

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: P527473

Luminaire Tested: **GALN-SA2C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9605 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

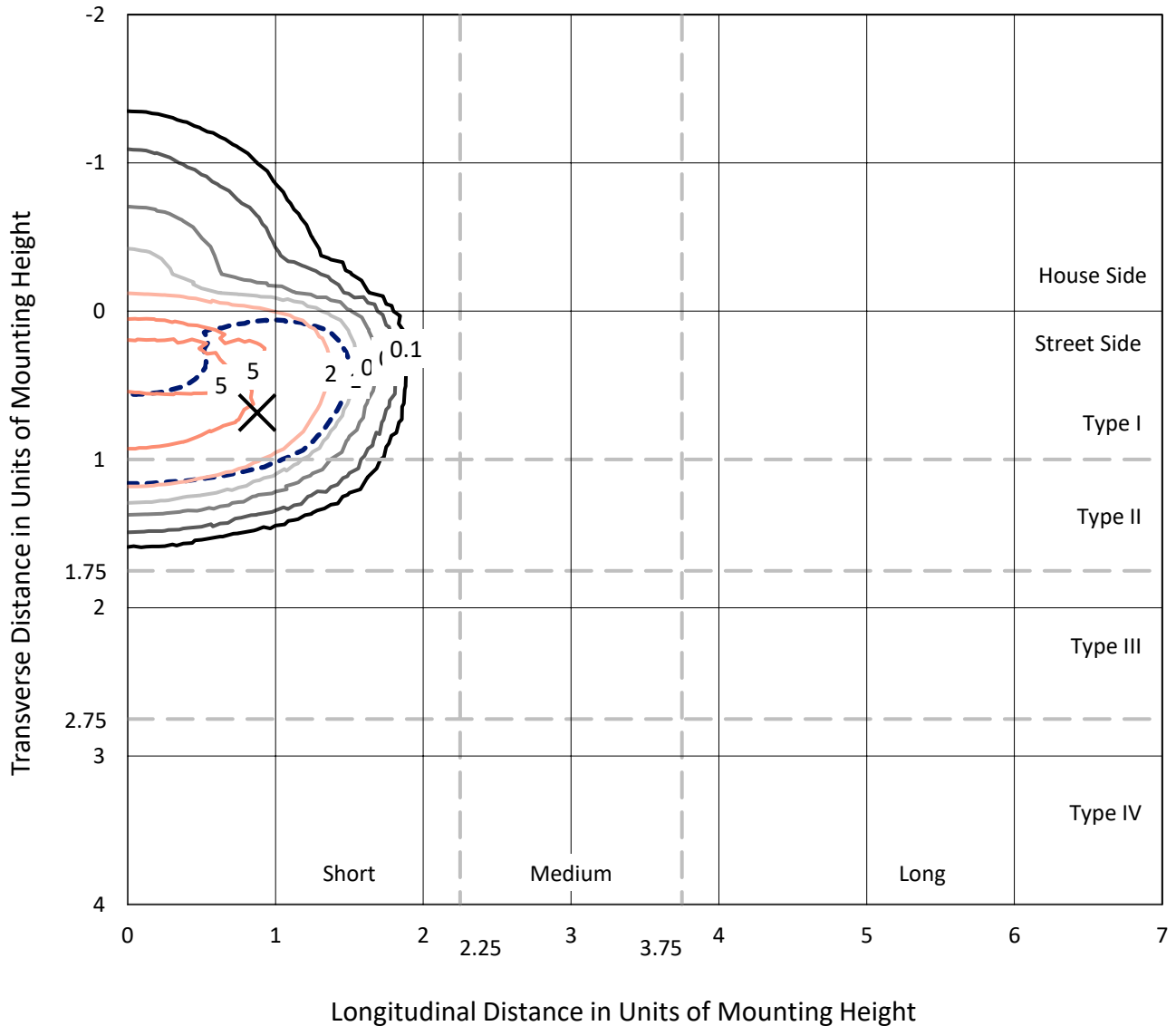
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

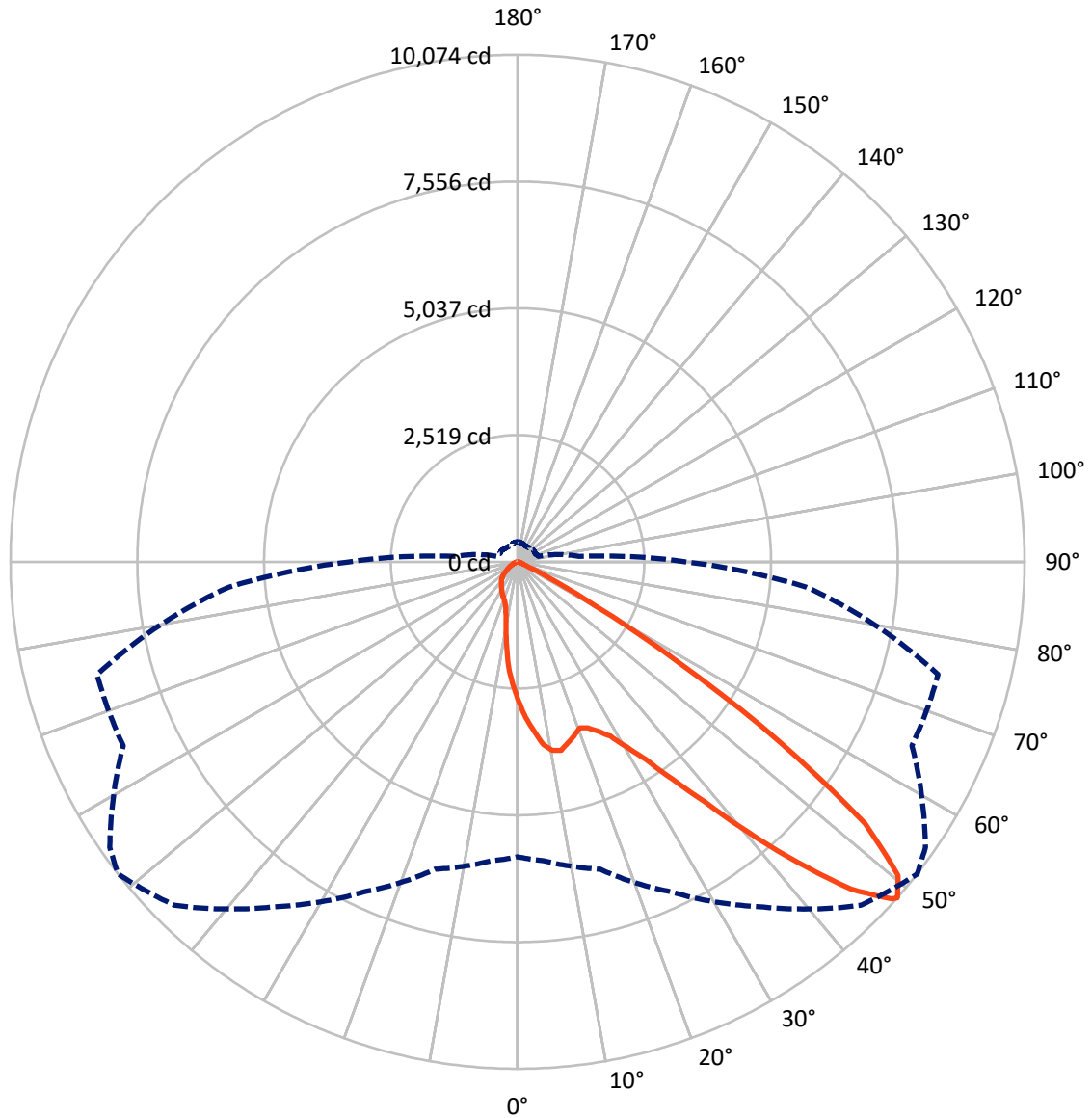
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.5	0.0	1169.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8435.5	0.0	8435.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	9605.0	0.0	9605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	2.6
10°-20°	663.5	6.9
20°-30°	1132.8	11.8
30°-40°	2086.1	21.7
40°-50°	3239.7	33.7
50°-60°	1949.7	20.3
60°-70°	225.5	2.3
70°-80°	43.6	0.5
80°-90°	10.1	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°	9605.0	100.0
0°-180°	9605.0	100.0

Coefficient of Utilization

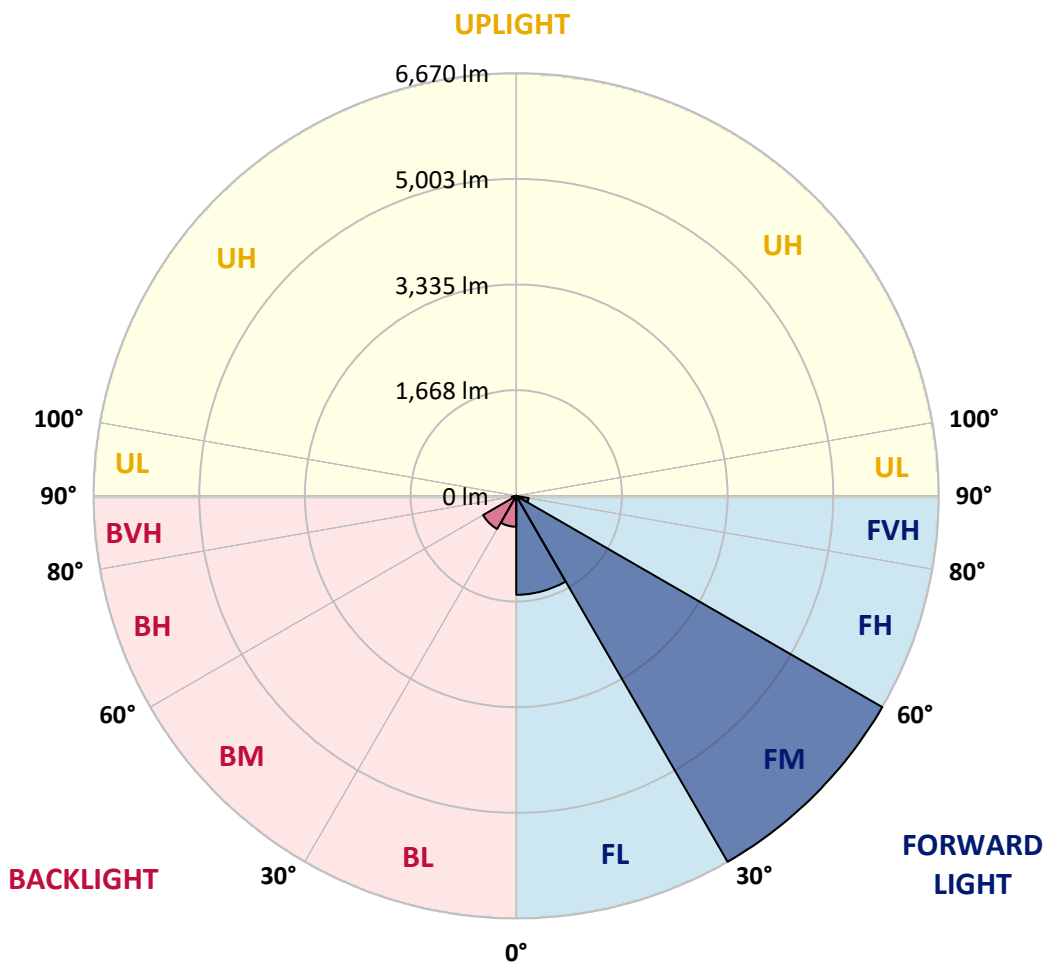


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.6	16.3			
FM (30°-60°)	6670.5	69.4			
FH (60°-80°)	198.6	2.1			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	488.5	5.1	B1/500		
BM (30°-60°)	605.1	6.3	B1/1000		
BH (60°-80°)	70.6	0.7	B0/110		G0/110
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8
2.5°	3361.8	3284.8	3291.8	3241.4	3212.0	3164.4	3100.0	3087.4	3017.4	2922.2	2825.6
5°	3664.3	3646.1	3669.9	3597.1	3599.9	3521.5	3370.2	3373.0	3212.0	3056.6	2906.8
7.5°	3683.9	3641.9	3665.7	3730.1	3767.9	3753.9	3668.5	3594.3	3441.7	3213.4	2995.0
10°	3298.8	3378.6	3403.8	3510.3	3661.5	3821.1	3811.3	3815.5	3688.1	3389.8	3070.6
12.5°	3067.8	3014.6	3100.0	3164.4	3392.6	3702.1	3843.5	3874.3	3884.1	3560.7	3146.2
15°	2962.8	2962.8	2976.8	2995.0	3160.2	3445.9	3734.3	3823.9	4035.3	3784.7	3265.2
17.5°	3028.6	3025.8	3045.4	3007.6	3069.2	3289.0	3633.5	3735.7	4204.8	4004.5	3359.0
20°	3228.8	3238.6	3226.0	3116.8	3121.0	3286.2	3521.5	3682.5	4319.6	4195.0	3483.7
22.5°	3507.5	3513.1	3441.7	3322.6	3287.6	3368.8	3585.9	3709.1	4412.0	4423.2	3521.5
25°	3829.5	3807.1	3793.1	3625.1	3518.7	3588.7	3731.5	3802.9	4469.4	4619.2	3629.3
27.5°	4276.2	4231.4	4145.9	3996.1	3917.7	3818.3	3920.5	4038.1	4633.2	4893.6	3746.9
30°	4935.6	4896.4	4729.8	4536.6	4330.8	4232.8	4265.0	4329.4	4928.6	5211.5	3902.3
32.5°	5928.4	5845.8	5604.9	5236.7	4956.7	4686.4	4678.0	4746.6	5193.3	5651.1	4087.1
35°	7021.9	6996.7	6642.5	6263.0	5721.2	5303.9	5310.9	5347.3	5700.1	6228.0	4329.4
37.5°	7748.6	7887.2	7661.8	7254.4	6799.3	6202.8	6051.6	6064.2	6396.0	6911.3	4766.2
40°	8310.1	8192.5	8219.1	8123.9	7813.0	7407.0	7072.3	7006.5	7201.1	7667.4	5200.3
42.5°	8065.1	8070.7	8234.5	8459.9	8536.9	8507.5	8165.9	8041.3	7890.0	8286.3	5613.3
45°	7373.4	7517.6	7730.4	8326.9	8850.6	9342.0	9274.8	9067.6	8366.1	8776.4	5851.4
47.5°	6270.0	6264.4	6613.1	7388.8	8552.3	9703.3	10008.5	9862.9	8703.5	8721.7	5802.4
48°	5862.6	5963.4	6323.2	7236.2	8363.3	9650.1	10074.3	9890.9	8646.1	8648.9	5760.4
50°	4333.6	4315.4	4763.4	5883.6	7470.0	9067.6	9797.1	9939.9	8644.7	8280.7	5466.3
52.5°	2289.3	2367.7	2694.0	3699.3	5281.5	7421.0	8641.9	8864.6	8339.5	7678.6	5043.5
55°	973.1	879.3	1129.9	1670.4	2971.2	4958.1	6340.0	6835.7	7051.3	6795.1	4412.0
57.5°	347.2	379.4	436.9	628.7	1249.0	2713.6	3780.5	4165.5	4885.2	4986.1	3006.2
60°	222.6	226.8	245.0	288.4	469.1	1045.9	1793.6	2100.3	2426.5	2504.9	1403.0
62.5°	172.2	173.6	182.0	189.0	222.6	406.1	673.5	798.1	828.9	712.7	368.2
65°	144.2	145.6	148.4	148.4	158.2	190.4	235.2	259.0	252.0	249.2	208.6
67.5°	110.6	113.4	119.0	119.0	124.6	116.2	130.2	138.6	156.8	190.4	177.8
70°	86.8	88.2	92.4	95.2	95.2	84.0	93.8	102.2	114.8	141.4	140.0
72.5°	67.2	70.0	72.8	72.8	68.6	57.4	67.2	74.2	82.6	98.0	95.2
75°	51.8	51.8	53.2	43.4	33.6	29.4	40.6	49.0	61.6	64.4	53.2
77.5°	14.0	15.4	14.0	12.6	14.0	21.0	26.6	30.8	39.2	39.2	35.0
80°	0.0	1.4	4.2	8.4	14.0	19.6	23.8	26.6	30.8	33.6	32.2
82.5°	0.0	1.4	4.2	8.4	12.6	15.4	21.0	22.4	25.2	29.4	29.4
85°	0.0	1.4	2.8	5.6	8.4	9.8	9.8	8.4	8.4	7.0	5.6
87.5°	0.0	0.0	1.4	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2
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°	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8
2.5°	2787.8	2744.4	2678.6	2574.9	2475.5	2411.1	2349.5	2280.9	2243.1	2240.3	2219.3
5°	2821.4	2723.4	2566.5	2388.7	2198.3	2034.5	1869.2	1761.4	1664.8	1611.6	1601.8
7.5°	2839.6	2712.2	2458.7	2160.5	1835.6	1568.2	1383.4	1247.6	1194.4	1155.2	1153.8
10°	2877.4	2692.6	2297.7	1858.0	1456.2	1186.0	1058.5	996.9	967.5	956.3	939.5
12.5°	2905.4	2656.1	2132.5	1547.2	1151.0	982.9	926.9	912.9	914.3	919.9	912.9
15°	2944.6	2623.9	1909.9	1270.0	966.1	884.9	884.9	887.7	907.3	910.1	908.7
17.5°	2941.8	2560.9	1680.2	1045.9	854.1	842.9	847.1	873.7	886.3	890.5	880.7
20°	2975.4	2502.1	1443.6	893.3	791.1	807.9	835.9	842.9	858.3	861.1	849.9
22.5°	2965.6	2355.1	1223.8	772.9	743.5	775.7	803.7	812.1	807.9	799.5	798.1
25°	2947.4	2229.1	1022.1	693.1	708.5	743.5	770.1	754.7	746.3	747.7	749.1
27.5°	2915.2	2069.5	855.5	637.1	660.9	712.7	711.3	705.7	714.1	707.1	714.1
30°	2909.6	1909.9	718.3	586.7	625.9	663.7	666.5	676.3	686.1	673.5	686.1
32.5°	2918.0	1734.8	620.3	555.9	604.9	606.3	637.1	646.9	639.9	611.9	614.7
35°	2982.4	1600.4	548.9	539.1	571.3	572.7	602.1	589.5	558.7	541.9	551.7
37.5°	3118.2	1488.4	515.3	523.7	526.5	544.7	546.1	520.9	523.7	522.3	527.9
40°	3291.8	1403.0	491.5	509.7	506.9	519.5	469.1	483.1	495.7	499.9	502.7
42.5°	3410.8	1341.4	476.1	487.3	481.7	459.3	431.3	445.3	455.1	470.5	473.3
45°	3464.1	1292.4	457.9	448.1	448.1	407.5	396.3	399.1	421.5	438.3	435.5
47.5°	3377.2	1244.8	425.7	396.3	406.1	372.4	359.8	359.8	383.7	404.7	400.5
48°	3343.6	1225.2	427.1	385.1	392.1	366.8	354.2	351.4	378.0	397.7	397.7
50°	3177.0	1152.4	390.7	354.2	340.2	337.4	329.0	331.8	348.6	366.8	366.8
52.5°	2852.2	995.5	330.4	303.8	278.6	295.4	299.6	294.0	302.4	319.2	317.8
55°	2380.3	764.5	264.6	252.0	232.4	250.6	259.0	252.0	243.6	256.2	256.2
57.5°	1524.8	411.7	211.4	214.2	194.6	212.8	219.8	203.0	187.6	197.4	196.0
60°	687.5	246.4	173.6	169.4	156.8	177.8	189.0	169.4	148.4	155.4	162.4
62.5°	257.6	175.0	131.6	128.8	126.0	145.6	151.2	135.8	114.8	119.0	120.4
65°	189.0	154.0	105.0	95.2	100.8	114.8	112.0	96.6	82.6	82.6	85.4
67.5°	161.0	134.4	85.4	74.2	74.2	75.6	70.0	61.6	57.4	60.2	63.0
70°	126.0	106.4	67.2	57.4	51.8	46.2	40.6	39.2	35.0	39.2	37.8
72.5°	81.2	71.4	51.8	43.4	39.2	32.2	26.6	25.2	21.0	19.6	19.6
75°	43.4	43.4	40.6	35.0	30.8	25.2	21.0	16.8	11.2	8.4	8.4
77.5°	30.8	33.6	36.4	33.6	28.0	21.0	16.8	11.2	5.6	2.8	2.8
80°	29.4	33.6	36.4	32.2	28.0	21.0	15.4	8.4	4.2	1.4	1.4
82.5°	26.6	30.8	33.6	29.4	25.2	18.2	14.0	8.4	4.2	1.4	1.4
85°	5.6	7.0	8.4	8.4	9.8	12.6	9.8	7.0	2.8	1.4	1.4
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	1.4
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)