

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: P458901

Luminaire Tested: **GALN-SA4B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20525 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

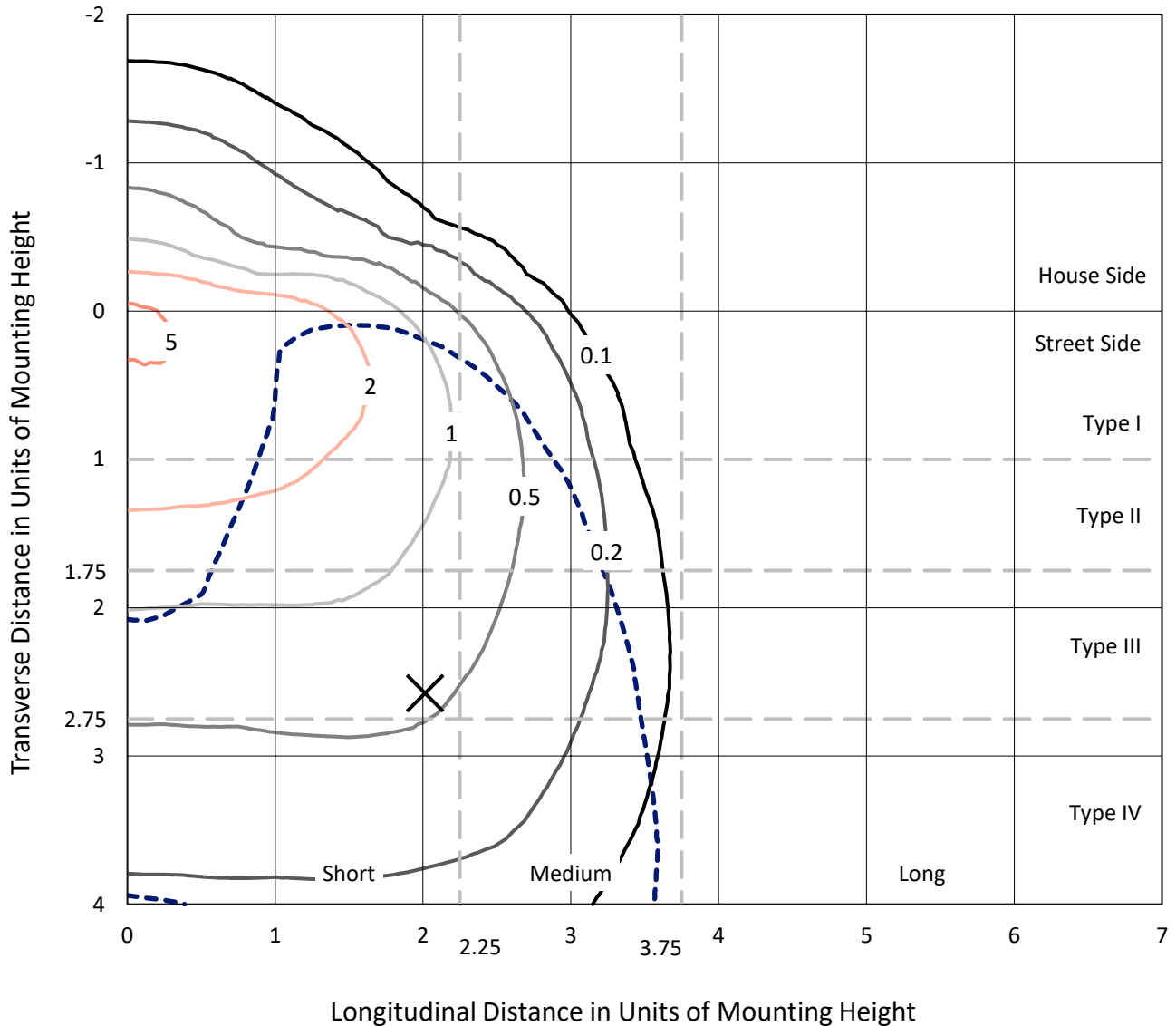
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

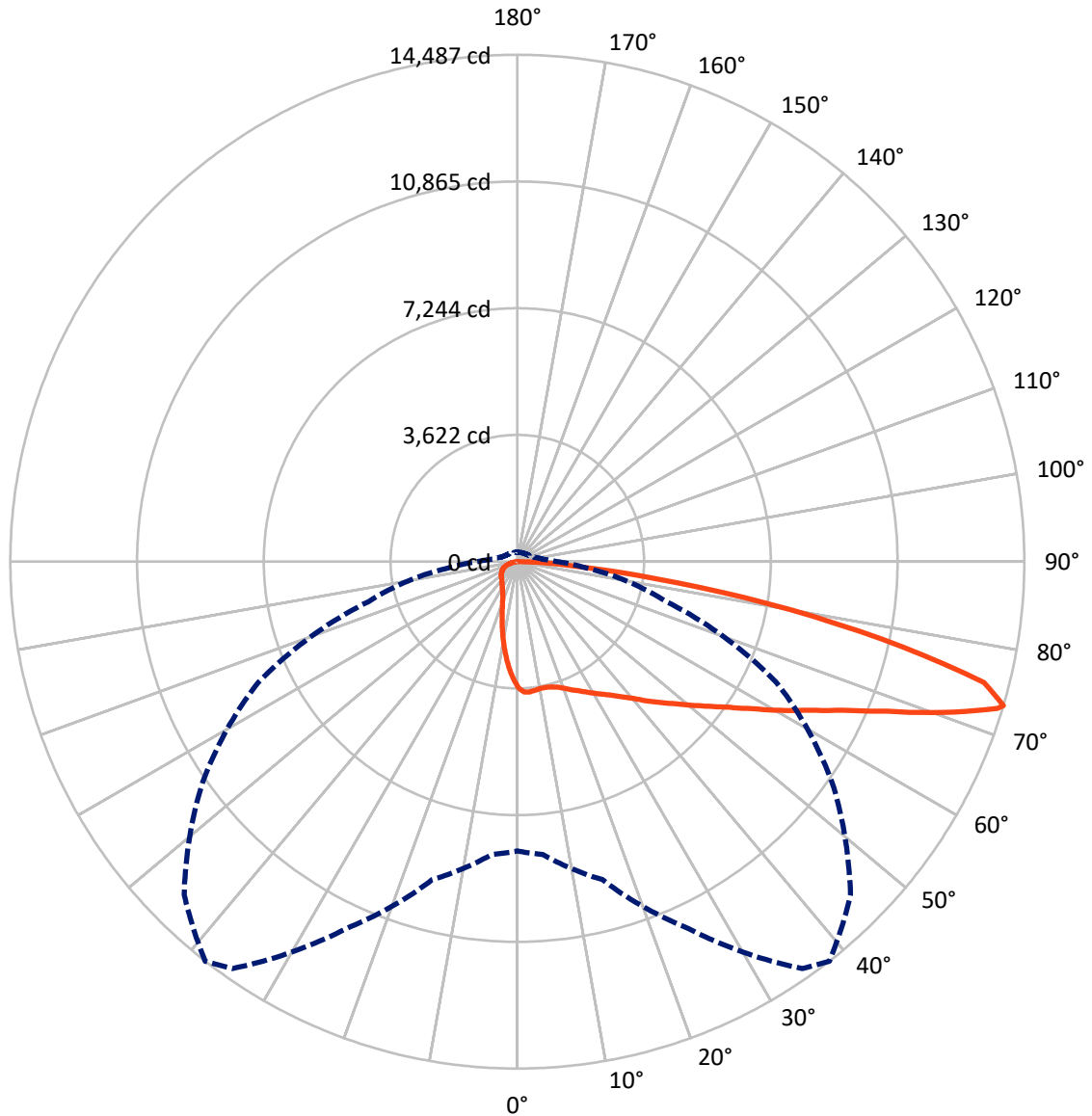
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2759.2	0.0	2759.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17765.8	0.0	17765.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	20525.0	0.0	20525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.5
10°-20°	807.1	3.9
20°-30°	1256.9	6.1
30°-40°	1843.5	9.0
40°-50°	2734.7	13.3
50°-60°	3874.5	18.9
60°-70°	4914.9	23.9
70°-80°	4091.3	19.9
80°-90°	687.4	3.3
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°	20525.0	100.0
0°-180°	20525.0	100.0

Coefficient of Utilization



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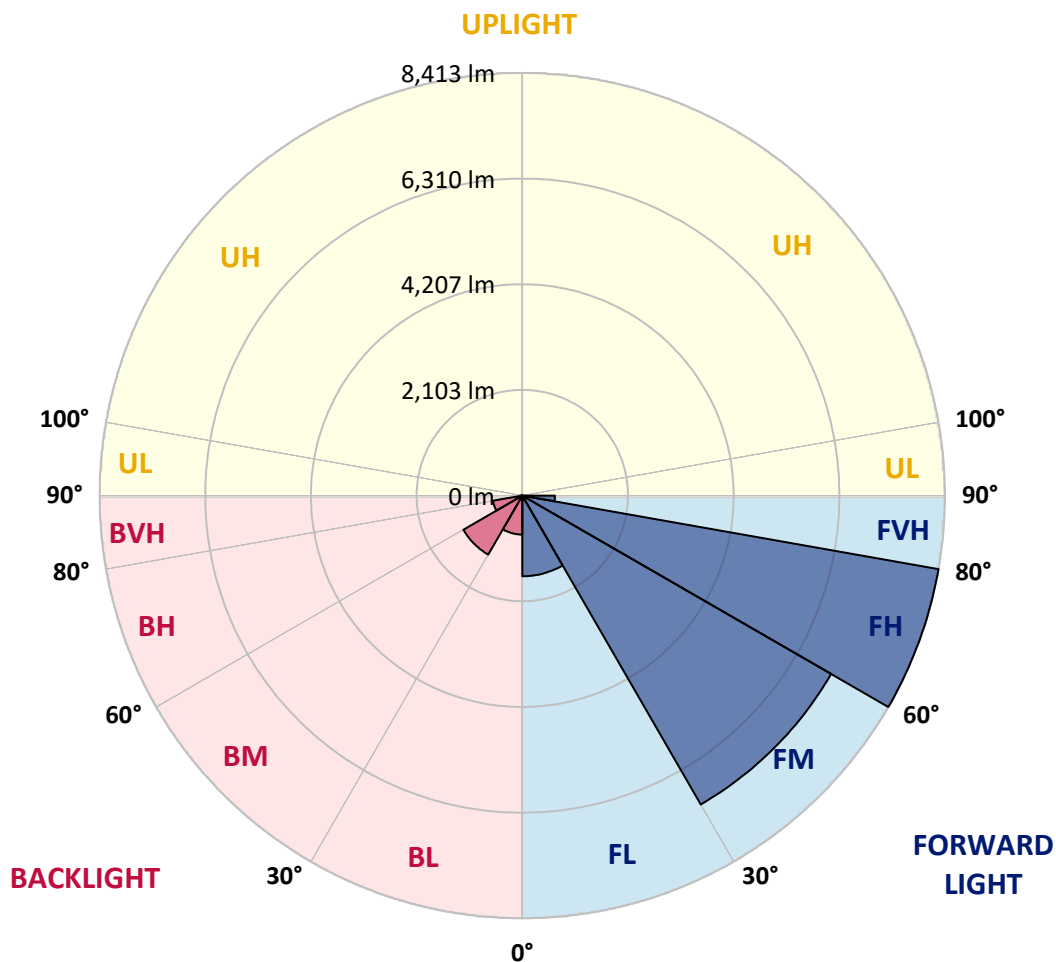
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.5	7.8			
FM	(30°-60°)	7098.1	34.6			
FH	(60°-80°)	8413.1	41.0			G4/12000
FVH	(80°-90°)	650.1	3.2			G4/750
BL	(0°-30°)	774.3	3.8	B2/1000		
BM	(30°-60°)	1354.6	6.6	B2/2500		
BH	(60°-80°)	593.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	37.3	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9
2.5°	3750.8	3769.3	3760.1	3747.3	3739.2	3731.1	3719.5	3685.9	3659.2	3630.2	3585.0
5°	3778.6	3790.2	3782.1	3765.8	3747.3	3739.2	3717.2	3673.1	3630.2	3581.6	3514.3
7.5°	3762.4	3767.0	3757.7	3738.0	3721.8	3706.7	3681.2	3632.6	3580.4	3521.3	3433.2
10°	3704.4	3721.8	3721.8	3705.6	3689.3	3681.2	3655.7	3609.4	3561.8	3494.6	3390.3
12.5°	3656.9	3675.4	3690.5	3685.9	3684.7	3684.7	3665.0	3630.2	3574.6	3510.9	3386.8
15°	3624.4	3646.5	3678.9	3697.5	3709.1	3712.5	3704.4	3674.3	3617.5	3543.3	3400.7
17.5°	3617.5	3644.1	3703.3	3743.8	3774.0	3772.8	3770.5	3728.8	3666.2	3589.7	3418.1
20°	3648.8	3683.6	3765.8	3829.6	3873.6	3865.5	3852.8	3798.3	3725.3	3639.5	3434.4
22.5°	3742.7	3778.6	3869.0	3938.6	3981.4	3981.4	3943.2	3871.3	3793.7	3697.5	3456.4
25°	3877.1	3916.5	4012.7	4083.4	4103.1	4088.1	4049.8	3962.9	3873.6	3780.9	3502.7
27.5°	4041.7	4089.2	4178.5	4237.6	4231.8	4220.2	4180.8	4069.5	3980.3	3895.7	3581.6
30°	4246.9	4281.6	4374.4	4388.3	4367.4	4365.1	4309.5	4198.2	4114.7	4049.8	3694.0
32.5°	4440.4	4471.7	4545.9	4551.7	4514.6	4519.2	4467.1	4365.1	4317.6	4294.4	3882.9
35°	4645.6	4661.8	4725.6	4718.6	4694.3	4690.8	4669.9	4572.6	4587.6	4629.4	4150.7
37.5°	4817.1	4849.6	4885.5	4891.3	4890.2	4901.7	4915.7	4869.3	4956.2	5087.2	4501.9
40°	4974.8	5002.6	5055.9	5074.4	5119.7	5142.8	5190.4	5191.5	5392.0	5607.6	4934.2
42.5°	5081.4	5128.9	5228.6	5262.2	5372.3	5441.9	5512.6	5587.9	5878.8	6155.9	5444.2
45°	5174.1	5236.7	5402.5	5506.8	5656.3	5740.9	5890.4	6048.1	6466.5	6829.3	5962.3
47.5°	5314.4	5370.0	5560.1	5744.4	5970.4	6067.8	6291.5	6526.8	7073.9	7471.4	6458.4
50°	5509.1	5542.7	5736.3	6036.5	6325.1	6450.3	6745.8	7085.4	7722.9	8105.4	6894.2
52.5°	5758.3	5772.2	5926.4	6326.3	6706.4	6861.7	7253.5	7649.9	8290.9	8656.0	7239.6
55°	6052.7	6029.5	6150.1	6633.4	7142.2	7345.1	7765.8	8221.3	8929.5	9101.1	7491.1
57.5°	6343.6	6307.7	6403.9	7006.6	7680.1	7924.6	8414.9	8810.2	9499.8	9517.2	7667.3
60°	6652.0	6625.3	6740.0	7444.8	8339.6	8629.3	9082.5	9421.0	10051.5	9807.0	7695.1
62.5°	6968.4	6925.5	7088.9	7937.4	9082.5	9345.7	9784.9	10070.1	10592.8	9914.8	7427.4
65°	7275.5	7255.8	7508.5	8522.7	9928.7	10227.7	10654.3	10847.8	11026.3	9752.5	6763.2
67.5°	7602.4	7641.8	8045.2	9303.9	11032.1	11407.7	11867.8	11685.8	11150.3	8984.0	5695.7
70°	8100.8	8126.3	8749.9	10327.4	12454.3	12907.5	13130.0	11983.7	10552.3	7524.7	4281.6
72.5°	8315.2	8427.7	9379.3	11401.9	14070.1	14347.1	13554.3	11319.6	8790.5	5111.5	2249.8
73°	8267.7	8402.2	9408.2	11565.3	14196.4	14487.3	13463.9	10977.6	8171.5	4402.2	1928.7
75°	7675.4	7841.2	9031.5	11428.5	13950.7	13776.8	12010.4	9356.1	5521.9	2001.7	878.6
77.5°	6056.2	6103.7	7156.2	9228.6	10985.8	10663.5	8988.7	5847.6	2255.6	744.1	498.4
80°	3037.9	3213.0	4033.6	5286.6	7346.2	7240.8	5673.7	2765.6	940.0	437.0	330.3
82.5°	1461.6	1585.6	1964.6	2577.8	4059.1	3962.9	2809.6	1511.4	596.9	255.0	194.7
85°	941.2	1033.9	1250.6	1229.8	1669.1	1593.7	1262.2	1144.0	353.5	133.3	135.6
87.5°	621.3	680.4	816.0	652.6	607.4	549.4	557.5	644.4	69.5	51.0	18.5
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°	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9	3605.9
2.5°	3566.5	3551.4	3501.6	3452.9	3406.5	3362.5	3333.5	3295.3	3269.8	3276.7	3287.1
5°	3477.2	3443.6	3355.5	3269.8	3188.6	3092.4	3014.8	2952.2	2904.7	2887.3	2883.8
7.5°	3383.4	3326.6	3200.2	3053.0	2915.1	2795.7	2657.8	2589.4	2509.4	2481.6	2472.3
10°	3326.6	3250.1	3072.7	2867.6	2660.1	2461.9	2312.4	2190.7	2080.5	2059.7	2049.3
12.5°	3310.3	3209.5	2970.7	2706.4	2430.6	2187.2	1965.8	1805.8	1699.2	1674.9	1638.9
15°	3301.1	3175.9	2875.7	2544.2	2194.1	1897.4	1664.4	1477.8	1380.5	1315.6	1316.7
17.5°	3292.9	3137.6	2769.0	2366.8	1990.1	1648.2	1390.9	1222.8	1133.6	1098.8	1095.3
20°	3281.4	3092.4	2646.2	2180.2	1757.2	1421.0	1188.1	1062.9	1002.6	973.6	972.5
22.5°	3276.7	3048.4	2525.6	1990.1	1550.8	1246.0	1053.6	965.5	927.3	907.6	907.6
25°	3288.3	3017.1	2399.3	1809.3	1367.7	1096.5	960.9	900.6	878.6	868.2	864.7
27.5°	3324.2	3003.2	2274.1	1628.5	1199.6	994.5	898.3	856.6	840.3	832.2	833.4
30°	3392.6	3002.0	2151.3	1450.0	1074.5	916.8	848.4	819.5	806.7	802.1	800.9
32.5°	3502.7	3027.5	2030.7	1302.8	969.0	851.9	802.1	781.2	775.4	771.9	770.8
35°	3689.3	3099.4	1911.3	1168.4	887.9	794.0	758.0	747.6	739.5	743.0	744.1
37.5°	3940.9	3223.4	1797.7	1062.9	826.4	751.1	720.9	711.7	707.0	710.5	714.0
40°	4278.2	3401.9	1702.7	978.3	782.4	715.2	688.5	680.4	675.7	681.5	682.7
42.5°	4650.2	3608.2	1623.9	912.2	746.4	685.0	659.5	650.2	646.8	650.2	651.4
45°	5032.7	3848.1	1583.3	864.7	716.3	663.0	636.3	625.9	617.8	615.5	618.9
47.5°	5409.4	4056.8	1582.1	835.7	692.0	643.3	614.3	602.7	592.3	586.5	585.3
50°	5716.6	4222.5	1610.0	822.9	671.1	621.3	592.3	580.7	566.8	555.2	557.5
52.5°	5948.4	4330.3	1622.7	817.2	659.5	598.1	569.1	558.7	542.4	527.4	527.4
55°	6097.9	4355.8	1591.4	811.4	650.2	573.7	542.4	533.2	516.9	501.9	501.9
57.5°	6148.9	4277.0	1479.0	797.4	641.0	552.9	515.8	507.7	494.9	479.9	477.5
60°	6030.7	4010.4	1281.9	755.7	622.4	530.9	486.8	483.3	478.7	465.9	464.8
62.5°	5575.2	3444.8	1067.5	701.2	591.1	507.7	460.2	465.9	469.4	462.5	461.3
65°	4817.1	2796.9	912.2	625.9	549.4	475.2	431.2	446.2	455.5	455.5	453.2
67.5°	3907.3	2147.8	768.5	561.0	497.2	431.2	398.7	410.3	417.3	415.0	420.7
70°	2777.2	1454.6	625.9	486.8	431.2	381.3	357.0	357.0	352.4	350.0	350.0
72.5°	1346.8	831.1	507.7	406.8	367.4	325.7	306.0	297.9	288.6	287.5	281.7
73°	1125.5	745.3	484.5	391.8	352.4	317.6	295.6	282.8	277.0	272.4	271.2
75°	685.0	565.6	404.5	330.3	300.2	273.5	253.8	242.2	236.5	233.0	231.8
77.5°	450.9	421.9	314.1	252.7	229.5	213.3	205.2	193.6	190.1	185.5	185.5
80°	336.1	322.2	224.9	178.5	164.6	150.7	148.4	146.0	136.8	131.0	128.7
82.5°	216.7	229.5	153.0	119.4	104.3	92.7	93.9	97.4	88.1	80.0	77.7
85°	154.2	165.7	92.7	54.5	44.0	38.2	42.9	38.2	39.4	31.3	25.5
87.5°	25.5	44.0	16.2	7.0	3.5	2.3	0.0	0.0	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)