

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: P530051

Luminaire Tested: **GALN-SA5B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530051  
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-SA5B-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 15147 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

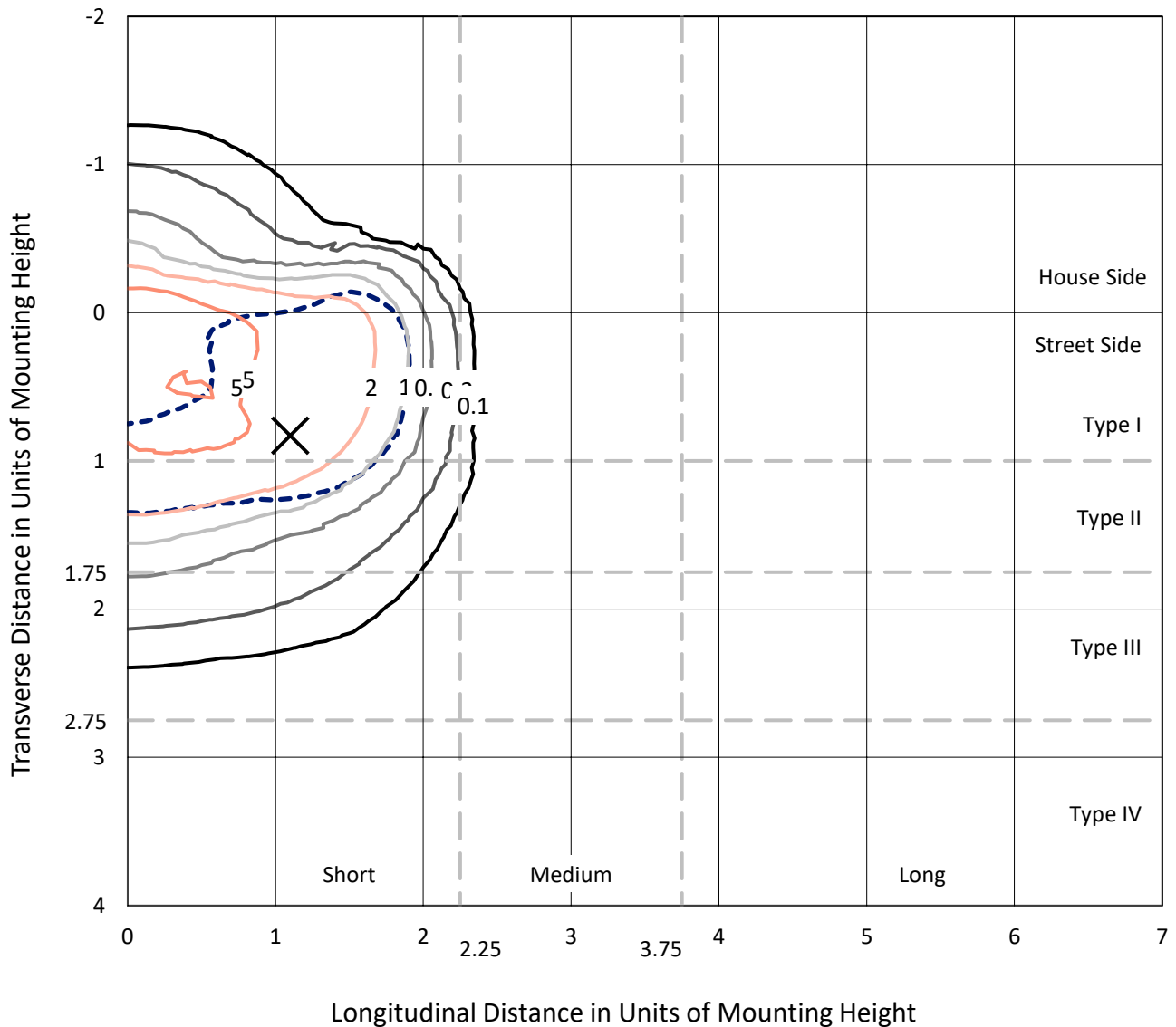
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

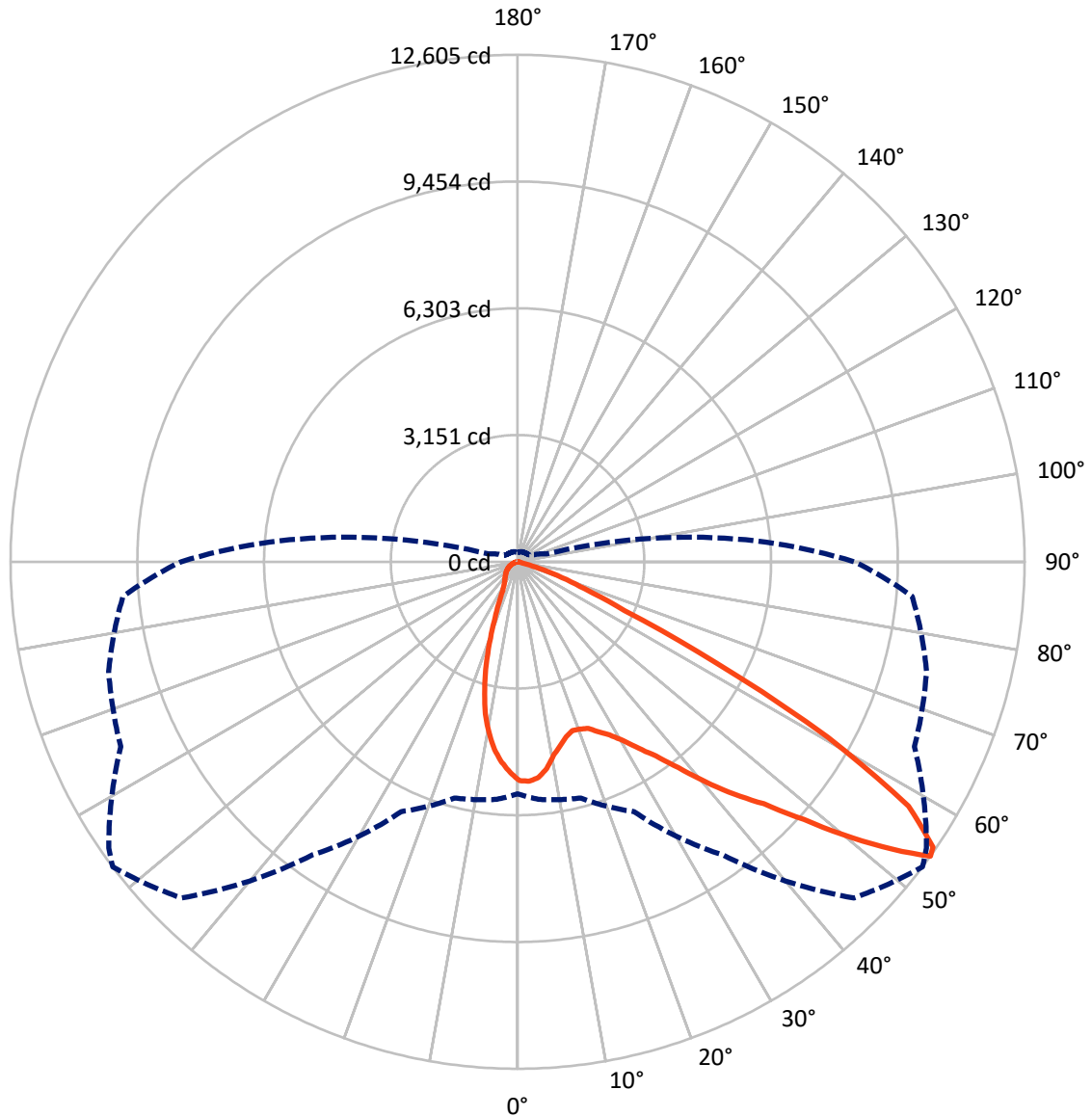
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2506.1	0.0	2506.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12640.9	0.0	12640.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	15147.0	0.0	15147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.8	3.1
10°-20°	1070.2	7.1
20°-30°	1521.0	10.0
30°-40°	2347.3	15.5
40°-50°	3680.3	24.3
50°-60°	4275.2	28.2
60°-70°	1615.4	10.7
70°-80°	153.6	1.0
80°-90°	17.3	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°	15147.0	100.0
0°-180°	15147.0	100.0

**Coefficient of Utilization**

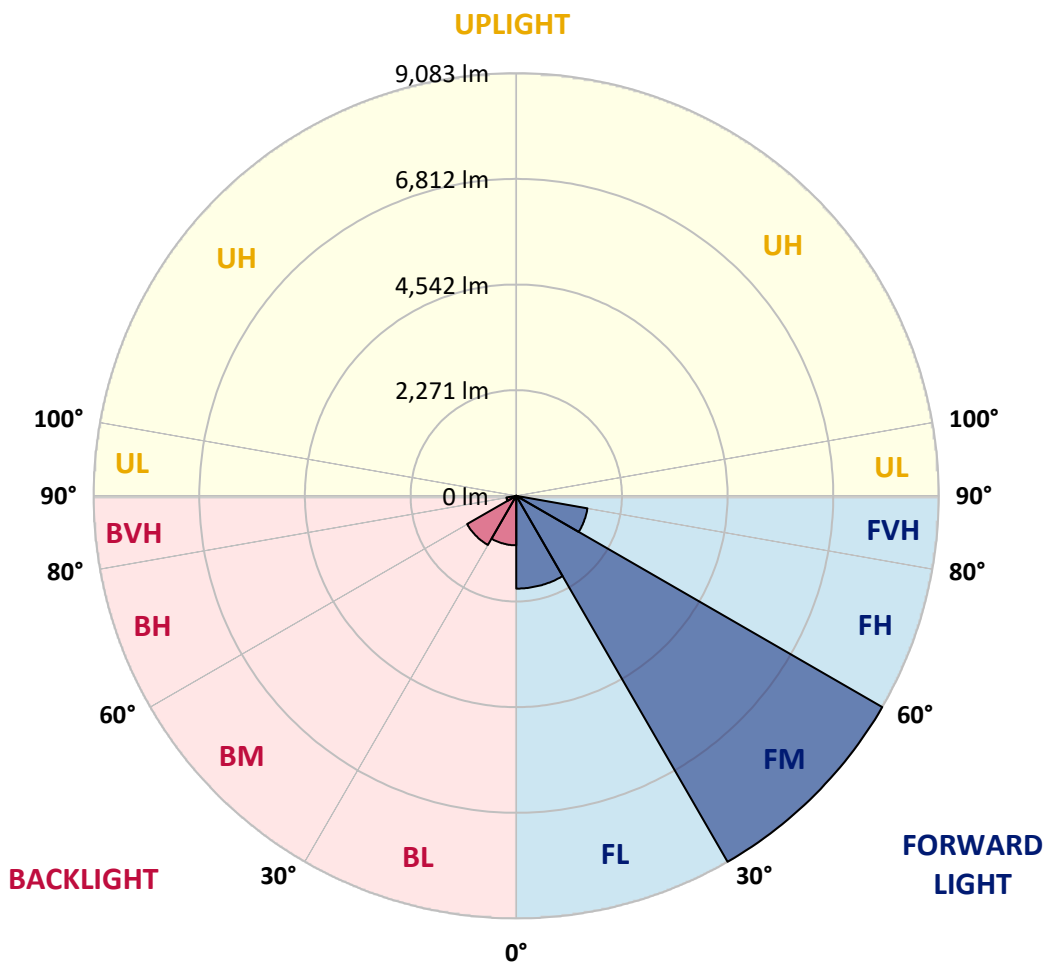


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1994.5	13.2			
FM (30°-60°)	9083.2	60.0			
FH (60°-80°)	1554.3	10.3			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	1063.5	7.0	B3/2500		
BM (30°-60°)	1219.5	8.1	B2/2500		
BH (60°-80°)	214.7	1.4	B1/500		G1/500
BVH (80°-90°)	8.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5
2.5°	5412.3	5364.4	5412.3	5418.0	5451.8	5482.9	5463.1	5508.3	5482.9	5454.7	5446.2
5°	4974.9	5039.8	5042.7	5144.3	5121.7	5307.9	5389.8	5367.2	5505.4	5497.0	5477.2
7.5°	4582.7	4557.3	4591.2	4709.7	4859.2	5073.7	5192.2	5189.4	5386.9	5528.0	5513.9
10°	4218.7	4215.9	4286.4	4379.5	4506.5	4732.3	4895.9	4977.8	5285.3	5499.8	5530.8
12.5°	3973.2	3961.9	4038.1	4114.3	4314.6	4489.6	4698.4	4737.9	5090.6	5401.0	5451.8
15°	3812.3	3837.7	3843.4	3990.1	4117.1	4348.5	4512.2	4594.0	5000.3	5322.0	5516.7
17.5°	3784.1	3818.0	3820.8	3942.1	4077.6	4272.3	4416.2	4526.3	4924.1	5361.5	5519.6
20°	3840.6	3820.8	3837.7	3913.9	4046.5	4232.8	4441.6	4478.3	4898.7	5381.3	5550.6
22.5°	4001.4	3995.8	3953.4	4015.5	4108.6	4303.3	4500.9	4557.3	4972.1	5482.9	5576.0
25°	4179.2	4210.2	4170.7	4162.2	4227.1	4419.0	4681.5	4754.8	5217.6	5666.3	5655.0
27.5°	4512.2	4481.1	4481.1	4441.6	4424.7	4517.8	4876.2	4997.5	5491.3	5903.3	5745.3
30°	4831.0	4864.9	4839.5	4853.6	4740.7	4732.3	5152.7	5302.3	5976.7	6264.5	5937.2
32.5°	5336.1	5291.0	5333.3	5296.6	5147.1	4994.7	5528.0	5683.2	6563.6	6679.3	6225.0
35°	5756.6	5736.8	5917.4	5911.8	5669.1	5519.6	5925.9	6157.3	6972.8	7176.0	6563.6
37.5°	6354.8	6318.1	6524.1	6622.9	6405.6	6182.7	6495.9	6764.0	7353.8	7573.9	6910.7
40°	6970.0	7063.1	7339.7	7503.3	7271.9	6975.6	7192.9	7274.8	7607.7	7833.5	7147.8
42.5°	7748.8	7884.3	8166.5	8307.6	8287.8	7966.1	7901.2	7898.4	7791.2	7760.1	7322.7
45°	8496.6	8445.8	8880.4	9188.0	9436.3	9343.2	8584.1	8499.4	8081.8	7870.2	7367.9
47.5°	8824.0	8807.0	9103.3	9650.8	10497.3	10613.0	9577.4	9250.1	8572.8	8333.0	7613.4
50°	8400.7	8488.2	8781.6	9388.3	10686.4	11569.6	10796.4	10356.2	9145.6	8897.3	8194.7
52.5°	7018.0	7077.2	7356.6	8127.0	10043.0	12134.0	11964.7	11710.7	10198.2	9786.2	9207.7
54°	5770.7	5928.7	6081.1	6854.3	8897.3	11820.8	12605.3	12410.5	10883.9	10525.5	9845.5
55°	5025.7	5118.9	5228.9	5999.3	8104.4	11290.3	12531.9	12548.8	11343.9	10756.9	10274.4
57.5°	3671.2	3736.1	3623.3	3964.7	5564.7	9168.2	11462.4	11919.5	11964.7	11104.0	10536.8
60°	2804.9	2833.1	2706.2	2759.8	3459.6	6292.7	8866.3	9416.5	10793.6	9704.4	8925.5
62.5°	2175.7	2181.3	2178.5	2271.6	2384.5	3702.3	5545.0	6033.1	7441.2	6891.0	6061.4
65°	1602.8	1577.4	1622.6	1904.8	2034.6	2328.0	2920.6	3276.2	4043.7	3414.5	2440.9
67.5°	1038.4	1046.9	1092.1	1416.6	1743.9	1786.2	1797.5	1769.3	1772.1	976.4	612.3
70°	623.6	637.7	623.6	801.4	1247.3	1281.1	1171.1	1142.9	891.7	231.4	228.6
72.5°	369.7	349.9	313.2	344.3	519.2	620.8	558.7	555.9	349.9	135.4	135.4
75°	155.2	141.1	115.7	104.4	138.3	132.6	132.6	118.5	93.1	90.3	84.7
77.5°	31.0	31.0	22.6	25.4	33.9	39.5	48.0	48.0	56.4	56.4	53.6
80°	0.0	2.8	8.5	16.9	25.4	36.7	42.3	42.3	48.0	48.0	39.5
82.5°	0.0	2.8	8.5	16.9	22.6	33.9	42.3	42.3	48.0	50.8	42.3
85°	0.0	2.8	8.5	14.1	22.6	28.2	28.2	25.4	19.8	16.9	11.3
87.5°	0.0	0.0	2.8	5.6	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5	5440.5
2.5°	5465.9	5463.1	5395.4	5285.3	5259.9	5166.8	5155.5	5099.1	5130.1	5025.7	5014.4
5°	5420.8	5386.9	5305.1	5234.6	5028.6	4881.8	4766.1	4625.0	4543.2	4557.3	4503.7
7.5°	5485.7	5398.2	5254.3	5008.8	4757.7	4500.9	4362.6	4074.8	3970.4	3815.2	3792.6
10°	5418.0	5353.1	5130.1	4723.8	4376.7	4007.0	3682.5	3363.7	3121.0	3016.6	2994.0
12.5°	5412.3	5299.5	4927.0	4475.5	3973.2	3442.7	2971.4	2573.5	2333.7	2198.2	2167.2
15°	5324.9	5189.4	4698.4	4091.7	3397.5	2737.2	2223.6	1839.9	1656.4	1577.4	1600.0
17.5°	5333.3	5130.1	4469.8	3685.3	2830.3	2009.2	1518.2	1320.6	1272.7	1292.4	1292.4
20°	5324.9	4997.5	4193.3	3216.9	2167.2	1394.0	1114.6	1044.1	1075.1	1137.2	1123.1
22.5°	5279.7	4935.4	3939.3	2723.1	1594.4	1032.8	894.5	897.4	945.3	1021.5	1038.4
25°	5313.6	4797.2	3617.6	2223.6	1162.6	824.0	776.0	795.8	846.6	903.0	914.3
27.5°	5288.2	4698.4	3281.8	1727.0	849.4	708.3	705.5	728.0	750.6	792.9	792.9
30°	5316.4	4608.1	2951.7	1283.9	699.8	649.0	637.7	654.7	677.2	685.7	682.9
32.5°	5420.8	4540.4	2570.7	959.4	618.0	592.6	592.6	592.6	589.8	601.1	603.9
35°	5649.4	4551.7	2234.9	742.1	564.4	544.6	536.2	524.9	519.2	524.9	527.7
37.5°	5897.7	4546.0	1887.8	632.1	524.9	507.9	488.2	471.3	468.4	474.1	465.6
40°	6007.7	4599.6	1566.1	567.2	488.2	468.4	437.4	423.3	426.1	431.7	426.1
42.5°	6157.3	4616.6	1357.3	516.4	454.3	423.3	403.5	386.6	383.8	392.2	389.4
45°	6154.5	4520.6	1137.2	488.2	423.3	389.4	364.0	349.9	349.9	355.6	358.4
47.5°	6335.1	4506.5	976.4	462.8	400.7	366.8	335.8	324.5	321.7	321.7	316.0
50°	6755.5	4704.0	852.2	434.6	372.5	341.4	316.0	301.9	290.7	285.0	282.2
52.5°	7576.7	5319.2	756.3	400.7	341.4	316.0	293.5	282.2	268.1	254.0	251.1
54°	8372.5	5954.1	750.6	372.5	316.0	299.1	279.4	273.7	256.8	237.0	231.4
55°	8730.8	6323.8	770.4	349.9	299.1	287.8	270.9	265.3	248.3	225.7	222.9
57.5°	9027.1	6467.7	759.1	290.7	270.9	268.1	254.0	245.5	225.7	194.7	189.1
60°	7266.3	4890.3	544.6	256.8	248.3	242.7	231.4	225.7	200.4	166.5	163.7
62.5°	4591.2	2813.4	347.1	225.7	217.3	208.8	194.7	189.1	166.5	132.6	124.2
65°	1955.5	1165.4	234.2	200.4	186.2	172.1	160.8	152.4	132.6	98.8	95.9
67.5°	507.9	414.8	194.7	175.0	155.2	135.4	127.0	112.9	90.3	67.7	64.9
70°	228.6	208.8	163.7	146.7	124.2	104.4	93.1	79.0	59.3	45.1	42.3
72.5°	135.4	132.6	124.2	110.1	93.1	79.0	67.7	53.6	39.5	25.4	25.4
75°	84.7	81.8	84.7	76.2	64.9	59.3	50.8	36.7	22.6	11.3	11.3
77.5°	50.8	50.8	50.8	48.0	45.1	45.1	36.7	22.6	11.3	2.8	2.8
80°	39.5	39.5	42.3	39.5	39.5	39.5	31.0	16.9	5.6	0.0	0.0
82.5°	39.5	42.3	48.0	45.1	39.5	33.9	28.2	16.9	5.6	0.0	0.0
85°	11.3	8.5	14.1	19.8	28.2	25.4	19.8	14.1	5.6	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	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)