

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: P529973

Luminaire Tested: **GALN-SA5A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10623 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 154
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

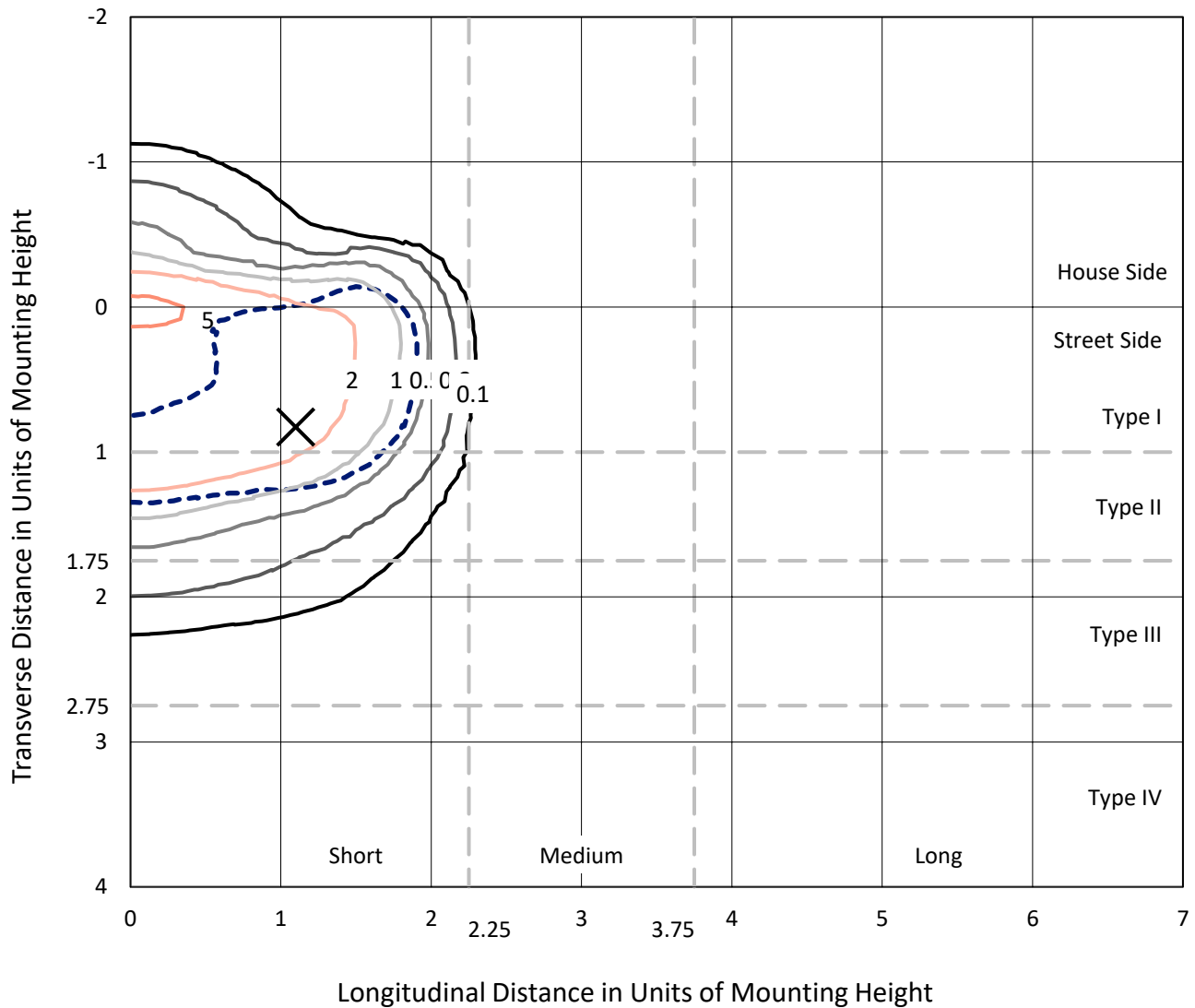


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

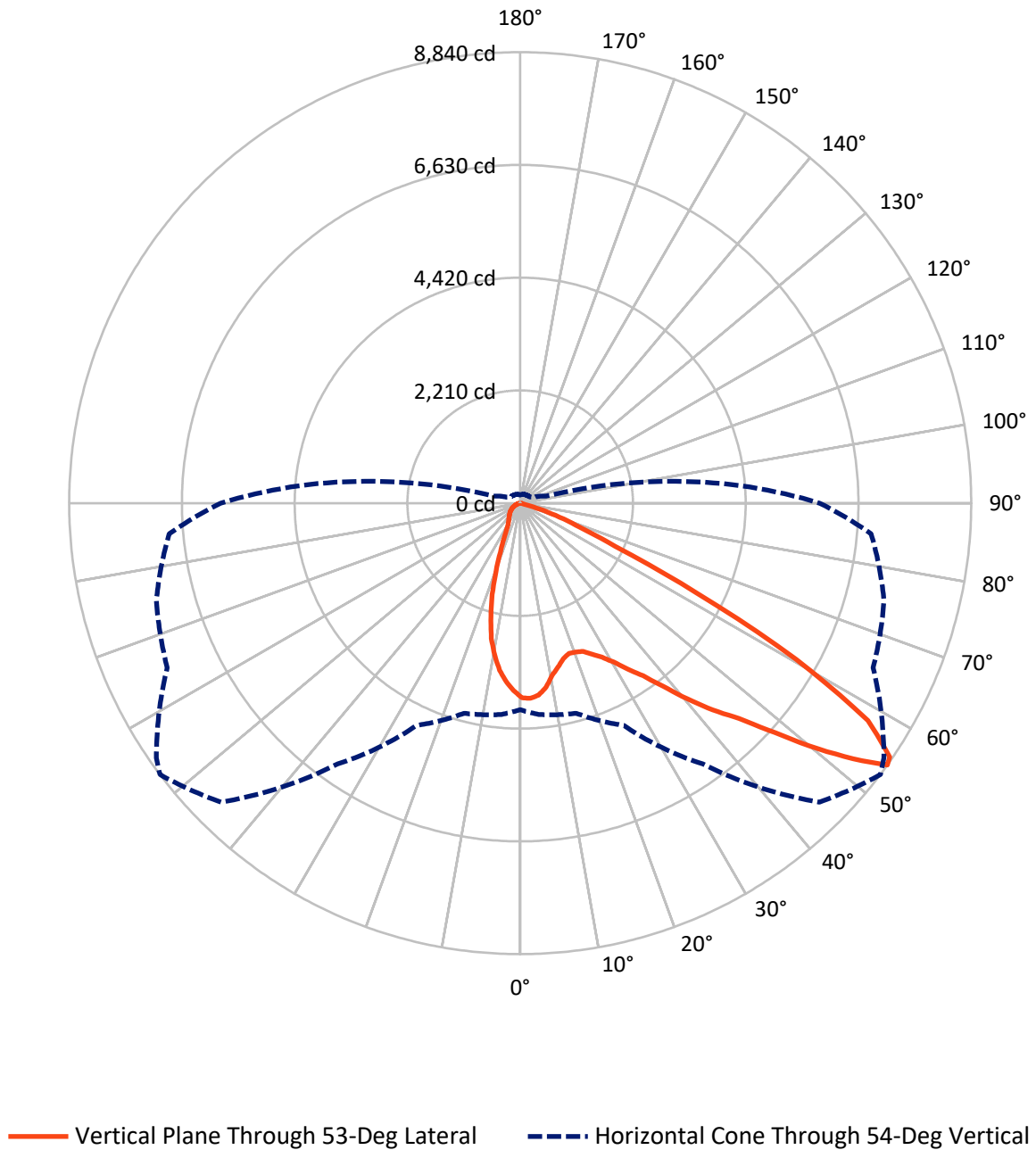


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1757.6	0.0	1757.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8865.4	0.0	8865.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	10623.0	0.0	10623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.4	3.1
10°-20°	750.6	7.1
20°-30°	1066.7	10.0
30°-40°	1646.2	15.5
40°-50°	2581.1	24.3
50°-60°	2998.3	28.2
60°-70°	1132.9	10.7
70°-80°	107.7	1.0
80°-90°	12.1	0.1
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°	10623.0	100.0
0°-180°	10623.0	100.0

Coefficient of Utilization



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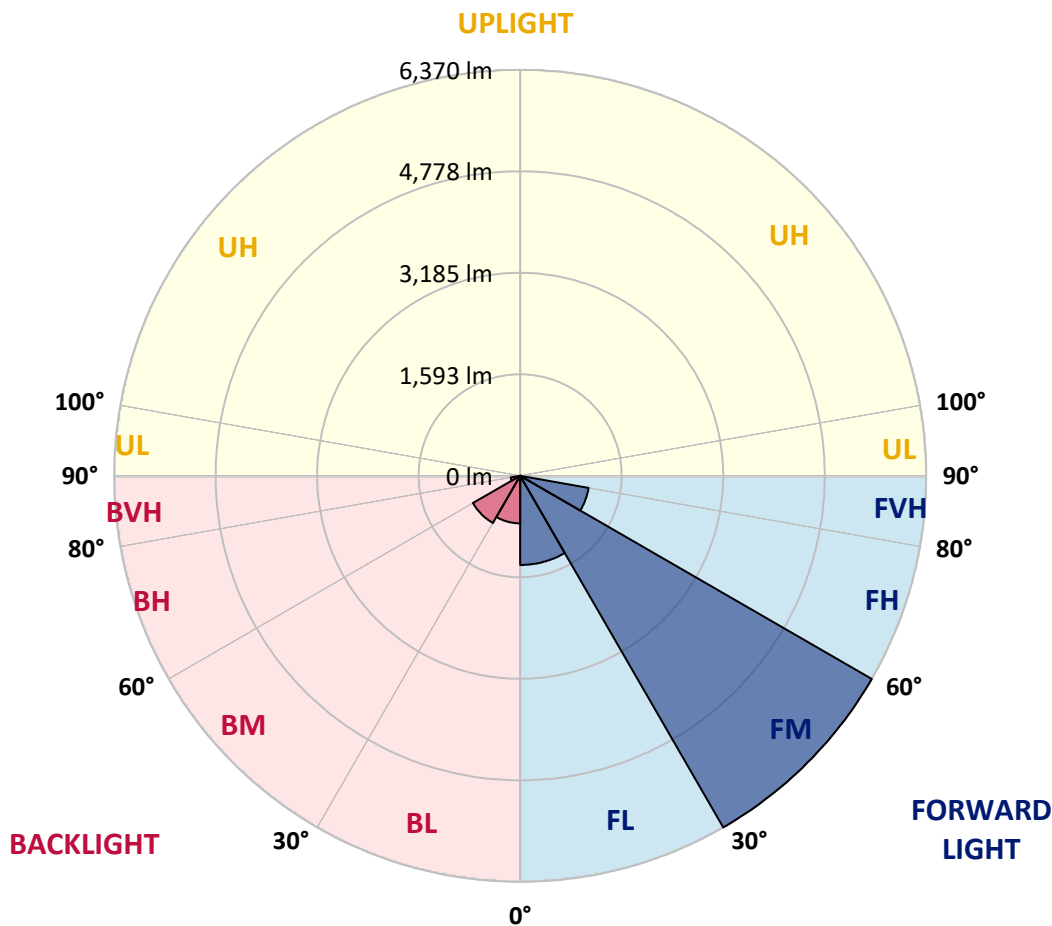
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.8	13.2			
FM	(30°-60°)	6370.3	60.0			
FH	(60°-80°)	1090.1	10.3			G1/1800
FVH	(80°-90°)	6.3	0.1			G0/10
BL	(0°-30°)	745.9	7.0	B2/1000		
BM	(30°-60°)	855.3	8.1	B1/1000		
BH	(60°-80°)	150.6	1.4	B1/500		G1/500
BVH	(80°-90°)	5.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
2.5°	3795.8	3762.2	3795.8	3799.8	3823.5	3845.3	3831.4	3863.1	3845.3	3825.5	3819.6
5°	3489.1	3534.6	3536.6	3607.8	3592.0	3722.6	3780.0	3764.1	3861.1	3855.2	3841.3
7.5°	3214.0	3196.2	3219.9	3303.0	3407.9	3558.3	3641.4	3639.5	3778.0	3877.0	3867.1
10°	2958.7	2956.7	3006.2	3071.5	3160.5	3318.9	3433.6	3491.0	3706.8	3857.2	3878.9
12.5°	2786.5	2778.6	2832.0	2885.5	3026.0	3148.7	3295.1	3322.8	3570.2	3787.9	3823.5
15°	2673.7	2691.5	2695.5	2798.4	2887.4	3049.7	3164.5	3221.9	3506.9	3732.5	3869.0
17.5°	2653.9	2677.7	2679.6	2764.7	2859.7	2996.3	3097.2	3174.4	3453.4	3760.2	3871.0
20°	2693.5	2679.6	2691.5	2744.9	2838.0	2968.6	3115.0	3140.7	3435.6	3774.0	3892.8
22.5°	2806.3	2802.3	2772.6	2816.2	2881.5	3018.0	3156.6	3196.2	3487.1	3845.3	3910.6
25°	2931.0	2952.7	2925.0	2919.1	2964.6	3099.2	3283.2	3334.7	3659.3	3973.9	3966.0
27.5°	3164.5	3142.7	3142.7	3115.0	3103.1	3168.5	3419.8	3504.9	3851.2	4140.2	4029.3
30°	3388.1	3411.9	3394.1	3404.0	3324.8	3318.9	3613.7	3718.6	4191.6	4393.5	4163.9
32.5°	3742.4	3710.7	3740.4	3714.7	3609.8	3502.9	3877.0	3985.8	4603.3	4684.4	4365.8
35°	4037.3	4023.4	4150.1	4146.1	3975.9	3871.0	4156.0	4318.3	4890.2	5032.7	4603.3
37.5°	4456.8	4431.1	4575.6	4644.8	4492.4	4336.1	4555.8	4743.8	5157.4	5311.8	4846.7
40°	4888.2	4953.6	5147.5	5262.3	5100.0	4892.2	5044.6	5102.0	5335.5	5493.8	5012.9
42.5°	5434.5	5529.5	5727.4	5826.3	5812.5	5586.8	5541.3	5539.4	5464.1	5442.4	5135.6
45°	5958.9	5923.3	6228.1	6443.8	6617.9	6552.6	6020.3	5960.9	5668.0	5519.6	5167.3
47.5°	6188.5	6176.6	6384.4	6768.3	7362.1	7443.2	6716.9	6487.3	6012.3	5844.1	5339.5
50°	5891.6	5953.0	6158.8	6584.3	7494.7	8114.1	7571.8	7263.1	6414.1	6239.9	5747.2
52.5°	4921.9	4963.4	5159.4	5699.7	7043.4	8509.9	8391.2	8213.0	7152.3	6863.3	6457.6
54°	4047.2	4158.0	4264.8	4807.1	6239.9	8290.2	8840.4	8703.8	7633.2	7381.8	6904.9
55°	3524.7	3590.0	3667.2	4207.5	5683.8	7918.2	8788.9	8800.8	7955.8	7544.1	7205.7
57.5°	2574.7	2620.3	2541.1	2780.6	3902.7	6429.9	8038.9	8359.5	8391.2	7787.5	7389.8
60°	1967.2	1987.0	1897.9	1935.5	2426.3	4413.3	6218.2	6604.1	7569.9	6805.9	6259.7
62.5°	1525.8	1529.8	1527.8	1593.1	1672.3	2596.5	3888.8	4231.2	5218.7	4832.8	4251.0
65°	1124.1	1106.3	1138.0	1335.9	1426.9	1632.7	2048.3	2297.7	2836.0	2394.6	1711.9
67.5°	728.3	734.2	765.9	993.5	1223.1	1252.7	1260.7	1240.9	1242.8	684.8	429.5
70°	437.4	447.3	437.4	562.0	874.7	898.5	821.3	801.5	625.4	162.3	160.3
72.5°	259.3	245.4	219.7	241.4	364.1	435.4	391.9	389.9	245.4	95.0	95.0
75°	108.8	99.0	81.1	73.2	97.0	93.0	93.0	83.1	65.3	63.3	59.4
77.5°	21.8	21.8	15.8	17.8	23.7	27.7	33.6	33.6	39.6	39.6	37.6
80°	0.0	2.0	5.9	11.9	17.8	25.7	29.7	29.7	33.6	33.6	27.7
82.5°	0.0	2.0	5.9	11.9	15.8	23.7	29.7	29.7	33.6	35.6	29.7
85°	0.0	2.0	5.9	9.9	15.8	19.8	19.8	17.8	13.9	11.9	7.9
87.5°	0.0	0.0	2.0	4.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
2.5°	3833.4	3831.4	3783.9	3706.8	3688.9	3623.6	3615.7	3576.1	3597.9	3524.7	3516.8
5°	3801.7	3778.0	3720.6	3671.1	3526.7	3423.8	3342.6	3243.7	3186.3	3196.2	3158.6
7.5°	3847.3	3785.9	3685.0	3512.8	3336.7	3156.6	3059.6	2857.7	2784.5	2675.7	2659.8
10°	3799.8	3754.3	3597.9	3312.9	3069.5	2810.2	2582.7	2359.0	2188.8	2115.6	2099.8
12.5°	3795.8	3716.7	3455.4	3138.8	2786.5	2414.4	2083.9	1804.9	1636.7	1541.7	1519.9
15°	3734.5	3639.5	3295.1	2869.6	2382.8	1919.7	1559.5	1290.3	1161.7	1106.3	1122.1
17.5°	3740.4	3597.9	3134.8	2584.6	1985.0	1409.1	1064.7	926.2	892.6	906.4	906.4
20°	3734.5	3504.9	2940.9	2256.1	1519.9	977.6	781.7	732.2	754.0	797.6	787.7
22.5°	3702.8	3461.4	2762.7	1909.8	1118.2	724.3	627.4	629.3	663.0	716.4	728.3
25°	3726.5	3364.4	2537.1	1559.5	815.4	577.9	544.2	558.1	593.7	633.3	641.2
27.5°	3708.7	3295.1	2301.6	1211.2	595.7	496.7	494.8	510.6	526.4	556.1	556.1
30°	3728.5	3231.8	2070.1	900.5	490.8	455.2	447.3	459.1	475.0	480.9	478.9
32.5°	3801.7	3184.3	1802.9	672.9	433.4	415.6	415.6	415.6	413.6	421.5	423.5
35°	3962.1	3192.2	1567.4	520.5	395.8	382.0	376.0	368.1	364.1	368.1	370.1
37.5°	4136.2	3188.2	1324.0	443.3	368.1	356.2	342.4	330.5	328.5	332.5	326.5
40°	4213.4	3225.8	1098.4	397.8	342.4	328.5	306.8	296.9	298.8	302.8	298.8
42.5°	4318.3	3237.7	951.9	362.2	318.6	296.9	283.0	271.1	269.2	275.1	273.1
45°	4316.3	3170.4	797.6	342.4	296.9	273.1	255.3	245.4	245.4	249.4	251.3
47.5°	4443.0	3160.5	684.8	324.6	281.0	257.3	235.5	227.6	225.6	225.6	221.7
50°	4737.8	3299.1	597.7	304.8	261.2	239.5	221.7	211.8	203.8	199.9	197.9
52.5°	5313.7	3730.5	530.4	281.0	239.5	221.7	205.8	197.9	188.0	178.1	176.1
54°	5871.8	4175.8	526.4	261.2	221.7	209.8	195.9	192.0	180.1	166.2	162.3
55°	6123.2	4435.0	540.3	245.4	209.8	201.9	190.0	186.0	174.2	158.3	156.3
57.5°	6331.0	4536.0	532.4	203.8	190.0	188.0	178.1	172.2	158.3	136.6	132.6
60°	5096.0	3429.7	382.0	180.1	174.2	170.2	162.3	158.3	140.5	116.8	114.8
62.5°	3219.9	1973.1	243.4	158.3	152.4	146.4	136.6	132.6	116.8	93.0	87.1
65°	1371.5	817.3	164.3	140.5	130.6	120.7	112.8	106.9	93.0	69.3	67.3
67.5°	356.2	290.9	136.6	122.7	108.8	95.0	89.1	79.2	63.3	47.5	45.5
70°	160.3	146.4	114.8	102.9	87.1	73.2	65.3	55.4	41.6	31.7	29.7
72.5°	95.0	93.0	87.1	77.2	65.3	55.4	47.5	37.6	27.7	17.8	17.8
75°	59.4	57.4	59.4	53.4	45.5	41.6	35.6	25.7	15.8	7.9	7.9
77.5°	35.6	35.6	35.6	33.6	31.7	31.7	25.7	15.8	7.9	2.0	2.0
80°	27.7	27.7	29.7	27.7	27.7	27.7	21.8	11.9	4.0	0.0	0.0
82.5°	27.7	29.7	33.6	31.7	27.7	23.7	19.8	11.9	4.0	0.0	0.0
85°	7.9	5.9	9.9	13.9	19.8	17.8	13.9	9.9	4.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	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)