

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: P456145

Luminaire Tested: **GALN-SA7B-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456145
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-SA7B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 23966 lumens
Efficiency: N/A
Efficacy: 83.8 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

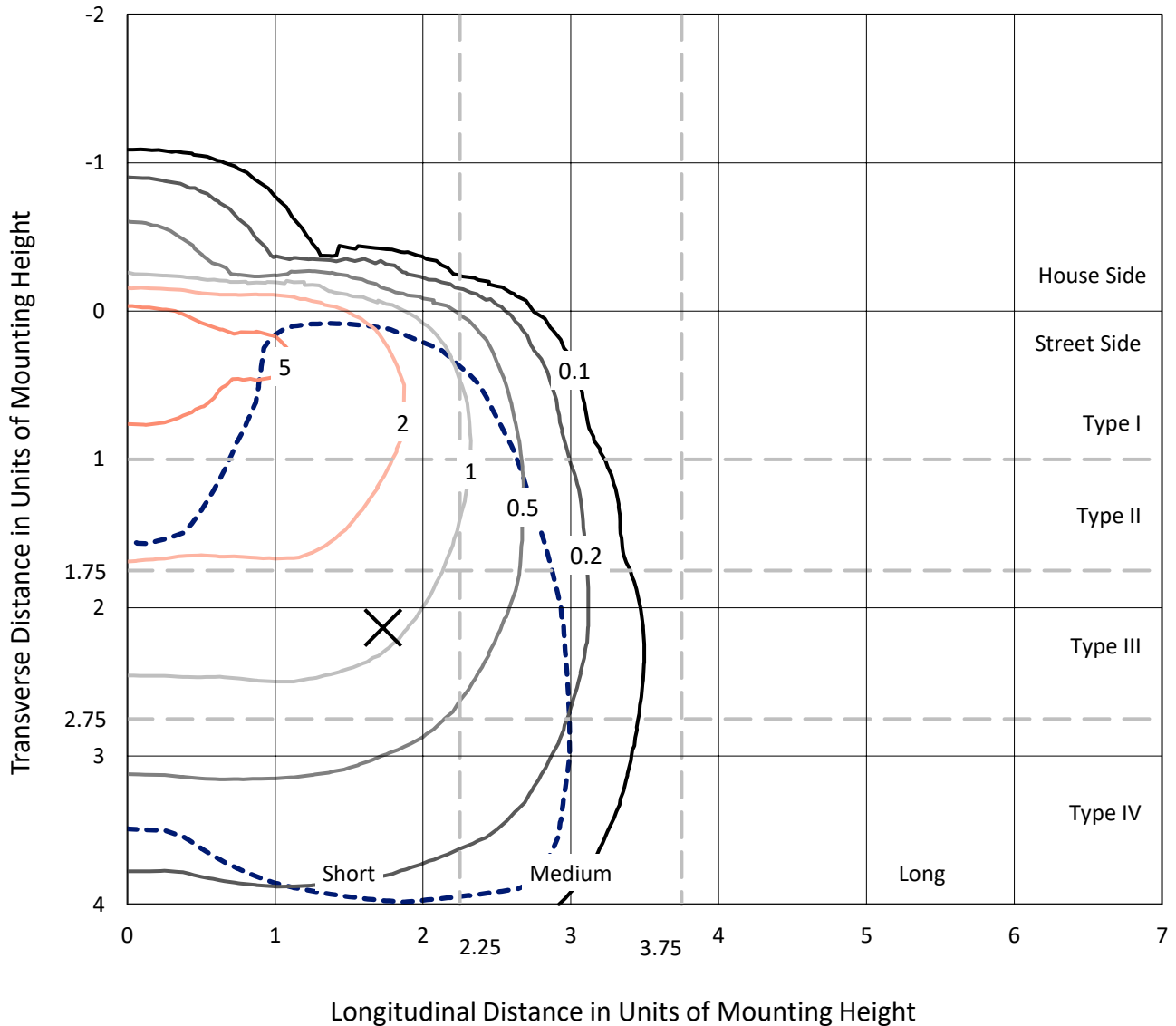
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

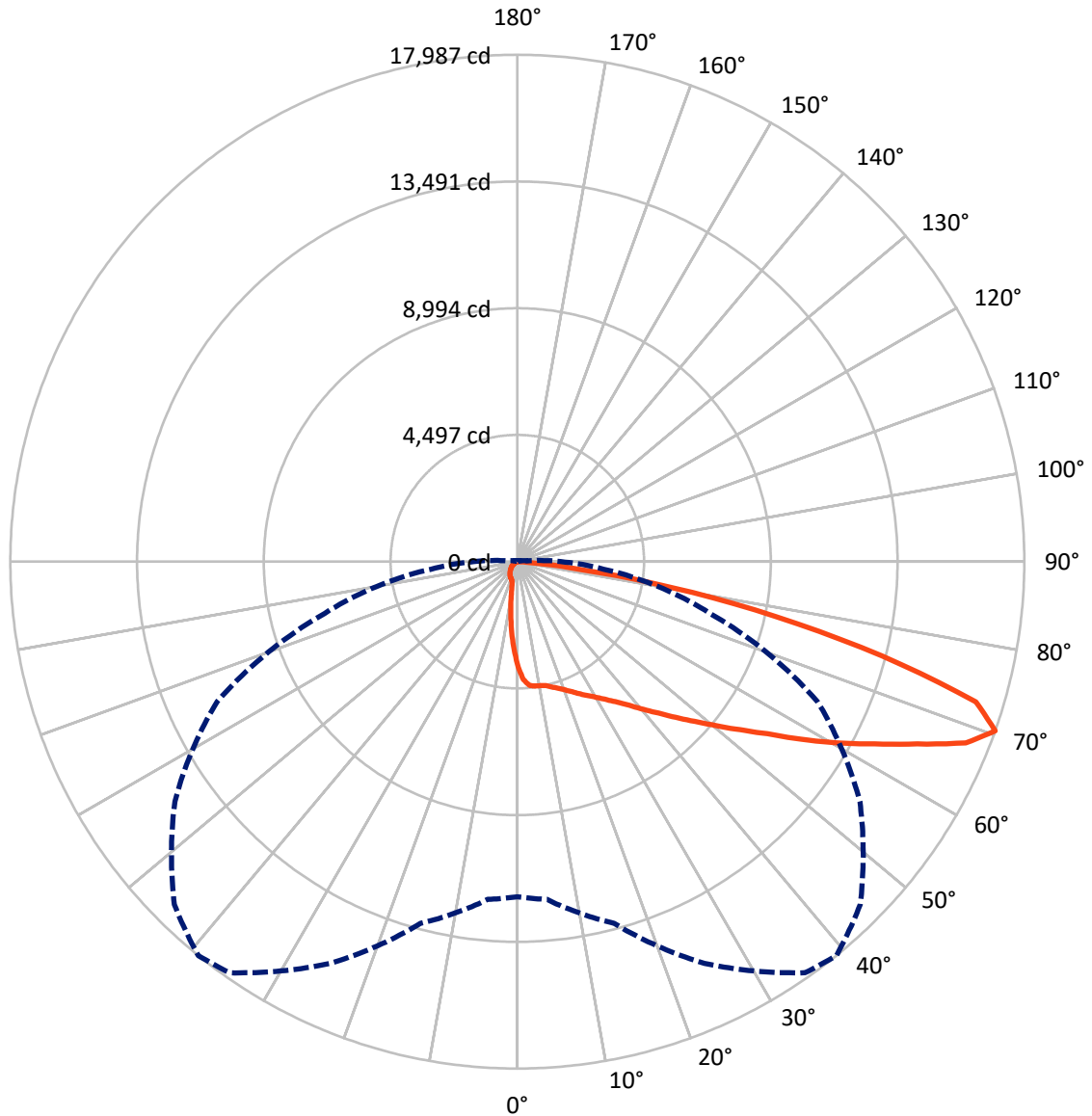
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1562.7	0.0	1562.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	22403.3	0.0	22403.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	23966.0	0.0	23966.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	1.3
10°-20°	828.9	3.5
20°-30°	1388.6	5.8
30°-40°	2153.5	9.0
40°-50°	3412.7	14.2
50°-60°	5002.5	20.9
60°-70°	6412.0	26.8
70°-80°	4029.1	16.8
80°-90°	419.7	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°	23966.0	100.0
0°-180°	23966.0	100.0



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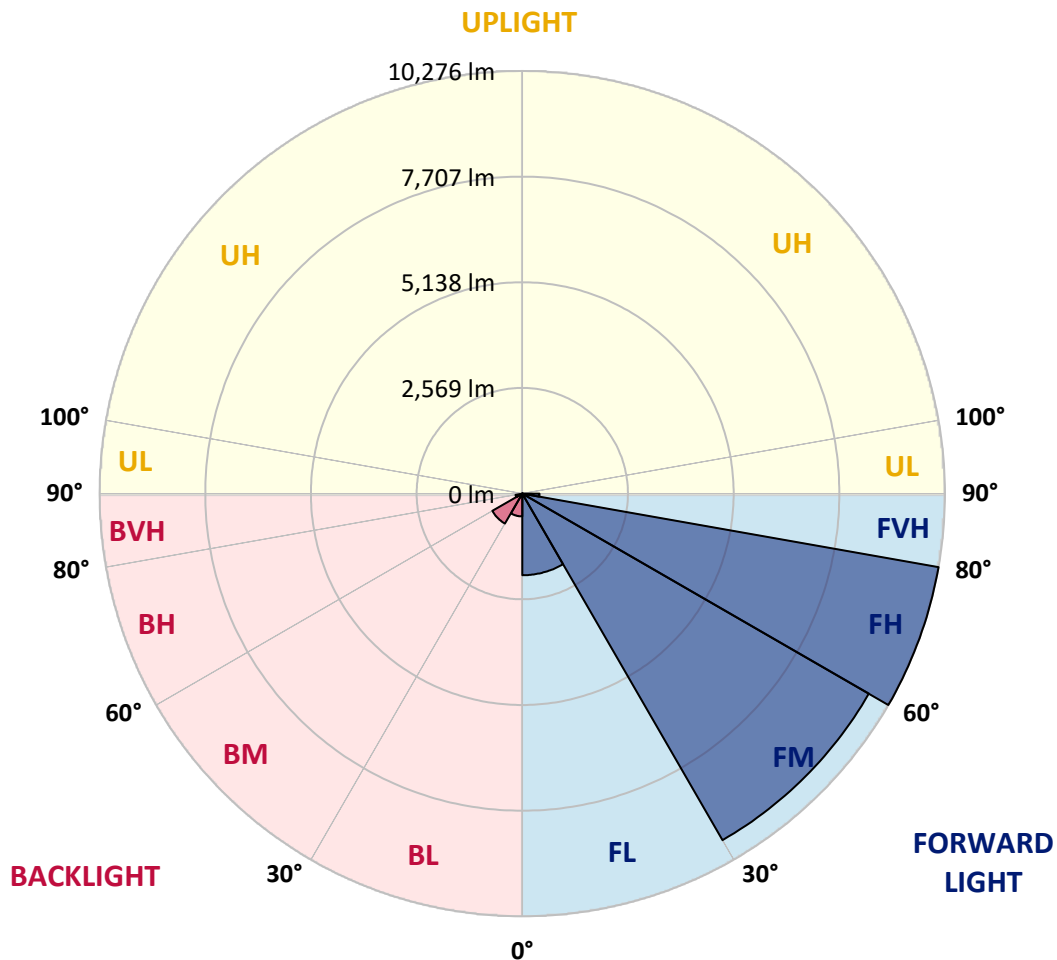
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.1	8.3			
FM (30°-60°)	9727.7	40.6			
FH (60°-80°)	10275.8	42.9			G4/12000
FVH (80°-90°)	416.6	1.7			G3/500
BL (0°-30°)	553.3	2.3	B2/1000		
BM (30°-60°)	841.0	3.5	B1/1000		
BH (60°-80°)	165.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.1	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°	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5
2.5°	4320.9	4306.4	4287.1	4264.5	4200.1	4188.8	4150.2	4068.1	3969.8	3889.3	3778.2
5°	4525.4	4533.5	4519.0	4478.7	4432.0	4404.6	4356.3	4229.1	4101.9	3939.2	3757.2
7.5°	4572.1	4588.2	4570.5	4531.9	4486.8	4457.8	4419.1	4309.6	4161.5	3976.3	3726.6
10°	4567.3	4586.6	4575.4	4539.9	4502.9	4475.5	4433.6	4346.7	4227.5	4032.6	3736.3
12.5°	4559.2	4585.0	4583.4	4565.7	4535.1	4514.2	4488.4	4411.1	4300.0	4114.8	3789.4
15°	4536.7	4568.9	4597.9	4612.4	4614.0	4614.0	4581.8	4499.7	4393.4	4222.7	3858.7
17.5°	4546.4	4583.4	4655.9	4697.7	4726.7	4723.5	4689.7	4601.1	4483.6	4333.8	3931.2
20°	4606.0	4655.9	4757.3	4841.1	4870.1	4860.4	4815.3	4712.2	4578.6	4428.8	4002.0
22.5°	4752.5	4797.6	4924.8	5023.1	5044.0	5018.2	4953.8	4813.7	4692.9	4531.9	4087.4
25°	4971.5	5024.7	5142.2	5216.3	5216.3	5201.8	5111.6	4947.4	4821.8	4675.2	4198.5
27.5°	5237.3	5282.4	5398.3	5464.3	5425.7	5383.8	5293.6	5095.5	4974.8	4855.6	4332.2
30°	5506.2	5535.2	5657.6	5686.6	5646.3	5593.2	5496.5	5298.5	5192.2	5100.4	4525.4
32.5°	5760.7	5823.5	5924.9	5918.5	5863.7	5838.0	5749.4	5538.4	5478.8	5469.2	4796.0
35°	6015.1	6063.4	6153.6	6176.2	6127.8	6123.0	6058.6	5902.4	5904.0	5966.8	5217.9
37.5°	6234.1	6277.6	6383.9	6433.8	6443.5	6467.7	6441.9	6338.8	6485.4	6657.7	5776.8
40°	6417.7	6478.9	6614.2	6701.2	6801.0	6889.6	6894.4	6917.0	7211.7	7508.0	6506.3
42.5°	6561.1	6646.4	6842.9	7003.9	7232.6	7345.4	7435.6	7559.6	8055.6	8498.5	7366.3
45°	6747.9	6846.1	7090.9	7343.8	7701.3	7886.5	8012.1	8343.9	9047.6	9651.6	8248.8
47.5°	7057.1	7108.6	7358.3	7727.0	8197.3	8461.4	8706.2	9208.7	10112.2	10653.3	8983.2
50°	7454.9	7488.7	7677.1	8189.3	8798.0	9145.9	9592.0	10183.0	11216.9	11484.3	9398.7
52.5°	7894.5	7905.8	8047.5	8698.2	9471.2	9909.2	10408.5	11138.0	12117.2	12076.9	9674.1
55°	8405.1	8389.0	8509.7	9250.6	10268.4	10769.2	11350.6	12115.6	12898.3	12497.3	9831.9
57.5°	8989.7	8946.2	9063.7	9983.3	11289.4	11888.5	12479.6	12959.5	13503.8	12850.0	9907.6
60°	9601.6	9514.7	9654.8	10806.3	12492.4	13060.9	13552.1	13681.0	14141.6	13130.2	9777.2
62.5°	10089.6	10091.2	10352.1	11682.4	13729.3	14226.9	14487.8	14603.8	14690.7	13069.0	9091.1
65°	10851.4	10877.1	11294.2	12898.3	15161.0	15592.6	15771.4	15394.5	14714.9	12308.8	8060.4
67.5°	11637.3	11719.4	12482.8	14573.2	16814.9	17162.8	16932.5	15547.5	14057.8	10574.4	6111.7
70°	11893.3	12028.6	13286.4	15726.3	17807.0	17987.4	17207.9	14834.1	11751.6	7070.0	3076.0
72.5°	10898.1	11117.1	12824.2	15305.9	17174.1	17017.9	15396.1	12440.9	7471.0	2684.7	938.9
75°	7685.2	7781.8	10658.1	12697.0	13813.0	13370.1	11711.4	8020.2	3072.8	753.7	322.1
77.5°	3968.2	3921.5	6338.8	8424.4	9851.3	9392.3	7669.1	4151.8	1164.4	314.0	199.7
80°	2051.7	2085.6	2742.6	4414.3	6013.5	5533.6	4089.0	1924.5	620.0	173.9	153.0
82.5°	1149.9	1079.0	1576.7	1927.7	2811.9	2204.7	1568.6	1362.5	270.6	104.7	144.9
85°	209.4	219.0	864.8	1042.0	975.9	620.0	505.7	909.9	78.9	58.0	101.5
87.5°	3.2	3.2	167.5	299.5	190.0	87.0	159.4	130.4	16.1	22.5	17.7
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°	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5	3739.5
2.5°	3721.8	3660.6	3546.3	3433.5	3290.2	3172.6	3093.7	3011.6	2927.8	2934.3	2953.6
5°	3657.4	3551.1	3325.6	3087.3	2858.6	2652.4	2449.5	2267.5	2193.5	2125.8	2129.0
7.5°	3593.0	3443.2	3113.0	2739.4	2393.2	2042.1	1787.6	1578.3	1467.1	1383.4	1359.2
10°	3564.0	3365.9	2918.2	2404.4	1913.2	1529.9	1203.0	1032.3	900.3	858.4	869.7
12.5°	3576.9	3327.2	2742.6	2101.7	1517.1	1066.1	837.4	750.5	721.5	716.7	713.4
15°	3601.0	3299.9	2570.3	1766.7	1114.4	792.4	703.8	687.7	684.5	681.2	682.8
17.5°	3633.2	3275.7	2386.7	1452.6	855.2	692.5	666.7	658.7	657.1	657.1	657.1
20°	3665.4	3248.3	2182.2	1172.4	713.4	653.9	637.7	632.9	631.3	631.3	629.7
22.5°	3702.5	3224.2	1974.4	921.2	657.1	626.5	612.0	608.8	607.1	605.5	605.5
25°	3755.6	3193.6	1753.8	753.7	621.6	600.7	586.2	583.0	581.4	574.9	576.5
27.5°	3826.5	3171.0	1526.7	650.6	589.4	568.5	558.8	554.0	550.8	546.0	547.6
30°	3923.1	3151.7	1285.2	594.3	552.4	534.7	525.0	521.8	518.6	513.7	513.7
32.5°	4090.6	3159.7	1030.7	549.2	518.6	497.6	488.0	484.8	481.5	476.7	476.7
35°	4341.8	3206.5	824.6	510.5	478.3	457.4	447.7	447.7	442.9	436.4	434.8
37.5°	4752.5	3325.6	661.9	473.5	439.7	420.3	409.1	405.8	401.0	391.3	389.7
40°	5237.3	3510.8	557.2	436.4	404.2	384.9	375.2	365.6	352.7	343.0	341.4
42.5°	5846.0	3700.9	483.1	399.4	370.4	352.7	341.4	325.3	306.0	293.1	291.5
45°	6480.5	3874.8	433.2	365.6	338.2	323.7	310.8	285.1	260.9	244.8	243.2
47.5°	6954.0	3907.0	393.0	333.4	310.8	296.3	278.6	246.4	214.2	199.7	194.9
50°	7177.9	3750.8	351.1	301.2	283.4	267.3	244.8	207.8	172.3	154.6	151.4
52.5°	7256.8	3480.2	317.3	272.2	256.1	236.7	209.4	167.5	135.3	117.6	116.0
55°	7224.6	3138.8	286.7	244.8	223.9	201.3	173.9	133.7	99.8	85.4	82.1
57.5°	7055.5	2704.0	256.1	217.4	191.6	169.1	138.5	99.8	67.6	54.8	53.1
60°	6599.7	2111.3	225.5	186.8	162.7	138.5	109.5	70.9	41.9	30.6	30.6
62.5°	5829.9	1567.0	196.5	156.2	136.9	111.1	77.3	45.1	22.5	16.1	14.5
65°	4871.7	1156.3	164.3	132.1	114.3	87.0	54.8	27.4	11.3	4.8	3.2
67.5°	3399.7	713.4	136.9	107.9	93.4	62.8	33.8	11.3	4.8	0.0	0.0
70°	1544.4	339.8	104.7	82.1	70.9	45.1	17.7	6.4	3.2	0.0	0.0
72.5°	479.9	178.8	74.1	59.6	48.3	29.0	9.7	4.8	3.2	0.0	0.0
75°	222.2	114.3	46.7	32.2	27.4	14.5	6.4	3.2	1.6	0.0	0.0
77.5°	165.9	88.6	27.4	17.7	14.5	9.7	4.8	3.2	1.6	0.0	0.0
80°	144.9	45.1	16.1	11.3	8.1	6.4	3.2	1.6	0.0	0.0	0.0
82.5°	130.4	22.5	9.7	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0
85°	70.9	12.9	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.9	6.4	4.8	3.2	3.2	1.6	1.6	1.6	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)