

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: P530415

Luminaire Tested: **GALN-SA5C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530415
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-SA5C-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 15107 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

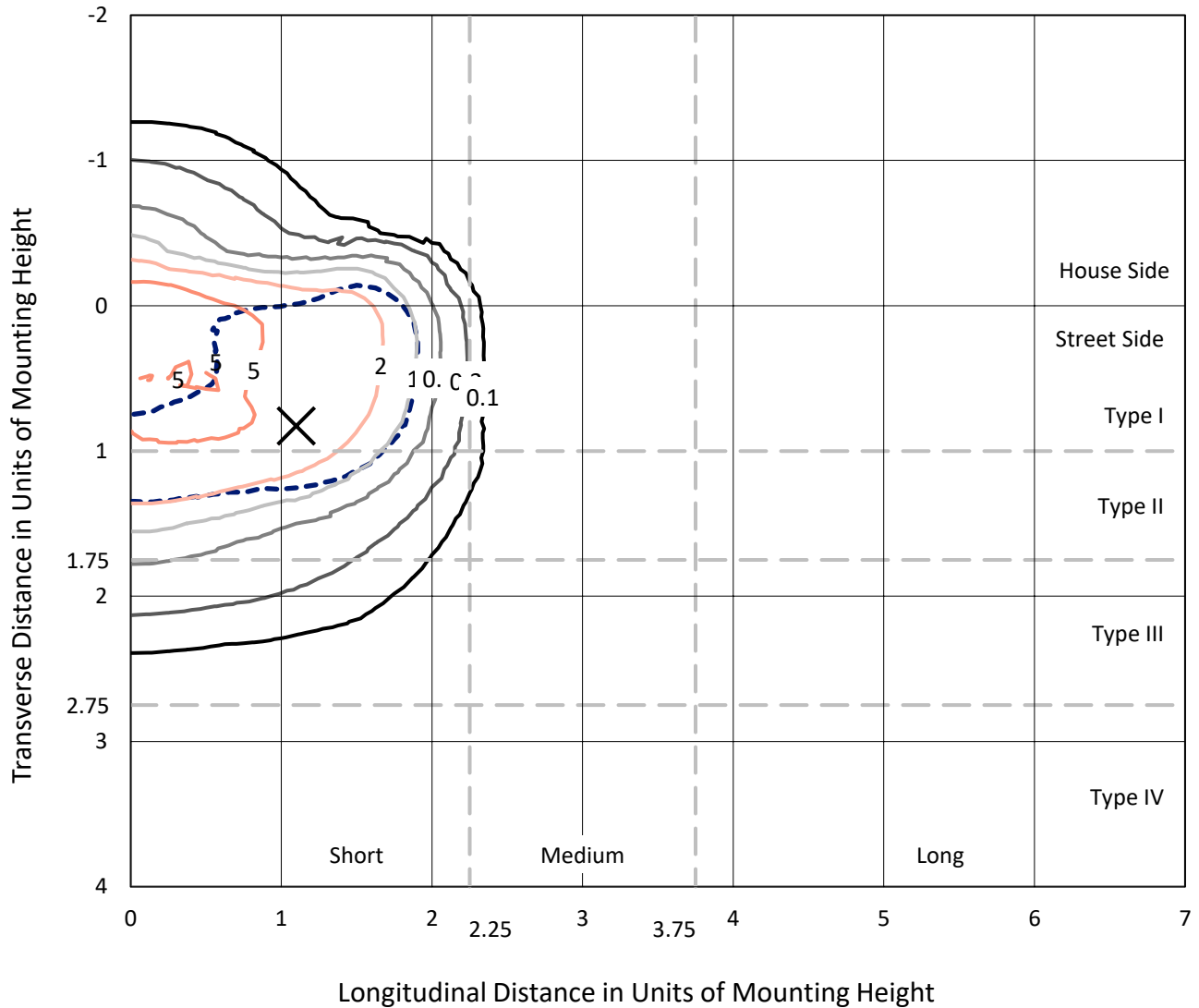
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

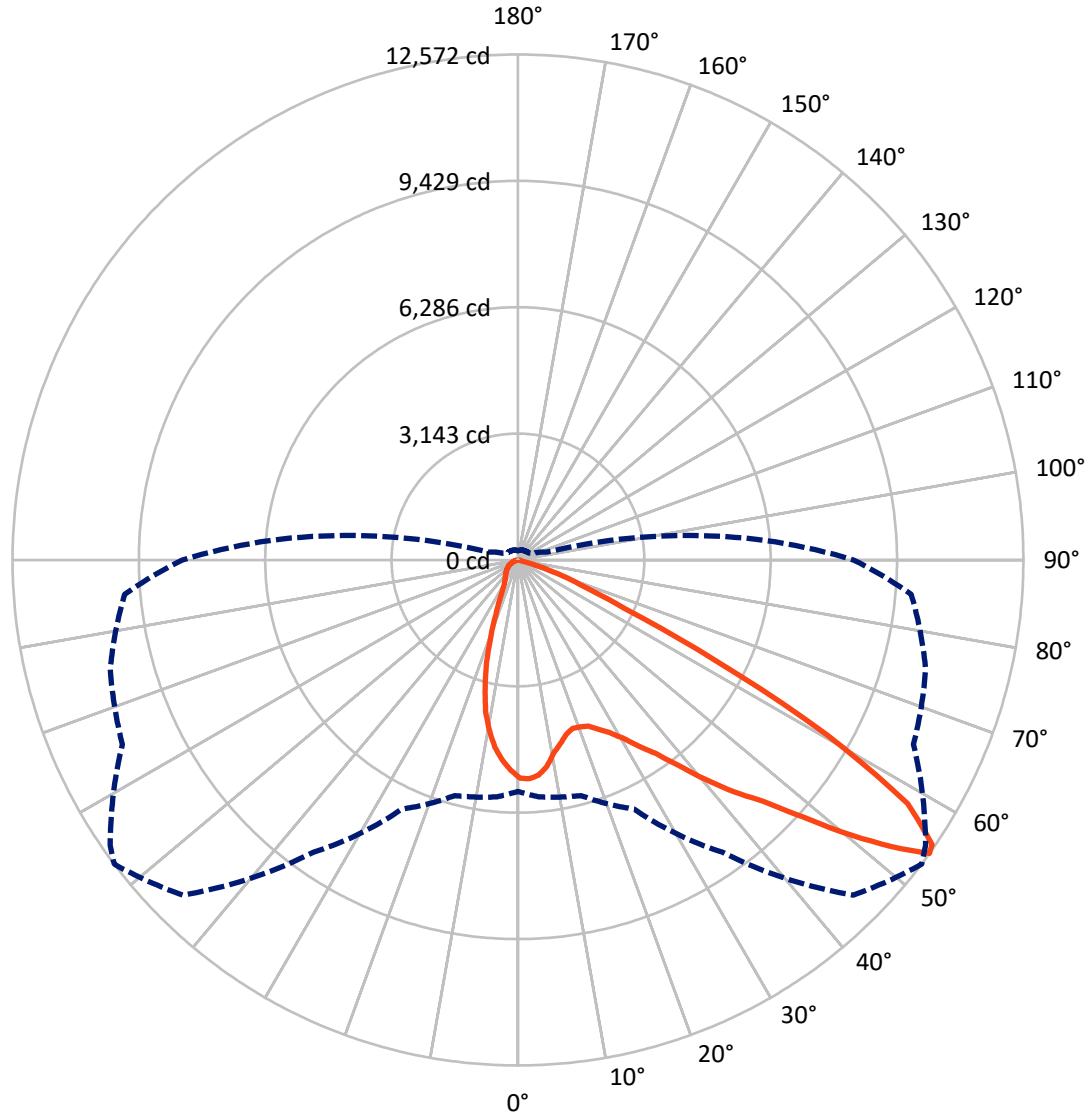
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2499.5	0.0	2499.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12607.5	0.0	12607.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	15107.0	0.0	15107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	3.1
10°-20°	1067.4	7.1
20°-30°	1517.0	10.0
30°-40°	2341.1	15.5
40°-50°	3670.6	24.3
50°-60°	4263.9	28.2
60°-70°	1611.2	10.7
70°-80°	153.2	1.0
80°-90°	17.2	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°	15107.0	100.0
0°-180°	15107.0	100.0

Coefficient of Utilization

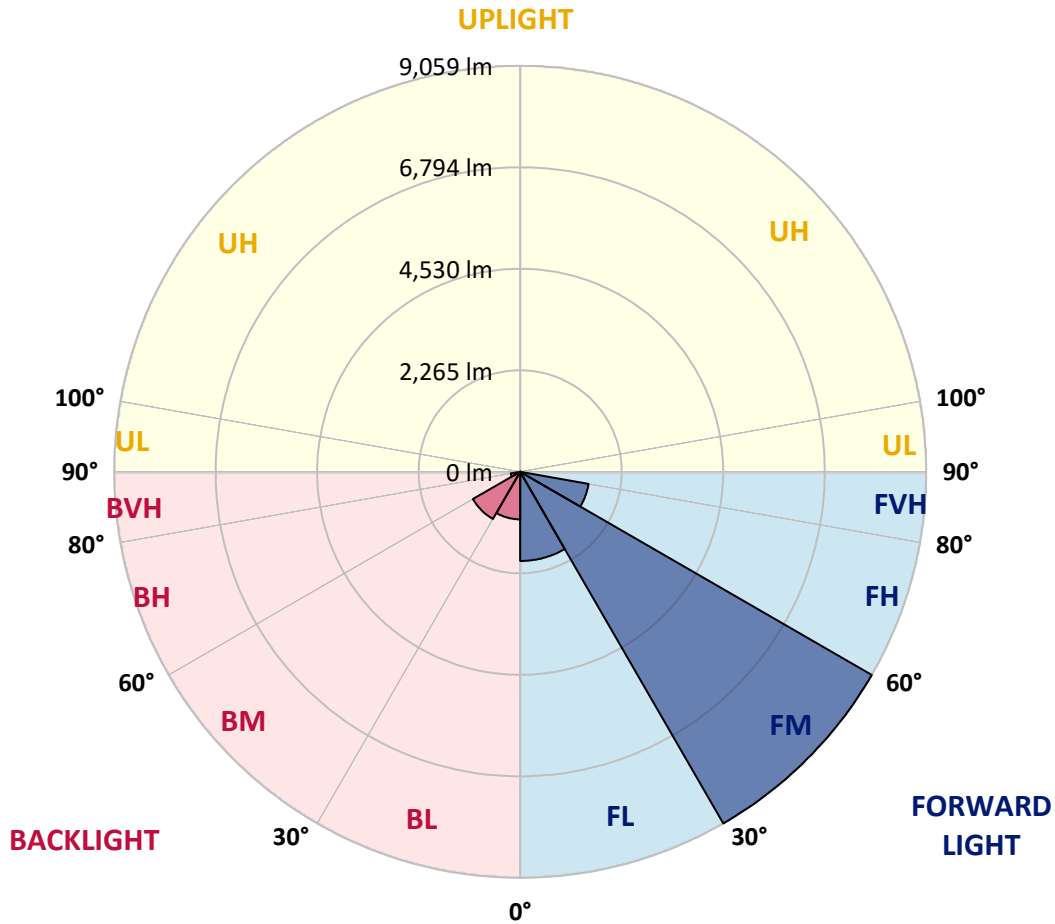


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1989.2	13.2			
FM (30°-60°)	9059.2	60.0			
FH (60°-80°)	1550.2	10.3			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	1060.7	7.0	B3/2500		
BM (30°-60°)	1216.3	8.1	B2/2500		
BH (60°-80°)	214.2	1.4	B1/500		G1/500
BVH (80°-90°)	8.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2
2.5°	5398.0	5350.2	5398.0	5403.7	5437.4	5468.4	5448.7	5493.7	5468.4	5440.3	5431.8
5°	4961.8	5026.5	5029.3	5130.7	5108.2	5293.9	5375.5	5353.0	5490.9	5482.5	5462.8
7.5°	4570.6	4545.3	4579.0	4697.2	4846.4	5060.3	5178.5	5175.7	5372.7	5513.4	5499.4
10°	4207.5	4204.7	4275.1	4368.0	4494.6	4719.8	4883.0	4964.6	5271.4	5485.3	5516.2
12.5°	3962.7	3951.4	4027.4	4103.4	4303.2	4477.7	4686.0	4725.4	5077.2	5386.8	5437.4
15°	3802.3	3827.6	3833.2	3979.6	4106.2	4337.0	4500.2	4581.9	4987.1	5308.0	5502.2
17.5°	3774.1	3807.9	3810.7	3931.7	4066.8	4261.0	4404.5	4514.3	4911.1	5347.4	5505.0
20°	3830.4	3810.7	3827.6	3903.6	4035.9	4221.6	4429.9	4466.5	4885.8	5367.1	5535.9
22.5°	3990.8	3985.2	3943.0	4004.9	4097.8	4292.0	4489.0	4545.3	4959.0	5468.4	5561.3
25°	4168.1	4199.1	4159.7	4151.3	4216.0	4407.4	4669.1	4742.3	5203.8	5651.3	5640.1
27.5°	4500.2	4469.3	4469.3	4429.9	4413.0	4505.9	4863.3	4984.3	5476.8	5887.7	5730.1
30°	4818.3	4852.0	4826.7	4840.8	4728.2	4719.8	5139.1	5288.3	5960.9	6248.0	5921.5
32.5°	5322.0	5277.0	5319.2	5282.6	5133.5	4981.5	5513.4	5668.2	6546.3	6661.7	6208.6
35°	5741.4	5721.7	5901.8	5896.2	5654.1	5505.0	5910.3	6141.0	6954.4	7157.0	6546.3
37.5°	6338.0	6301.5	6506.9	6605.4	6388.7	6166.4	6478.8	6746.1	7334.3	7553.9	6892.5
40°	6951.6	7044.5	7320.3	7483.5	7252.7	6957.2	7173.9	7255.5	7587.6	7812.8	7128.9
42.5°	7728.4	7863.5	8144.9	8285.6	8265.9	7945.1	7880.3	7877.5	7770.6	7739.6	7303.4
45°	8474.2	8423.5	8856.9	9163.7	9411.4	9318.5	8561.4	8477.0	8060.5	7849.4	7348.4
47.5°	8800.7	8783.8	9079.3	9625.3	10469.6	10585.0	9552.1	9225.6	8550.2	8310.9	7593.3
50°	8378.5	8465.7	8758.4	9363.5	10658.2	11539.1	10767.9	10328.9	9121.5	8873.8	8173.0
52.5°	6999.4	7058.5	7337.2	8105.5	10016.5	12102.0	11933.1	11679.8	10171.3	9760.4	9183.4
54°	5755.5	5913.1	6065.1	6836.2	8873.8	11789.6	12572.0	12377.8	10855.2	10497.7	9819.5
55°	5012.5	5105.3	5215.1	5983.4	8083.0	11260.4	12498.8	12515.7	11313.9	10728.5	10247.3
57.5°	3661.5	3726.3	3613.7	3954.2	5550.0	9144.0	11432.1	11888.1	11933.1	11074.7	10509.0
60°	2797.5	2825.7	2699.0	2752.5	3450.5	6276.1	8842.9	9391.7	10765.1	9678.8	8902.0
62.5°	2169.9	2175.5	2172.7	2265.6	2378.2	3692.5	5530.3	6017.2	7421.6	6872.8	6045.3
65°	1598.6	1573.3	1618.3	1899.7	2029.2	2321.9	2912.9	3267.5	4033.0	3405.4	2434.5
67.5°	1035.7	1044.1	1089.2	1412.8	1739.3	1781.5	1792.8	1764.6	1767.4	973.8	610.7
70°	622.0	636.1	622.0	799.3	1244.0	1277.7	1168.0	1139.8	889.4	230.8	228.0
72.5°	368.7	349.0	312.4	343.4	517.9	619.2	557.3	554.4	349.0	135.1	135.1
75°	154.8	140.7	115.4	104.1	137.9	132.3	132.3	118.2	92.9	90.1	84.4
77.5°	31.0	31.0	22.5	25.3	33.8	39.4	47.8	47.8	56.3	56.3	53.5
80°	0.0	2.8	8.4	16.9	25.3	36.6	42.2	42.2	47.8	47.8	39.4
82.5°	0.0	2.8	8.4	16.9	22.5	33.8	42.2	42.2	47.8	50.7	42.2
85°	0.0	2.8	8.4	14.1	22.5	28.1	28.1	25.3	19.7	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°	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2
2.5°	5451.5	5448.7	5381.1	5271.4	5246.1	5153.2	5141.9	5085.6	5116.6	5012.5	5001.2
5°	5406.5	5372.7	5291.1	5220.7	5015.3	4868.9	4753.5	4612.8	4531.2	4545.3	4491.8
7.5°	5471.2	5384.0	5240.4	4995.6	4745.1	4489.0	4351.1	4064.0	3959.9	3805.1	3782.6
10°	5403.7	5338.9	5116.6	4711.3	4365.1	3996.5	3672.8	3354.8	3112.7	3008.6	2986.1
12.5°	5398.0	5285.5	4914.0	4463.7	3962.7	3433.6	2963.6	2566.7	2327.5	2192.4	2161.5
15°	5310.8	5175.7	4686.0	4080.9	3388.5	2730.0	2217.8	1835.0	1652.1	1573.3	1595.8
17.5°	5319.2	5116.6	4458.0	3675.6	2822.9	2003.9	1514.2	1317.1	1269.3	1289.0	1289.0
20°	5310.8	4984.3	4182.2	3208.4	2161.5	1390.3	1111.7	1041.3	1072.3	1134.2	1120.1
22.5°	5265.8	4922.4	3928.9	2715.9	1590.1	1030.1	892.2	895.0	942.8	1018.8	1035.7
25°	5299.5	4784.5	3608.1	2217.8	1159.5	821.8	774.0	793.7	844.3	900.6	911.9
27.5°	5274.2	4686.0	3273.2	1722.4	847.1	706.4	703.6	726.1	748.6	790.8	790.8
30°	5302.3	4595.9	2943.9	1280.6	698.0	647.3	636.1	652.9	675.5	683.9	681.1
32.5°	5406.5	4528.4	2563.9	956.9	616.4	591.0	591.0	591.0	588.2	599.5	602.3
35°	5634.4	4539.6	2229.0	740.2	562.9	543.2	534.7	523.5	517.9	523.5	526.3
37.5°	5882.1	4534.0	1882.8	630.4	523.5	506.6	486.9	470.0	467.2	472.8	464.4
40°	5991.9	4587.5	1562.0	565.7	486.9	467.2	436.2	422.2	425.0	430.6	425.0
42.5°	6141.0	4604.4	1353.7	515.0	453.1	422.2	402.5	385.6	382.8	391.2	388.4
45°	6138.2	4508.7	1134.2	486.9	422.2	388.4	363.1	349.0	349.0	354.6	357.4
47.5°	6318.3	4494.6	973.8	461.6	399.6	365.9	334.9	323.7	320.8	320.8	315.2
50°	6737.7	4691.6	850.0	433.4	371.5	340.5	315.2	301.1	289.9	284.3	281.4
52.5°	7556.7	5305.2	754.3	399.6	340.5	315.2	292.7	281.4	267.4	253.3	250.5
54°	8350.4	5938.4	748.6	371.5	315.2	298.3	278.6	273.0	256.1	236.4	230.8
55°	8707.8	6307.1	768.3	349.0	298.3	287.1	270.2	264.6	247.7	225.2	222.3
57.5°	9003.3	6450.6	757.1	289.9	270.2	267.4	253.3	244.9	225.2	194.2	188.6
60°	7247.1	4877.4	543.2	256.1	247.7	242.0	230.8	225.2	199.8	166.1	163.2
62.5°	4579.0	2806.0	346.2	225.2	216.7	208.3	194.2	188.6	166.1	132.3	123.8
65°	1950.4	1162.4	233.6	199.8	185.8	171.7	160.4	152.0	132.3	98.5	95.7
67.5°	506.6	413.7	194.2	174.5	154.8	135.1	126.6	112.6	90.1	67.5	64.7
70°	228.0	208.3	163.2	146.3	123.8	104.1	92.9	78.8	59.1	45.0	42.2
72.5°	135.1	132.3	123.8	109.8	92.9	78.8	67.5	53.5	39.4	25.3	25.3
75°	84.4	81.6	84.4	76.0	64.7	59.1	50.7	36.6	22.5	11.3	11.3
77.5°	50.7	50.7	50.7	47.8	45.0	45.0	36.6	22.5	11.3	2.8	2.8
80°	39.4	39.4	42.2	39.4	39.4	39.4	31.0	16.9	5.6	0.0	0.0
82.5°	39.4	42.2	47.8	45.0	39.4	33.8	28.1	16.9	5.6	0.0	0.0
85°	11.3	8.4	14.1	19.7	28.1	25.3	19.7	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)