

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: P646884

Luminaire Tested: **GALN-SA4C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646884  
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-SA4C-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA 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: 12710.4 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

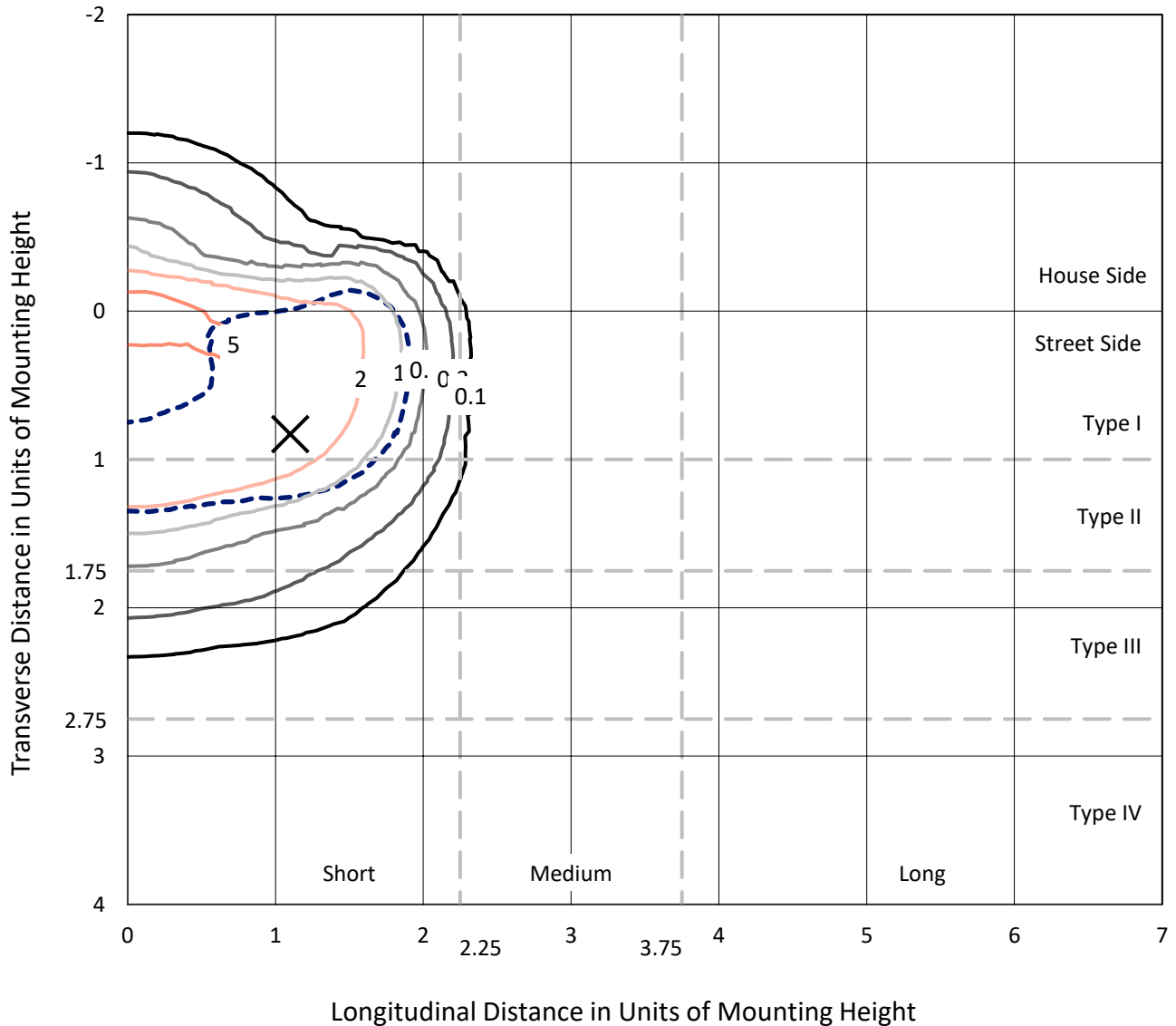
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

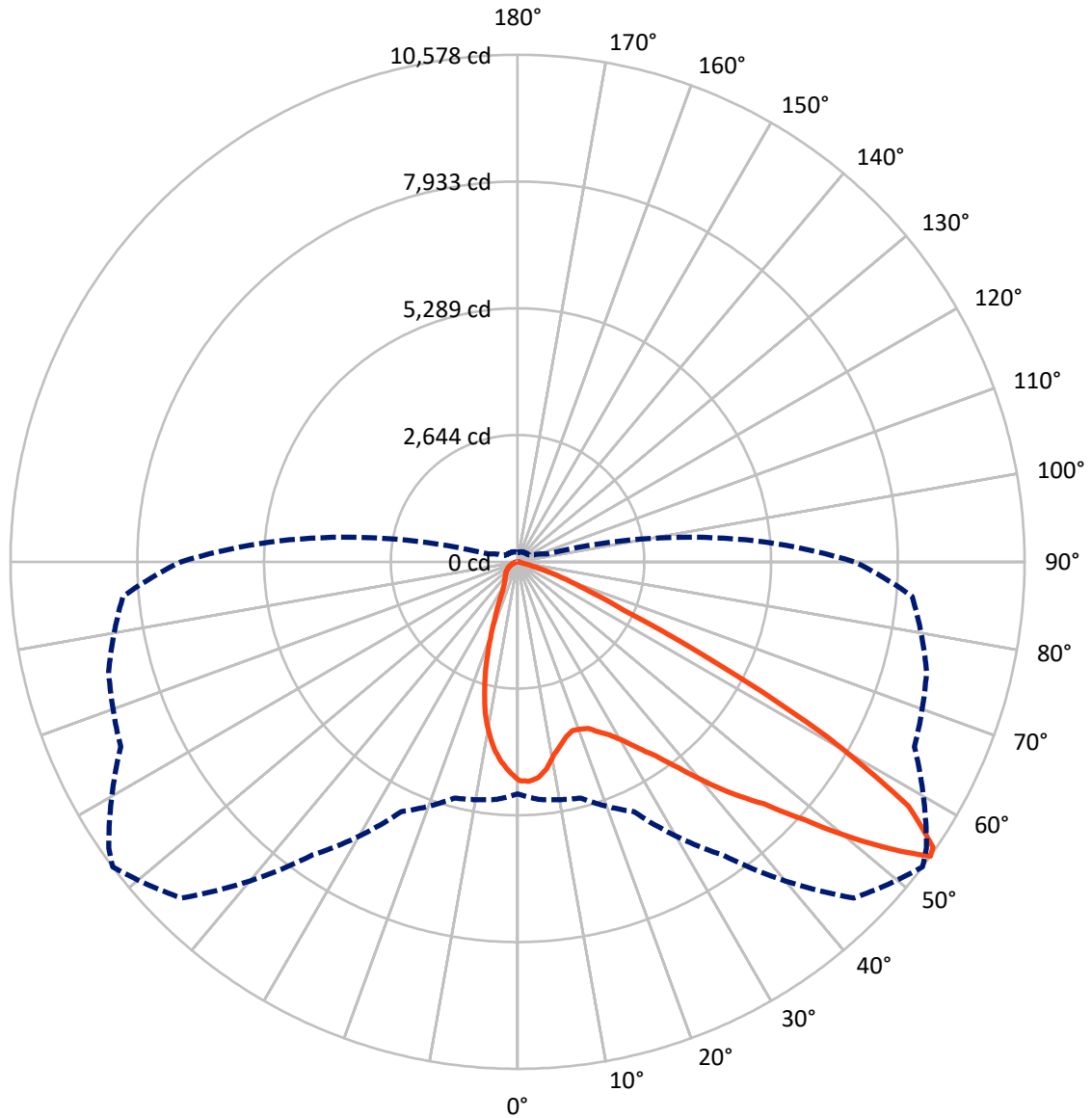
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2103.0	0.0	2103.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10607.5	0.0	10607.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12710.4	0.0	12710.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.7	3.1
10°-20°	898.0	7.1
20°-30°	1276.3	10.0
30°-40°	1969.7	15.5
40°-50°	3088.3	24.3
50°-60°	3587.5	28.2
60°-70°	1355.6	10.7
70°-80°	128.9	1.0
80°-90°	14.5	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°	12710.4	100.0
0°-180°	12710.4	100.0

**Coefficient of Utilization**

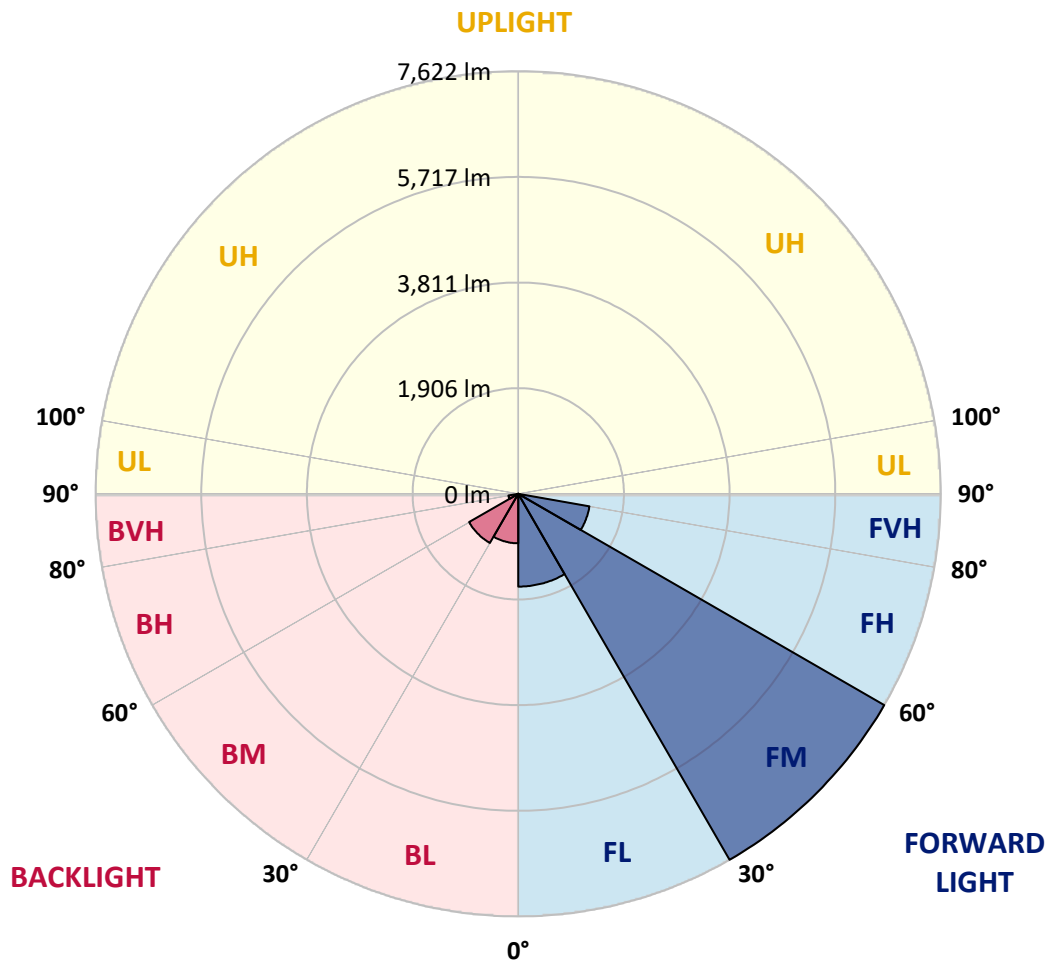


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.6	13.2			
FM (30°-60°)	7622.1	60.0			
FH (60°-80°)	1304.3	10.3			G1/1800
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	892.4	7.0	B2/1000		
BM (30°-60°)	1023.4	8.1	B2/2500		
BH (60°-80°)	180.2	1.4	B1/500		G1/500
BVH (80°-90°)	7.0	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°	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4
2.5°	4541.7	4501.5	4541.7	4546.4	4574.8	4600.9	4584.3	4622.2	4600.9	4577.2	4570.1
5°	4174.6	4229.1	4231.5	4316.8	4297.8	4454.1	4522.8	4503.8	4619.9	4612.7	4596.1
7.5°	3845.5	3824.3	3852.6	3952.1	4077.6	4257.6	4357.0	4354.7	4520.4	4638.8	4626.9
10°	3540.0	3537.7	3596.9	3675.0	3781.6	3971.1	4108.4	4177.1	4435.1	4615.1	4641.2
12.5°	3334.0	3324.5	3388.5	3452.5	3620.6	3767.4	3942.6	3975.8	4271.7	4532.2	4574.8
15°	3199.1	3220.4	3225.1	3348.3	3454.8	3649.0	3786.4	3855.0	4195.9	4465.9	4629.3
17.5°	3175.4	3203.8	3206.2	3308.0	3421.6	3585.0	3705.8	3798.2	4132.0	4499.0	4631.7
20°	3222.7	3206.2	3220.4	3284.3	3395.6	3551.9	3727.2	3757.9	4110.8	4515.6	4657.8
22.5°	3357.7	3353.0	3317.5	3369.6	3447.7	3611.1	3776.9	3824.3	4172.3	4600.9	4679.1
25°	3506.9	3533.0	3499.8	3492.7	3547.1	3708.2	3928.4	3989.9	4378.3	4754.8	4745.4
27.5°	3786.4	3760.3	3760.3	3727.2	3712.9	3791.1	4091.8	4193.6	4608.0	4953.7	4821.1
30°	4053.9	4082.3	4061.0	4072.9	3978.1	3971.1	4323.9	4449.3	5015.3	5256.8	4982.2
32.5°	4477.7	4439.8	4475.4	4444.6	4319.1	4191.2	4638.8	4769.0	5507.8	5604.9	5223.6
35°	4830.6	4814.0	4965.6	4960.9	4757.2	4631.7	4972.7	5166.9	5851.1	6021.7	5507.8
37.5°	5332.6	5301.8	5474.7	5557.6	5375.2	5188.2	5451.0	5676.0	6170.8	6355.5	5799.1
40°	5848.8	5926.9	6159.0	6296.3	6102.2	5853.6	6035.8	6104.5	6384.0	6573.4	5997.9
42.5°	6502.3	6616.0	6852.8	6971.2	6954.6	6684.7	6630.2	6627.9	6537.9	6511.8	6144.7
45°	7129.8	7087.2	7451.9	7710.0	7918.4	7840.3	7203.3	7132.2	6781.8	6604.1	6182.6
47.5°	7404.5	7390.3	7638.9	8098.3	8808.8	8905.8	8036.8	7762.1	7193.8	6992.5	6388.7
50°	7049.3	7122.7	7369.0	7878.1	8967.4	9708.5	9059.7	8690.3	7674.5	7466.1	6876.5
52.5°	5889.0	5938.7	6173.2	6819.6	8427.5	10182.1	10040.0	9826.9	8557.7	8212.0	7726.6
54°	4842.4	4975.0	5102.9	5751.7	7466.1	9919.3	10577.5	10414.1	9133.1	8832.4	8261.7
55°	4217.3	4295.5	4387.8	5034.2	6800.7	9474.1	10516.0	10530.2	9519.1	9026.6	8621.6
57.5°	3080.7	3135.1	3040.4	3327.0	4669.6	7693.4	9618.5	10002.1	10040.0	9317.9	8841.9
60°	2353.7	2377.4	2270.9	2315.8	2903.1	5280.5	7440.1	7901.8	9057.4	8143.4	7489.8
62.5°	1825.6	1830.4	1828.1	1906.2	2000.9	3106.7	4653.0	5062.6	6244.3	5782.5	5086.3
65°	1345.0	1323.7	1361.6	1598.3	1707.3	1953.5	2450.8	2749.2	3393.3	2865.2	2048.2
67.5°	871.4	878.5	916.4	1188.7	1463.3	1498.9	1508.4	1484.7	1487.1	819.3	513.8
70°	523.3	535.2	523.3	672.5	1046.6	1075.1	982.7	959.0	748.2	194.2	191.8
72.5°	310.2	293.6	262.9	288.9	435.7	520.9	468.9	466.5	293.6	113.7	113.7
75°	130.2	118.4	97.1	87.6	116.0	111.3	111.3	99.4	78.1	75.8	71.0
77.5°	26.1	26.1	18.9	21.3	28.4	33.1	40.2	40.2	47.4	47.4	45.0
80°	0.0	2.3	7.1	14.2	21.3	30.8	35.5	35.5	40.2	40.2	33.1
82.5°	0.0	2.3	7.1	14.2	18.9	28.4	35.5	35.5	40.2	42.6	35.5
85°	0.0	2.3	7.1	11.8	18.9	23.6	23.6	21.3	16.6	14.2	9.5
87.5°	0.0	0.0	2.3	4.7	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4
2.5°	4586.7	4584.3	4527.5	4435.1	4413.8	4335.7	4326.2	4278.9	4304.9	4217.3	4207.8
5°	4548.8	4520.4	4451.7	4392.6	4219.7	4096.5	3999.4	3881.0	3812.3	3824.3	3779.2
7.5°	4603.3	4529.9	4409.1	4203.1	3992.4	3776.9	3660.8	3419.3	3331.7	3201.5	3182.5
10°	4546.4	4492.0	4304.9	3963.9	3672.7	3362.4	3090.2	2822.6	2618.9	2531.3	2512.4
12.5°	4541.7	4447.0	4134.4	3755.6	3334.0	2888.9	2493.5	2159.6	1958.3	1844.6	1818.6
15°	4468.3	4354.7	3942.6	3433.5	2851.0	2296.9	1866.0	1543.9	1390.0	1323.7	1342.6
17.5°	4475.4	4304.9	3750.8	3092.5	2375.1	1686.0	1273.9	1108.2	1067.9	1084.5	1084.5
20°	4468.3	4193.6	3518.7	2699.5	1818.6	1169.7	935.4	876.1	902.2	954.2	942.4
22.5°	4430.4	4141.5	3305.7	2285.0	1337.9	866.7	750.7	753.0	793.3	857.2	871.4
25°	4458.8	4025.5	3035.7	1866.0	975.6	691.5	651.1	667.7	710.4	757.7	767.2
27.5°	4437.5	3942.6	2753.9	1449.2	712.8	594.4	591.9	610.9	629.8	665.4	665.4
30°	4461.2	3866.8	2476.9	1077.4	587.2	544.7	535.2	549.4	568.3	575.4	573.1
32.5°	4548.8	3810.0	2157.2	805.1	518.6	497.3	497.3	497.3	494.9	504.4	506.8
35°	4740.6	3819.5	1875.4	622.8	473.6	457.0	449.9	440.4	435.7	440.4	442.8
37.5°	4949.0	3814.8	1584.2	530.4	440.4	426.3	409.7	395.4	393.1	397.8	390.7
40°	5041.3	3859.7	1314.2	476.0	409.7	393.1	367.0	355.2	357.6	362.3	357.6
42.5°	5166.9	3874.0	1139.0	433.3	381.2	355.2	338.6	324.4	322.0	329.2	326.7
45°	5164.4	3793.4	954.2	409.7	355.2	326.7	305.4	293.6	293.6	298.3	300.8
47.5°	5316.0	3781.6	819.3	388.4	336.2	307.8	281.8	272.3	270.0	270.0	265.2
50°	5668.8	3947.3	715.1	364.6	312.6	286.5	265.2	253.4	243.9	239.1	236.8
52.5°	6357.9	4463.6	634.6	336.2	286.5	265.2	246.3	236.8	225.0	213.1	210.8
54°	7025.6	4996.3	629.8	312.6	265.2	251.0	234.4	229.7	215.5	198.9	194.2
55°	7326.4	5306.5	646.4	293.6	251.0	241.6	227.3	222.6	208.4	189.4	187.1
57.5°	7575.1	5427.3	637.0	243.9	227.3	225.0	213.1	206.0	189.4	163.4	158.6
60°	6097.5	4103.6	457.0	215.5	208.4	203.7	194.2	189.4	168.1	139.7	137.3
62.5°	3852.6	2360.8	291.3	189.4	182.4	175.2	163.4	158.6	139.7	111.3	104.2
65°	1641.0	978.0	196.5	168.1	156.3	144.5	135.0	127.9	111.3	82.8	80.5
67.5°	426.3	348.1	163.4	146.8	130.2	113.7	106.6	94.7	75.8	56.8	54.5
70°	191.8	175.2	137.3	123.2	104.2	87.6	78.1	66.3	49.7	37.9	35.5
72.5°	113.7	111.3	104.2	92.3	78.1	66.3	56.8	45.0	33.1	21.3	21.3
75°	71.0	68.7	71.0	64.0	54.5	49.7	42.6	30.8	18.9	9.5	9.5
77.5°	42.6	42.6	42.6	40.2	37.9	37.9	30.8	18.9	9.5	2.3	2.3
80°	33.1	33.1	35.5	33.1	33.1	33.1	26.1	14.2	4.7	0.0	0.0
82.5°	33.1	35.5	40.2	37.9	33.1	28.4	23.6	14.2	4.7	0.0	0.0
85°	9.5	7.1	11.8	16.6	23.6	21.3	16.6	11.8	4.7	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	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)