

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: P530181

Luminaire Tested: **GALN-SA5B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530181
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-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 12227 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

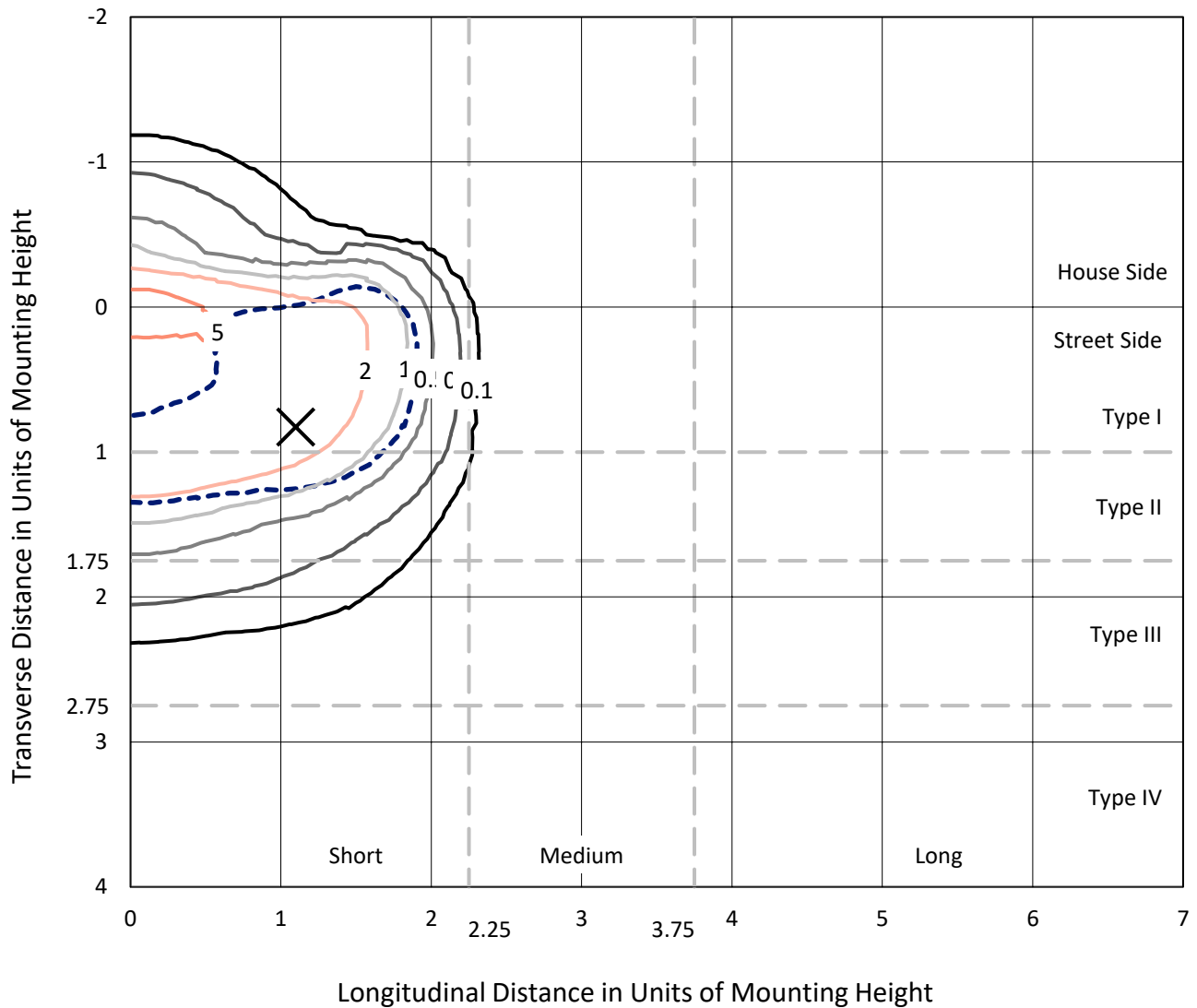
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

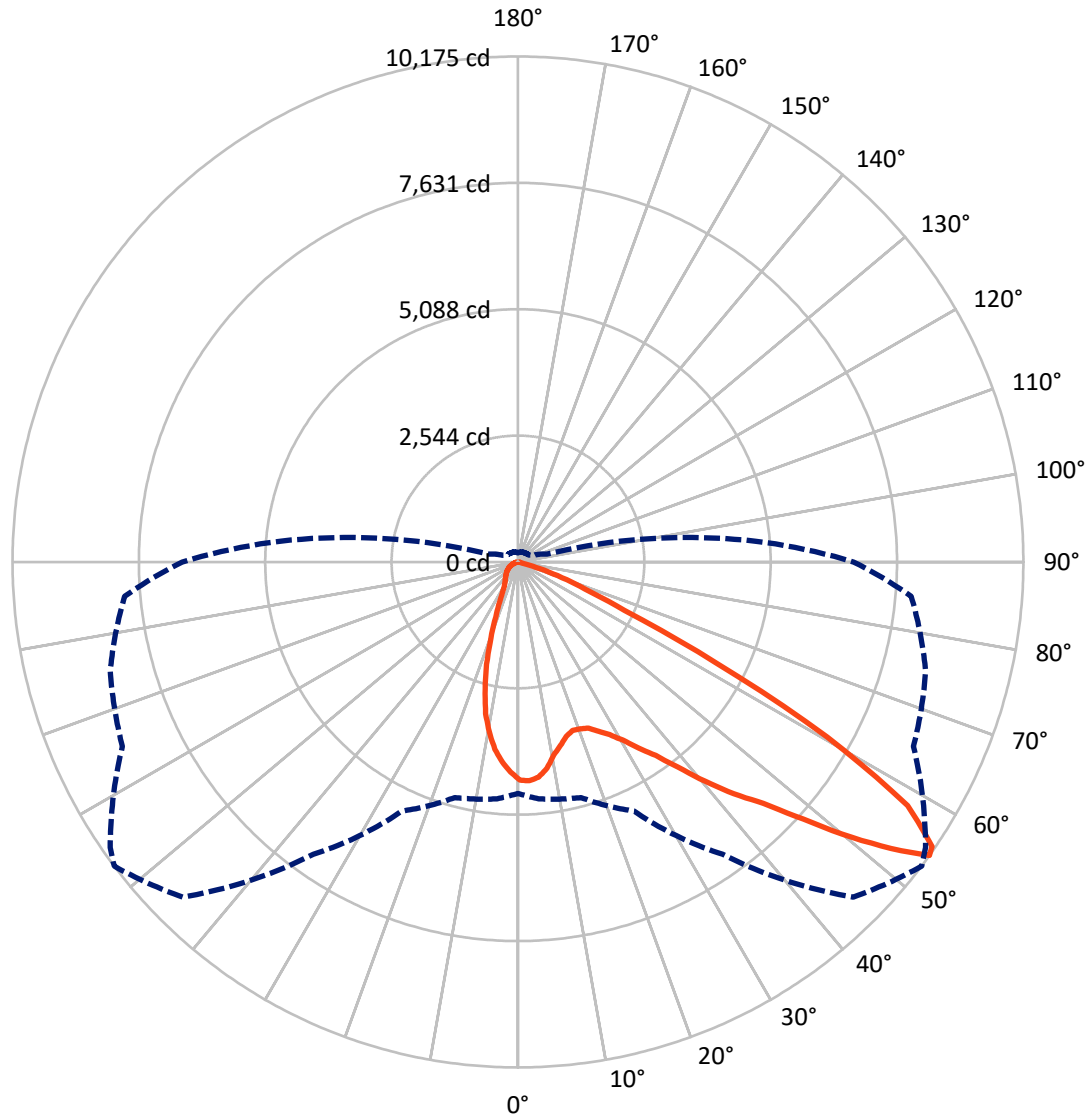
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2023.0	0.0	2023.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10204.0	0.0	10204.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	12227.0	0.0	12227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	3.1
10°-20°	863.9	7.1
20°-30°	1227.8	10.0
30°-40°	1894.8	15.5
40°-50°	2970.8	24.3
50°-60°	3451.0	28.2
60°-70°	1304.0	10.7
70°-80°	124.0	1.0
80°-90°	14.0	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°	12227.0	100.0
0°-180°	12227.0	100.0

Coefficient of Utilization



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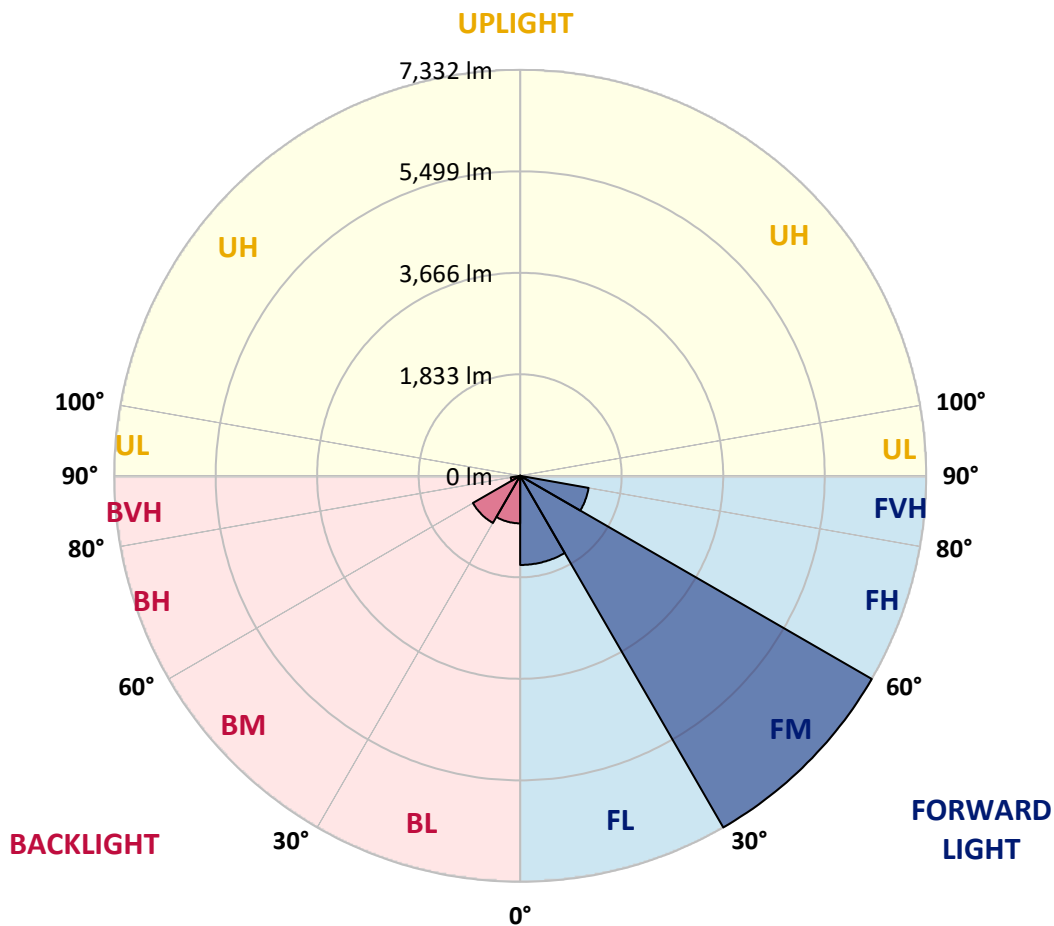
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.0	13.2			
FM (30°-60°)	7332.1	60.0			
FH (60°-80°)	1254.7	10.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	858.5	7.0	B2/1000		
BM (30°-60°)	984.5	8.1	B1/1000		
BH (60°-80°)	173.3	1.4	B1/500		G1/500
BVH (80°-90°)	6.8	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°	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7
2.5°	4369.0	4330.2	4369.0	4373.5	4400.8	4425.9	4410.0	4446.4	4425.9	4403.1	4396.3
5°	4015.9	4068.3	4070.6	4152.6	4134.3	4284.7	4350.7	4332.5	4444.1	4437.3	4421.3
7.5°	3699.3	3678.8	3706.1	3801.8	3922.5	4095.6	4191.3	4189.0	4348.5	4462.3	4451.0
10°	3405.4	3403.1	3460.1	3535.3	3637.8	3820.0	3952.1	4018.2	4266.4	4439.6	4464.6
12.5°	3207.2	3198.1	3259.6	3321.1	3482.9	3624.1	3792.7	3824.5	4109.3	4359.8	4400.8
15°	3077.4	3097.9	3102.5	3220.9	3323.4	3510.2	3642.3	3708.4	4036.4	4296.1	4453.2
17.5°	3054.6	3082.0	3084.2	3182.2	3291.5	3448.7	3564.9	3653.7	3974.9	4328.0	4455.5
20°	3100.2	3084.2	3097.9	3159.4	3266.5	3416.8	3585.4	3615.0	3954.4	4343.9	4480.6
22.5°	3230.0	3225.5	3191.3	3241.4	3316.6	3473.8	3633.2	3678.8	4013.6	4425.9	4501.1
25°	3373.5	3398.6	3366.7	3359.9	3412.2	3567.1	3779.0	3838.2	4211.8	4574.0	4564.9
27.5°	3642.3	3617.3	3617.3	3585.4	3571.7	3646.9	3936.2	4034.1	4432.7	4765.3	4637.7
30°	3899.7	3927.0	3906.5	3917.9	3826.8	3820.0	4159.4	4280.1	4824.5	5056.9	4792.6
32.5°	4307.5	4271.0	4305.2	4275.6	4154.8	4031.8	4462.3	4587.6	5298.3	5391.7	5025.0
35°	4646.9	4630.9	4776.7	4772.1	4576.2	4455.5	4783.5	4970.3	5628.6	5792.6	5298.3
37.5°	5129.8	5100.1	5266.4	5346.2	5170.8	4990.8	5243.7	5460.1	5936.1	6113.8	5578.5
40°	5626.3	5701.5	5924.7	6056.9	5870.1	5630.9	5806.3	5872.3	6141.1	6323.4	5769.8
42.5°	6255.0	6364.4	6592.2	6706.0	6690.1	6430.4	6378.0	6375.8	6289.2	6264.1	5911.1
45°	6858.7	6817.7	7168.5	7416.7	7617.2	7542.0	6929.3	6860.9	6523.8	6353.0	5947.5
47.5°	7122.9	7109.2	7348.4	7790.3	8473.7	8567.1	7731.1	7466.9	6920.2	6726.5	6145.7
50°	6781.2	6851.8	7088.7	7578.5	8626.3	9339.3	8715.1	8359.8	7382.6	7182.1	6614.9
52.5°	5665.1	5712.9	5938.4	6560.3	8106.9	9794.8	9658.2	9453.2	8232.2	7899.7	7432.7
54°	4658.2	4785.8	4908.8	5532.9	7182.1	9542.0	10175.2	10018.1	8785.7	8496.5	7947.5
55°	4056.9	4132.1	4220.9	4842.8	6542.0	9113.8	10116.0	10129.7	9157.0	8683.2	8293.7
57.5°	2963.5	3015.9	2924.8	3200.4	4492.0	7400.8	9252.7	9621.7	9658.2	8963.4	8505.6
60°	2264.2	2287.0	2184.5	2227.8	2792.7	5079.6	7157.1	7601.3	8712.9	7833.6	7204.9
62.5°	1756.2	1760.8	1758.5	1833.7	1924.8	2988.6	4476.0	4870.1	6006.7	5562.6	4892.9
65°	1293.8	1273.3	1309.8	1537.6	1642.3	1879.2	2357.6	2644.6	3264.2	2756.2	1970.4
67.5°	838.3	845.1	881.5	1143.5	1407.7	1441.9	1451.0	1428.2	1430.5	788.1	494.3
70°	503.4	514.8	503.4	646.9	1006.8	1034.2	945.3	922.5	719.8	186.8	184.5
72.5°	298.4	282.5	252.8	277.9	419.1	501.1	451.0	448.7	282.5	109.3	109.3
75°	125.3	113.9	93.4	84.3	111.6	107.1	107.1	95.7	75.2	72.9	68.3
77.5°	25.1	25.1	18.2	20.5	27.3	31.9	38.7	38.7	45.6	45.6	43.3
80°	0.0	2.3	6.8	13.7	20.5	29.6	34.2	34.2	38.7	38.7	31.9
82.5°	0.0	2.3	6.8	13.7	18.2	27.3	34.2	34.2	38.7	41.0	34.2
85°	0.0	2.3	6.8	11.4	18.2	22.8	22.8	20.5	15.9	13.7	9.1
87.5°	0.0	0.0	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7	4391.7
2.5°	4412.2	4410.0	4355.3	4266.4	4245.9	4170.8	4161.7	4116.1	4141.2	4056.9	4047.8
5°	4375.8	4348.5	4282.4	4225.4	4059.2	3940.7	3847.3	3733.4	3667.4	3678.8	3635.5
7.5°	4428.2	4357.6	4241.4	4043.2	3840.5	3633.2	3521.6	3289.2	3205.0	3079.7	3061.5
10°	4373.5	4321.1	4141.2	3813.2	3533.0	3234.6	2972.6	2715.2	2519.3	2435.0	2416.8
12.5°	4369.0	4277.8	3977.2	3612.7	3207.2	2779.0	2398.6	2077.4	1883.8	1774.5	1749.4
15°	4298.3	4189.0	3792.7	3302.9	2742.6	2209.5	1795.0	1485.2	1337.1	1273.3	1291.6
17.5°	4305.2	4141.2	3608.1	2974.9	2284.7	1621.8	1225.5	1066.0	1027.3	1043.3	1043.3
20°	4298.3	4034.1	3384.9	2596.8	1749.4	1125.3	899.8	842.8	867.9	918.0	906.6
22.5°	4261.9	3984.0	3179.9	2198.1	1287.0	833.7	722.1	724.4	763.1	824.6	838.3
25°	4289.2	3872.4	2920.2	1795.0	938.5	665.1	626.4	642.4	683.4	728.9	738.0
27.5°	4268.7	3792.7	2649.2	1394.1	685.6	571.7	569.5	587.7	605.9	640.1	640.1
30°	4291.5	3719.8	2382.7	1036.4	564.9	523.9	514.8	528.5	546.7	553.5	551.2
32.5°	4375.8	3665.1	2075.1	774.5	498.9	478.4	478.4	478.4	476.1	485.2	487.5
35°	4560.3	3674.2	1804.1	599.1	455.6	439.6	432.8	423.7	419.1	423.7	426.0
37.5°	4760.7	3669.6	1523.9	510.2	423.7	410.0	394.1	380.4	378.1	382.7	375.8
40°	4849.6	3712.9	1264.2	457.9	394.1	378.1	353.1	341.7	344.0	348.5	344.0
42.5°	4970.3	3726.6	1095.7	416.9	366.7	341.7	325.7	312.1	309.8	316.6	314.3
45°	4968.0	3649.1	918.0	394.1	341.7	314.3	293.8	282.5	282.5	287.0	289.3
47.5°	5113.8	3637.8	788.1	373.6	323.5	296.1	271.1	262.0	259.7	259.7	255.1
50°	5453.2	3797.2	687.9	350.8	300.7	275.6	255.1	243.7	234.6	230.1	227.8
52.5°	6116.1	4293.8	610.5	323.5	275.6	255.1	236.9	227.8	216.4	205.0	202.7
54°	6758.4	4806.3	605.9	300.7	255.1	241.5	225.5	221.0	207.3	191.3	186.8
55°	7047.7	5104.7	621.9	282.5	241.5	232.3	218.7	214.1	200.5	182.2	180.0
57.5°	7286.9	5220.9	612.7	234.6	218.7	216.4	205.0	198.2	182.2	157.2	152.6
60°	5865.5	3947.5	439.6	207.3	200.5	195.9	186.8	182.2	161.7	134.4	132.1
62.5°	3706.1	2271.0	280.2	182.2	175.4	168.6	157.2	152.6	134.4	107.1	100.2
65°	1578.6	940.8	189.1	161.7	150.3	139.0	129.8	123.0	107.1	79.7	77.4
67.5°	410.0	334.8	157.2	141.2	125.3	109.3	102.5	91.1	72.9	54.7	52.4
70°	184.5	168.6	132.1	118.4	100.2	84.3	75.2	63.8	47.8	36.4	34.2
72.5°	109.3	107.1	100.2	88.8	75.2	63.8	54.7	43.3	31.9	20.5	20.5
75°	68.3	66.1	68.3	61.5	52.4	47.8	41.0	29.6	18.2	9.1	9.1
77.5°	41.0	41.0	41.0	38.7	36.4	36.4	29.6	18.2	9.1	2.3	2.3
80°	31.9	31.9	34.2	31.9	31.9	31.9	25.1	13.7	4.6	0.0	0.0
82.5°	31.9	34.2	38.7	36.4	31.9	27.3	22.8	13.7	4.6	0.0	0.0
85°	9.1	6.8	11.4	15.9	22.8	20.5	15.9	11.4	4.6	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	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)