	13784.9	14325.4	14257.6	13709.8	15545.6	18207.7	17947.5	11595.5
55°	11844.7	12079.2	12709.5	13658.5	15155.4	15901.1	15651.9	17066.3	19541.5	19365.6	12784.6
57.5°	10078.5	10221.4	11097.2	12423.7	14691.8	16674.2	17901.7	19127.4	21140.9	21058.5	14631.4
60°	6778.9	6843.0	7969.8	9609.5	12507.9	15902.9	19550.7	21621.0	23110.5	23070.2	16787.8
62.5°	3884.1	3911.6	4728.7	6112.0	8900.5	13477.1	19689.9	24697.1	25472.1	25494.1	19283.2
65°	2090.5	2105.1	2764.7	3587.3	5415.8	9605.9	17705.7	26382.7	27381.2	27423.3	20829.5
66°	1804.6	1735.0	2200.4	3057.8	4309.2	7645.5	16450.7	26322.2	27747.6	27701.8	20774.5
67.5°	1372.3	1434.6	1757.0	2350.6	3193.4	5435.9	13581.6	25151.5	27469.1	27326.2	19929.9
70°	982.0	1007.7	1251.3	1676.4	2174.7	2982.7	8678.8	20889.9	24966.4	24774.1	17363.1
72.5°	633.9	661.4	886.8	1212.9	1572.0	1628.8	4858.8	15093.1	19248.4	19220.9	13075.9
75°	452.5	478.2	586.3	868.4	1181.7	1007.7	2339.6	10172.0	12236.8	12154.3	8088.9
77.5°	328.0	340.8	392.1	568.0	844.6	721.9	1084.6	5432.3	6091.8	6379.5	3574.5
80°	188.7	199.7	273.0	346.3	571.6	492.8	518.5	2180.2	2248.0	2139.9	1117.6
82.5°	93.4	106.3	163.1	236.3	357.3	331.6	238.2	655.9	692.5	674.2	282.1
85°	22.0	27.5	91.6	155.7	174.1	148.4	115.4	192.4	238.2	232.7	108.1
87.5°	1.8	3.7	33.0	27.5	29.3	49.5	40.3	49.5	76.9	71.5	38.5
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°	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7	2709.7
2.5°	2733.5	2698.7	2598.0	2499.0	2416.6	2330.5	2251.7	2205.9	2187.6	2167.4	2176.6
5°	2772.0	2687.7	2484.4	2308.5	2136.3	1989.7	1872.4	1797.3	1760.7	1755.2	1746.0
7.5°	2823.3	2678.6	2363.4	2088.6	1863.3	1700.2	1566.5	1458.4	1425.4	1396.1	1372.3
10°	2885.6	2662.1	2213.2	1857.8	1617.8	1412.6	1236.7	1108.4	1042.5	1024.2	1037.0
12.5°	2951.6	2630.9	2055.6	1645.3	1368.6	1106.6	943.5	879.4	861.1	853.8	855.6
15°	3017.5	2592.5	1890.8	1440.1	1090.1	883.1	808.0	791.5	784.2	780.5	776.8
17.5°	3078.0	2530.2	1705.7	1240.4	883.1	754.8	727.4	712.7	698.0	692.5	683.4
20°	3149.4	2458.7	1539.0	1016.8	747.5	683.4	650.4	622.9	600.9	586.3	584.4
22.5°	3217.2	2367.1	1364.9	842.8	681.6	613.8	560.6	531.3	505.7	487.3	492.8
25°	3253.9	2255.4	1209.2	734.7	621.1	544.1	485.5	448.9	421.4	412.2	410.4
27.5°	3253.9	2117.9	1057.1	672.4	566.1	481.9	421.4	386.6	368.3	355.4	357.3
30°	3228.2	1965.9	916.1	624.8	518.5	426.9	370.1	338.9	324.3	315.1	313.3
32.5°	3208.1	1821.1	795.1	579.0	469.0	379.3	329.8	306.0	291.3	282.1	282.1
35°	3239.2	1696.6	701.7	533.1	423.2	342.6	298.6	276.7	262.0	254.7	252.8
37.5°	3321.7	1583.0	630.3	483.7	381.1	311.5	276.7	251.0	236.3	227.2	223.5
40°	3525.0	1518.8	577.1	437.9	340.8	285.8	251.0	227.2	208.9	199.7	197.9
42.5°	3851.1	1520.7	525.8	395.7	309.6	263.8	229.0	201.5	181.4	172.2	170.4
45°	4342.1	1590.3	485.5	355.4	282.1	240.0	205.2	175.9	157.6	148.4	148.4
47.5°	4930.3	1725.9	450.7	320.6	256.5	218.0	181.4	152.1	133.7	126.4	126.4
50°	5567.8	1901.8	415.9	284.0	234.5	194.2	155.7	131.9	117.3	111.8	111.8
52.5°	6218.2	2114.3	381.1	254.7	210.7	168.6	133.7	117.3	104.4	100.8	98.9
55°	7072.0	2385.4	344.4	223.5	185.0	144.7	119.1	102.6	87.9	82.4	80.6
57.5°	8385.7	2794.0	304.1	196.0	152.1	120.9	102.6	86.1	69.6	60.5	58.6
60°	9970.4	3292.3	262.0	172.2	122.8	98.9	82.4	66.0	51.3	40.3	38.5
62.5°	11454.5	3609.3	221.7	144.7	97.1	75.1	58.6	49.5	36.6	25.6	23.8
65°	12110.4	3503.0	183.2	117.3	76.9	53.1	38.5	34.8	22.0	11.0	9.2
66°	11892.4	3345.5	168.6	106.3	69.6	45.8	33.0	29.3	16.5	5.5	5.5
67.5°	11249.3	2973.5	146.6	91.6	60.5	36.6	25.6	22.0	9.2	1.8	0.0
70°	9638.8	2405.6	115.4	67.8	44.0	25.6	14.7	11.0	5.5	0.0	0.0
72.5°	7403.6	1791.8	91.6	51.3	31.1	14.7	7.3	3.7	5.5	0.0	0.0
75°	4536.4	1024.2	71.5	38.5	20.2	9.2	5.5	0.0	5.5	1.8	0.0
77.5°	2013.5	459.9	47.6	25.6	14.7	7.3	3.7	0.0	3.7	1.8	0.0
80°	509.3	150.2	27.5	18.3	11.0	5.5	1.8	0.0	3.7	3.7	1.8
82.5°	139.2	55.0	20.2	14.7	9.2	5.5	1.8	0.0	3.7	3.7	3.7
85°	55.0	25.6	18.3	14.7	11.0	5.5	1.8	0.0	3.7	3.7	3.7
87.5°	25.6	18.3	18.3	16.5	12.8	5.5	1.8	0.0	3.7	1.8	3.7
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)