

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: P455942

Luminaire Tested: **GALN-SA7A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455942
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-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 20820 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 215
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

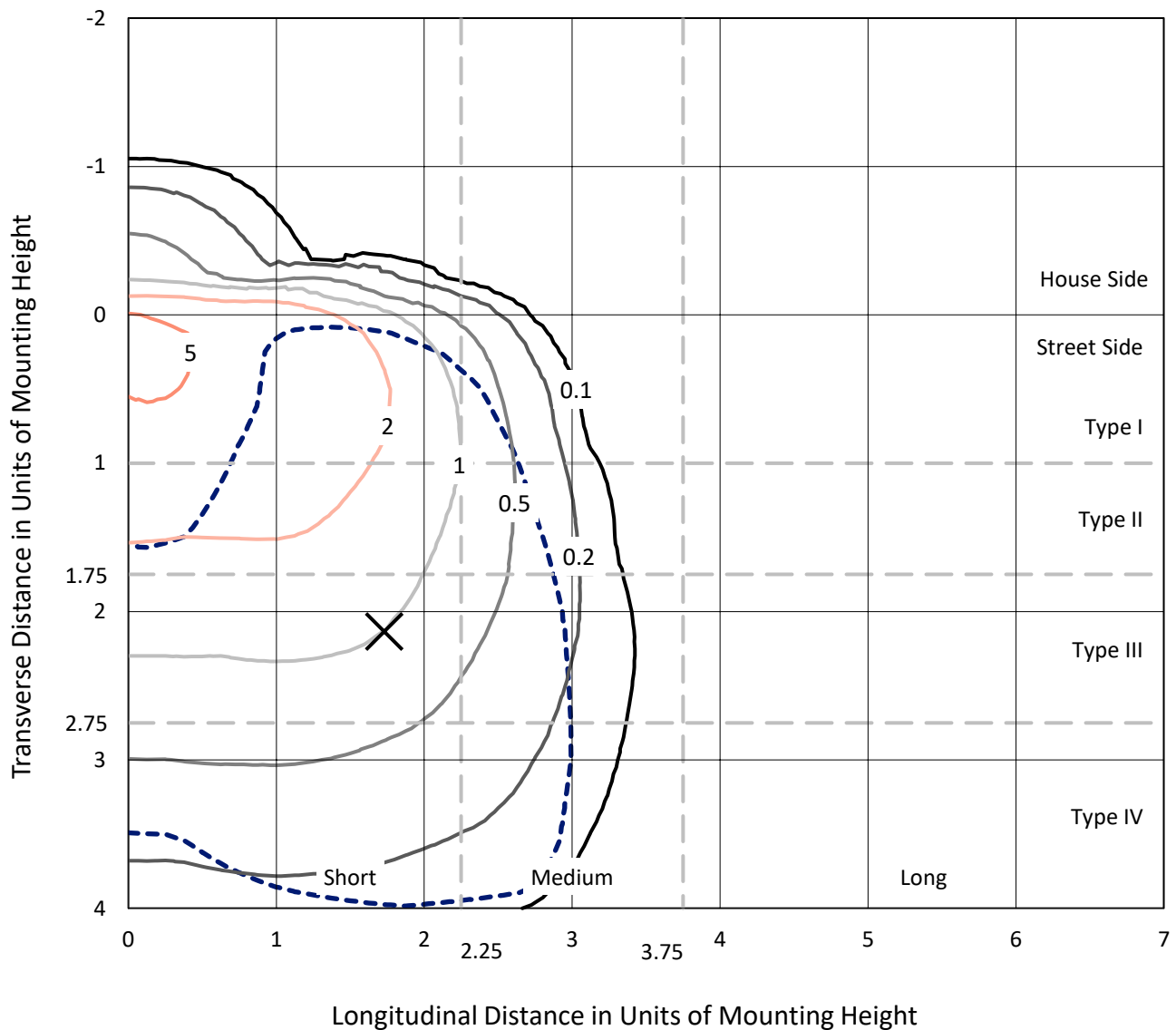


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Iso-Footcandle Lines of Horizontal Illumination

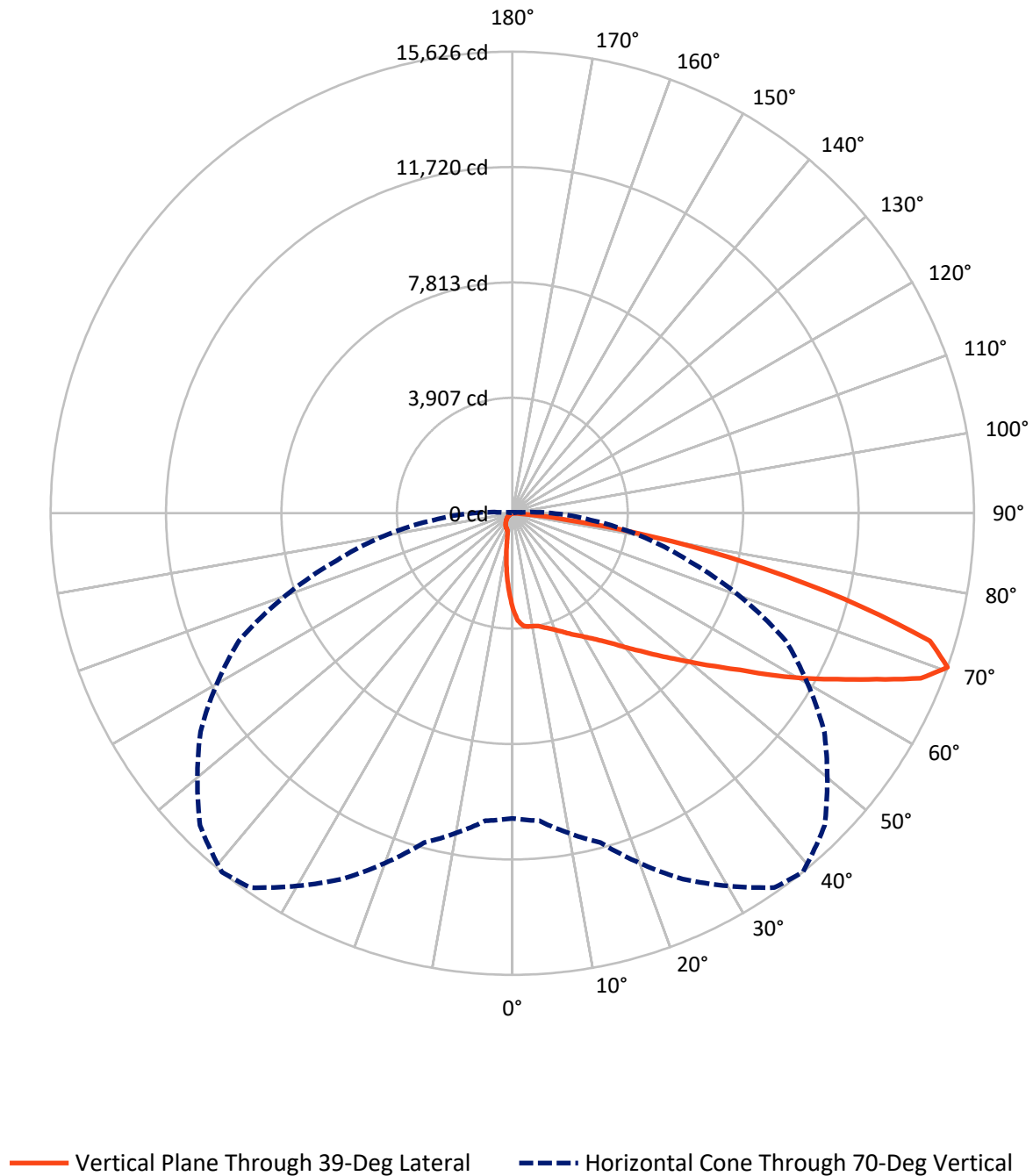
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1357.6	0.0	1357.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	19462.4	0.0	19462.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	20820.0	0.0	20820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	1.3
10°-20°	720.1	3.5
20°-30°	1206.3	5.8
30°-40°	1870.8	9.0
40°-50°	2964.7	14.2
50°-60°	4345.8	20.9
60°-70°	5570.3	26.8
70°-80°	3500.2	16.8
80°-90°	364.6	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°	20820.0	100.0
0°-180°	20820.0	100.0

Coefficient of Utilization



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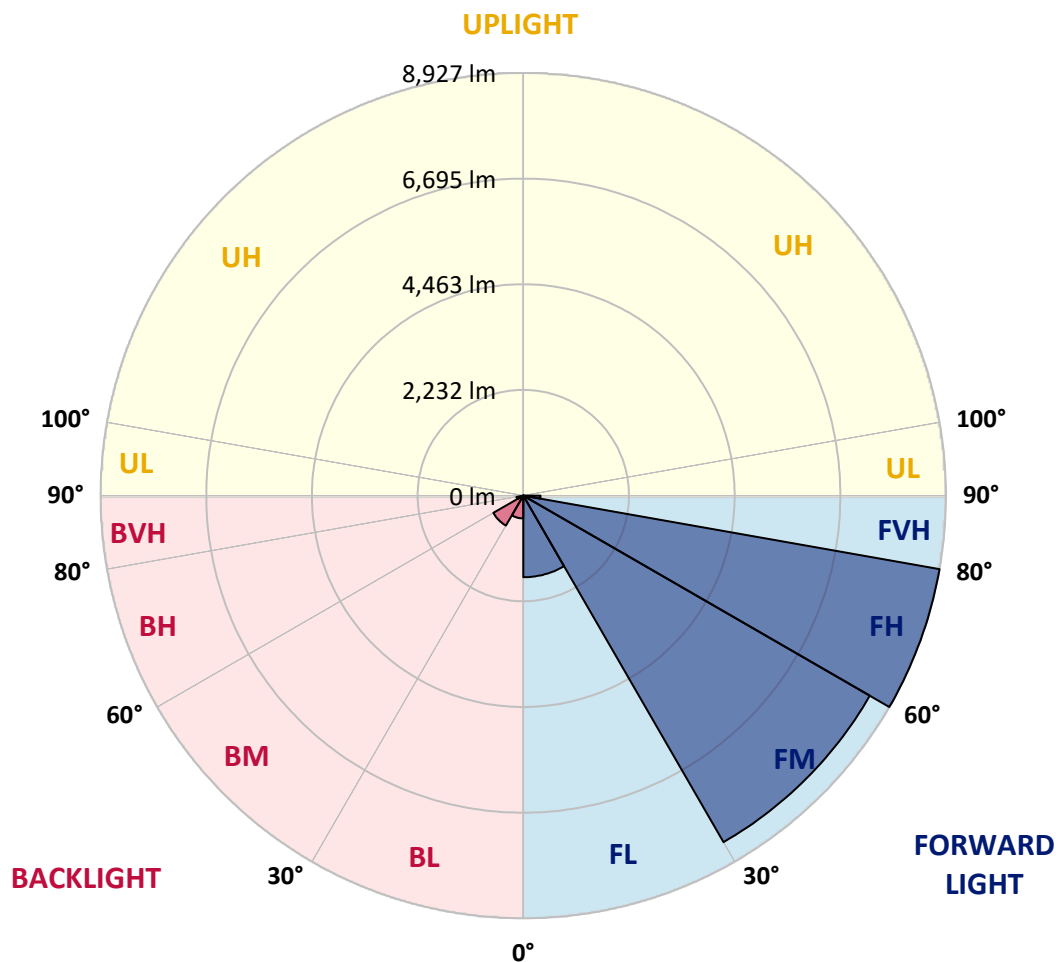
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1722.7	8.3			
FM	(30°-60°)	8450.8	40.6			
FH	(60°-80°)	8926.9	42.9			G4/12000
FVH	(80°-90°)	362.0	1.7			G3/500
BL	(0°-30°)	480.7	2.3	B1/500		
BM	(30°-60°)	730.6	3.5	B1/1000		
BH	(60°-80°)	143.6	0.7	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6
2.5°	3753.7	3741.1	3724.3	3704.7	3648.8	3639.0	3605.4	3534.0	3448.7	3378.7	3282.2
5°	3931.4	3938.4	3925.8	3890.8	3850.2	3826.4	3784.5	3674.0	3563.4	3422.1	3264.0
7.5°	3972.0	3985.9	3970.6	3937.0	3897.8	3872.6	3839.0	3743.9	3615.2	3454.3	3237.4
10°	3967.8	3984.5	3974.8	3944.0	3911.8	3888.0	3851.6	3776.1	3672.6	3503.3	3245.8
12.5°	3960.8	3983.1	3981.7	3966.4	3939.8	3921.6	3899.2	3832.0	3735.5	3574.6	3292.0
15°	3941.2	3969.2	3994.3	4006.9	4008.3	4008.3	3980.3	3909.0	3816.7	3668.4	3352.2
17.5°	3949.6	3981.7	4044.7	4081.1	4106.3	4103.5	4074.1	3997.1	3895.0	3764.9	3415.1
20°	4001.3	4044.7	4132.8	4205.6	4230.8	4222.4	4183.2	4093.7	3977.5	3847.4	3476.7
22.5°	4128.6	4167.8	4278.3	4363.7	4381.9	4359.5	4303.5	4181.8	4076.9	3937.0	3550.8
25°	4318.9	4365.1	4467.2	4531.6	4531.6	4519.0	4440.6	4297.9	4188.8	4061.5	3647.4
27.5°	4549.8	4588.9	4689.7	4747.0	4713.5	4677.1	4598.7	4426.6	4321.7	4218.2	3763.5
30°	4783.4	4808.6	4914.9	4940.1	4905.1	4859.0	4775.0	4602.9	4510.6	4430.8	3931.4
32.5°	5004.5	5059.0	5147.2	5141.6	5094.0	5071.6	4994.7	4811.4	4759.6	4751.2	4166.4
35°	5225.5	5267.5	5345.8	5365.4	5323.5	5319.3	5263.3	5127.6	5129.0	5183.5	4533.0
37.5°	5415.8	5453.6	5545.9	5589.3	5597.7	5618.7	5596.3	5506.7	5634.0	5783.7	5018.5
40°	5575.3	5628.4	5746.0	5821.5	5908.3	5985.2	5989.4	6009.0	6265.0	6522.5	5652.2
42.5°	5699.8	5774.0	5944.6	6084.5	6283.2	6381.1	6459.5	6567.2	6998.1	7382.9	6399.3
45°	5862.1	5947.4	6160.1	6379.7	6690.3	6851.2	6960.4	7248.6	7860.0	8384.6	7166.0
47.5°	6130.7	6175.5	6392.3	6712.7	7121.3	7350.7	7563.4	7999.9	8784.7	9254.8	7804.0
50°	6476.3	6505.7	6669.4	7114.3	7643.1	7945.3	8332.8	8846.3	9744.5	9976.7	8165.0
52.5°	6858.2	6868.0	6991.1	7556.4	8227.9	8608.5	9042.2	9675.9	10526.6	10491.6	8404.2
55°	7301.7	7287.7	7392.7	8036.2	8920.5	9355.6	9860.6	10525.2	11205.1	10856.8	8541.3
57.5°	7809.6	7771.8	7874.0	8672.8	9807.5	10327.9	10841.4	11258.3	11731.2	11163.2	8607.1
60°	8341.2	8265.7	8387.4	9387.7	10852.6	11346.4	11773.2	11885.1	12285.2	11406.6	8493.7
62.5°	8765.2	8766.6	8993.2	10148.8	11927.0	12359.4	12586.0	12686.7	12762.3	11353.4	7897.7
65°	9426.9	9449.3	9811.7	11205.1	13170.8	13545.8	13701.1	13373.7	12783.3	10693.1	7002.3
67.5°	10109.7	10181.0	10844.2	12660.2	14607.7	14909.9	14709.8	13506.6	12212.5	9186.3	5309.5
70°	10332.1	10449.6	11542.3	13661.9	15469.5	15626.2	14949.0	12886.8	10209.0	6141.9	2672.2
72.5°	9467.5	9657.8	11140.8	13296.7	14919.7	14783.9	13375.1	10807.8	6490.3	2332.2	815.7
75°	6676.3	6760.3	9259.0	11030.2	11999.8	11615.1	10174.0	6967.4	2669.4	654.8	279.8
77.5°	3447.3	3406.7	5506.7	7318.5	8558.1	8159.4	6662.4	3606.8	1011.5	272.8	173.5
80°	1782.4	1811.8	2382.6	3834.8	5224.1	4807.2	3552.2	1671.9	538.6	151.1	132.9
82.5°	998.9	937.4	1369.7	1674.7	2442.8	1915.3	1362.7	1183.6	235.0	90.9	125.9
85°	181.9	190.3	751.3	905.2	847.8	538.6	439.3	790.5	68.6	50.4	88.1
87.5°	2.8	2.8	145.5	260.2	165.1	75.5	138.5	113.3	14.0	19.6	15.4
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°	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6	3248.6
2.5°	3233.2	3180.1	3080.7	2982.8	2858.3	2756.2	2687.6	2616.3	2543.5	2549.1	2565.9
5°	3177.3	3084.9	2889.1	2682.0	2483.3	2304.3	2128.0	1969.9	1905.5	1846.8	1849.6
7.5°	3121.3	2991.2	2704.4	2379.8	2079.0	1774.0	1553.0	1371.1	1274.6	1201.8	1180.8
10°	3096.1	2924.1	2535.1	2088.8	1662.1	1329.1	1045.1	896.8	782.1	745.7	755.5
12.5°	3107.3	2890.5	2382.6	1825.8	1317.9	926.2	727.5	652.0	626.8	622.6	619.8
15°	3128.3	2866.7	2232.9	1534.8	968.2	688.3	611.4	597.4	594.6	591.8	593.2
17.5°	3156.3	2845.7	2073.4	1262.0	742.9	601.6	579.2	572.2	570.8	570.8	570.8
20°	3184.3	2821.9	1895.7	1018.5	619.8	568.0	554.0	549.8	548.4	548.4	547.0
22.5°	3216.5	2800.9	1715.3	800.3	570.8	544.2	531.6	528.8	527.4	526.0	526.0
25°	3262.6	2774.4	1523.6	654.8	540.0	521.9	509.3	506.5	505.1	499.5	500.9
27.5°	3324.2	2754.8	1326.3	565.2	512.1	493.9	485.5	481.3	478.5	474.3	475.7
30°	3408.1	2738.0	1116.5	516.3	479.9	464.5	456.1	453.3	450.5	446.3	446.3
32.5°	3553.6	2745.0	895.4	477.1	450.5	432.3	423.9	421.1	418.3	414.1	414.1
35°	3771.9	2785.5	716.3	443.5	415.5	397.3	388.9	388.9	384.7	379.1	377.7
37.5°	4128.6	2889.1	575.0	411.3	381.9	365.2	355.4	352.6	348.4	340.0	338.6
40°	4549.8	3050.0	484.1	379.1	351.2	334.4	326.0	317.6	306.4	298.0	296.6
42.5°	5078.6	3215.1	419.7	347.0	321.8	306.4	296.6	282.6	265.8	254.6	253.2
45°	5629.8	3366.2	376.3	317.6	293.8	281.2	270.0	247.6	226.6	212.7	211.3
47.5°	6041.2	3394.1	341.4	289.6	270.0	257.4	242.0	214.1	186.1	173.5	169.3
50°	6235.6	3258.4	305.0	261.6	246.2	232.2	212.7	180.5	149.7	134.3	131.5
52.5°	6304.2	3023.4	275.6	236.4	222.5	205.7	181.9	145.5	117.5	102.1	100.7
55°	6276.2	2726.8	249.0	212.7	194.5	174.9	151.1	116.1	86.7	74.2	71.4
57.5°	6129.3	2349.0	222.5	188.9	166.5	146.9	120.3	86.7	58.8	47.6	46.2
60°	5733.4	1834.2	195.9	162.3	141.3	120.3	95.1	61.6	36.4	26.6	26.6
62.5°	5064.6	1361.3	170.7	135.7	118.9	96.5	67.2	39.2	19.6	14.0	12.6
65°	4232.2	1004.5	142.7	114.7	99.3	75.5	47.6	23.8	9.8	4.2	2.8
67.5°	2953.4	619.8	118.9	93.7	81.1	54.6	29.4	9.8	4.2	0.0	0.0
70°	1341.7	295.2	90.9	71.4	61.6	39.2	15.4	5.6	2.8	0.0	0.0
72.5°	416.9	155.3	64.4	51.8	42.0	25.2	8.4	4.2	2.8	0.0	0.0
75°	193.1	99.3	40.6	28.0	23.8	12.6	5.6	2.8	1.4	0.0	0.0
77.5°	144.1	76.9	23.8	15.4	12.6	8.4	4.2	2.8	1.4	0.0	0.0
80°	125.9	39.2	14.0	9.8	7.0	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	113.3	19.6	8.4	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0
85°	61.6	11.2	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	4.2	2.8	2.8	1.4	1.4	1.4	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)