

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: P531871

Luminaire Tested: **GALN-SA7B-722-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531871  
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-SA7B-722-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 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: 17006 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

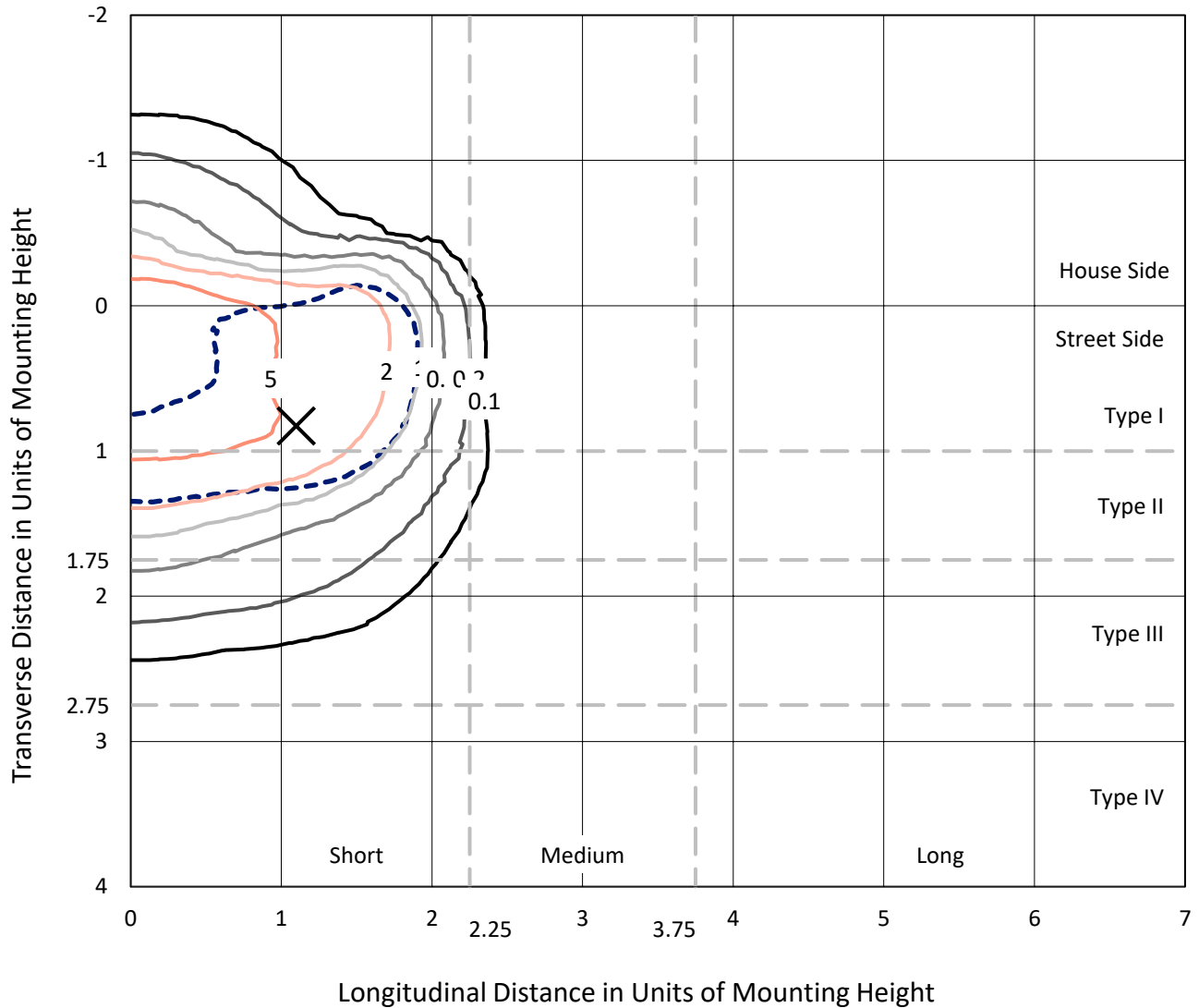
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

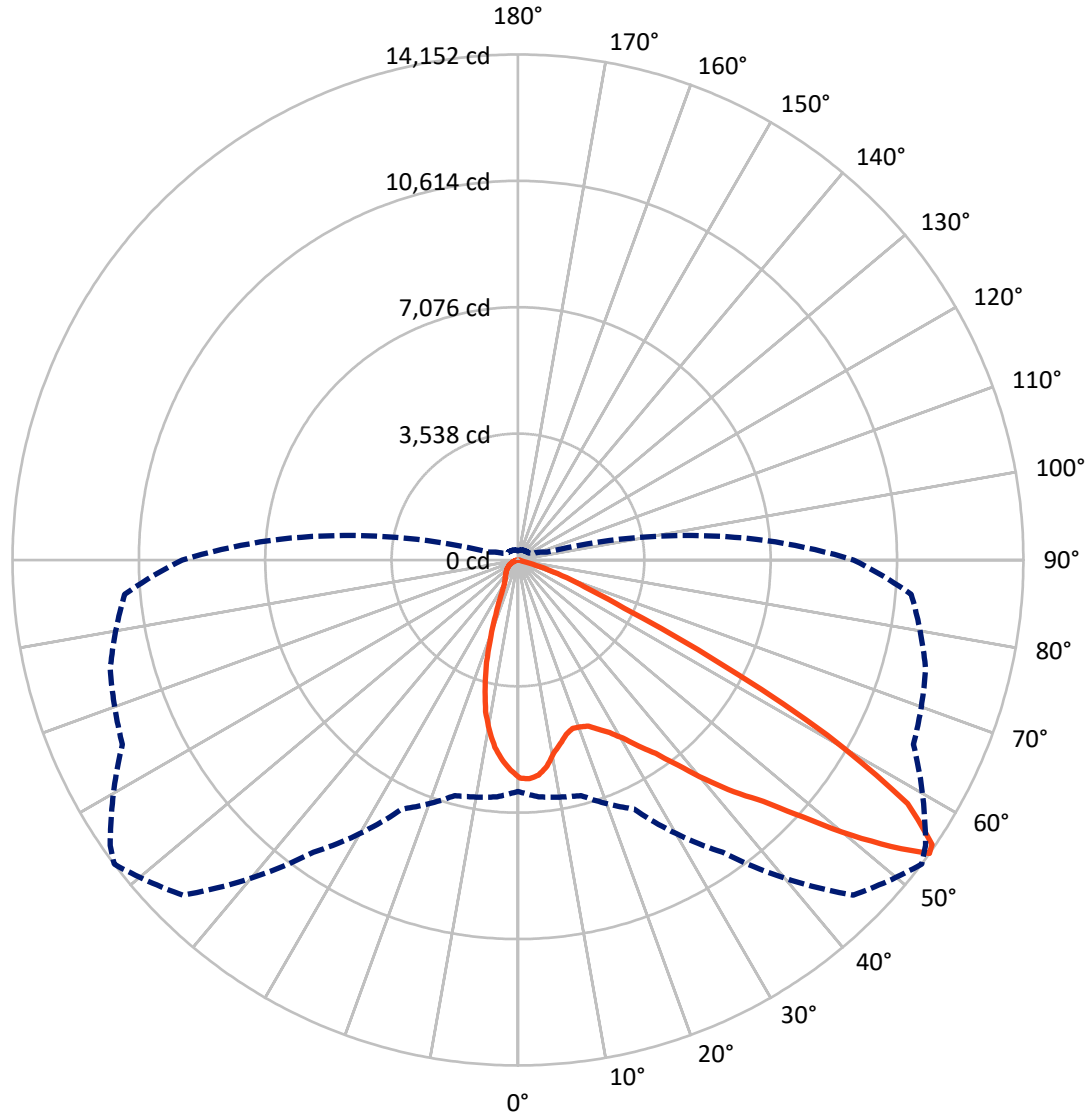
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	2813.7	0.0	2813.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14192.3	0.0	14192.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17006.0	0.0	17006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.1	3.1
10°-20°	1201.5	7.1
20°-30°	1707.6	10.0
30°-40°	2635.3	15.5
40°-50°	4132.0	24.3
50°-60°	4799.9	28.2
60°-70°	1813.7	10.7
70°-80°	172.5	1.0
80°-90°	19.4	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°	17006.0	100.0
0°-180°	17006.0	100.0

**Coefficient of Utilization**



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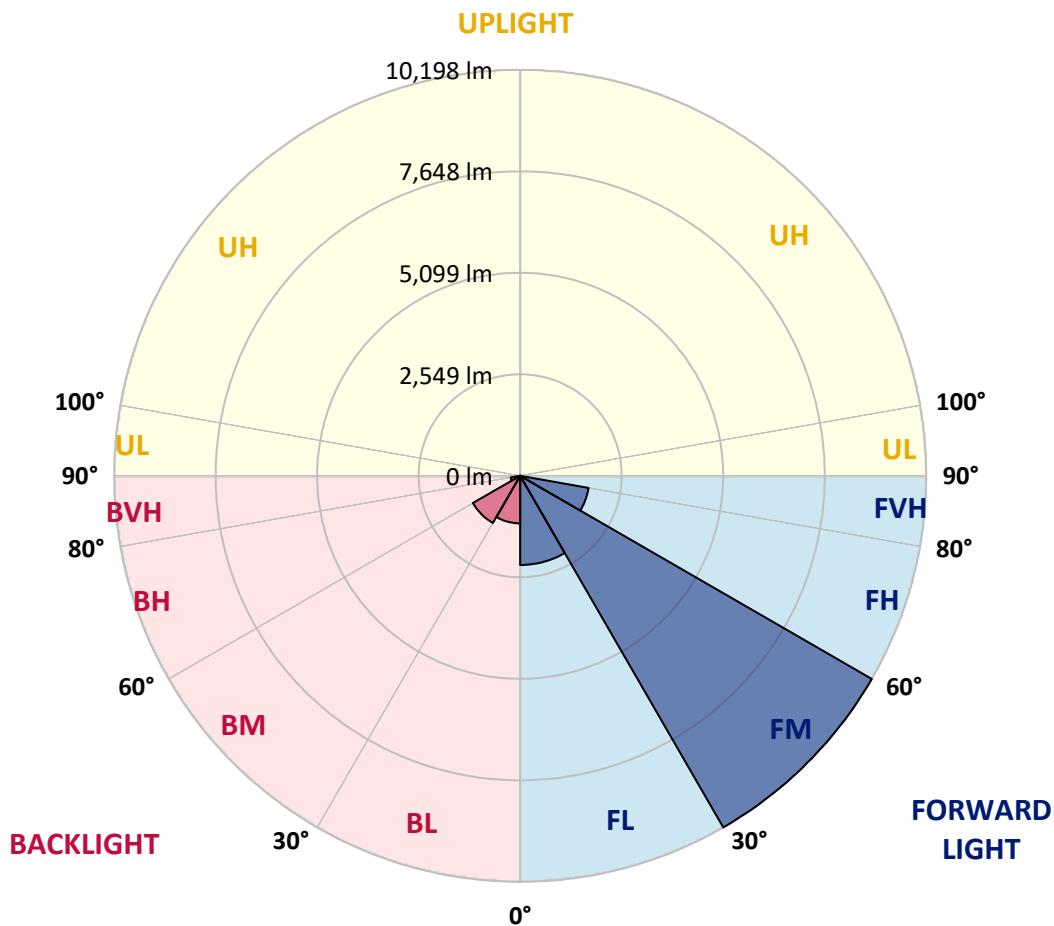
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2239.2	13.2			
FM (30°-60°)	10198.0	60.0			
FH (60°-80°)	1745.1	10.3			G1/1800
FVH (80°-90°)	10.0	0.1			G1/100
BL (0°-30°)	1194.0	7.0	B3/2500		
BM (30°-60°)	1369.2	8.1	B2/2500		
BH (60°-80°)	241.1	1.4	B1/500		G1/500
BVH (80°-90°)	9.4	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°	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3
2.5°	6076.6	6022.7	6076.6	6082.9	6120.9	6155.8	6133.6	6184.3	6155.8	6124.1	6114.6
5°	5585.5	5658.4	5661.6	5775.6	5750.3	5959.4	6051.2	6025.9	6181.1	6171.6	6149.5
7.5°	5145.1	5116.6	5154.6	5287.7	5455.6	5696.4	5829.5	5826.3	6048.1	6206.5	6190.6
10°	4736.4	4733.3	4812.5	4917.0	5059.6	5313.1	5496.8	5588.7	5934.0	6174.8	6209.7
12.5°	4460.8	4448.1	4533.7	4619.2	4844.2	5040.6	5275.0	5319.4	5715.4	6063.9	6120.9
15°	4280.2	4308.7	4315.1	4479.8	4622.4	4882.2	5065.9	5157.8	5614.0	5975.2	6193.8
17.5°	4248.5	4286.6	4289.7	4426.0	4578.0	4796.6	4958.2	5081.8	5528.5	6019.6	6197.0
20°	4311.9	4289.7	4308.7	4394.3	4543.2	4752.3	4986.7	5027.9	5500.0	6041.7	6231.8
22.5°	4492.5	4486.2	4438.6	4508.3	4612.9	4831.5	5053.3	5116.6	5582.3	6155.8	6260.3
25°	4692.1	4726.9	4682.6	4673.1	4745.9	4961.4	5256.0	5338.4	5858.0	6361.7	6349.1
27.5°	5065.9	5031.1	5031.1	4986.7	4967.7	5072.3	5474.6	5610.9	6165.3	6627.9	6450.4
30°	5423.9	5462.0	5433.4	5449.3	5322.6	5313.1	5785.1	5953.0	6710.2	7033.4	6665.9
32.5°	5991.0	5940.4	5987.9	5946.7	5778.8	5607.7	6206.5	6380.7	7369.2	7499.1	6989.0
35°	6463.1	6440.9	6643.7	6637.4	6364.9	6197.0	6653.2	6913.0	7828.6	8056.7	7369.2
37.5°	7134.8	7093.6	7324.9	7435.7	7191.8	6941.5	7293.2	7594.1	8256.3	8503.4	7758.9
40°	7825.4	7930.0	8240.5	8424.2	8164.4	7831.8	8075.7	8167.6	8541.4	8794.9	8025.0
42.5°	8699.8	8851.9	9168.7	9327.1	9305.0	8943.8	8870.9	8867.8	8747.4	8712.5	8221.5
45°	9539.4	9482.4	9970.3	10315.6	10594.4	10489.9	9637.6	9542.6	9073.7	8836.1	8272.1
47.5°	9906.9	9887.9	10220.6	10835.2	11785.7	11915.6	10752.8	10385.3	9625.0	9355.7	8547.8
50°	9431.7	9529.9	9859.4	10540.6	11997.9	12989.6	12121.5	11627.3	10268.1	9989.3	9200.4
52.5°	7879.3	7945.8	8259.5	9124.4	11275.6	13623.2	13433.1	13148.0	11449.8	10987.3	10337.8
54°	6478.9	6656.4	6827.4	7695.5	9989.3	13271.5	14152.3	13933.7	12219.7	11817.3	11053.8
55°	5642.5	5747.1	5870.7	6735.6	9099.0	12675.9	14069.9	14088.9	12736.1	12077.1	11535.4
57.5°	4121.8	4194.7	4068.0	4451.3	6247.7	10293.4	12869.2	13382.4	13433.1	12466.8	11830.0
60°	3149.2	3180.9	3038.3	3098.5	3884.2	7065.1	9954.4	10572.2	12118.3	10895.4	10021.0
62.5°	2442.7	2449.0	2445.8	2550.4	2677.1	4156.7	6225.5	6773.6	8354.5	7736.7	6805.3
65°	1799.5	1771.0	1821.7	2138.5	2284.3	2613.8	3279.1	3678.3	4540.0	3833.5	2740.5
67.5°	1165.9	1175.4	1226.1	1590.4	1957.9	2005.5	2018.1	1986.5	1989.6	1096.2	687.5
70°	700.2	716.0	700.2	899.8	1400.3	1438.4	1314.8	1283.1	1001.1	259.8	256.6
72.5°	415.0	392.9	351.7	386.5	582.9	697.0	627.3	624.1	392.9	152.1	152.1
75°	174.3	158.4	129.9	117.2	155.2	148.9	148.9	133.1	104.6	101.4	95.0
77.5°	34.9	34.9	25.3	28.5	38.0	44.4	53.9	53.9	63.4	63.4	60.2
80°	0.0	3.2	9.5	19.0	28.5	41.2	47.5	47.5	53.9	53.9	44.4
82.5°	0.0	3.2	9.5	19.0	25.3	38.0	47.5	47.5	53.9	57.0	47.5
85°	0.0	3.2	9.5	15.8	25.3	31.7	31.7	28.5	22.2	19.0	12.7
87.5°	0.0	0.0	3.2	6.3	3.2	6.3	6.3	6.3	6.3	6.3	6.3
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°	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3	6108.3
2.5°	6136.8	6133.6	6057.6	5934.0	5905.5	5801.0	5788.3	5724.9	5759.8	5642.5	5629.9
5°	6086.1	6048.1	5956.2	5877.0	5645.7	5481.0	5351.1	5192.7	5100.8	5116.6	5056.4
7.5°	6159.0	6060.7	5899.2	5623.5	5341.6	5053.3	4898.0	4574.9	4457.6	4283.4	4258.0
10°	6082.9	6010.1	5759.8	5303.5	4913.9	4498.8	4134.5	3776.5	3504.0	3386.8	3361.4
12.5°	6076.6	5949.9	5531.7	5024.7	4460.8	3865.2	3336.1	2889.4	2620.1	2468.0	2433.2
15°	5978.4	5826.3	5275.0	4593.9	3814.5	3073.1	2496.5	2065.7	1859.7	1771.0	1796.4
17.5°	5987.9	5759.8	5018.4	4137.7	3177.7	2255.8	1704.5	1482.7	1428.9	1451.0	1451.0
20°	5978.4	5610.9	4707.9	3611.7	2433.2	1565.1	1251.4	1172.2	1207.1	1276.8	1260.9
22.5°	5927.7	5541.2	4422.8	3057.3	1790.0	1159.6	1004.3	1007.5	1061.3	1146.9	1165.9
25°	5965.7	5385.9	4061.6	2496.5	1305.3	925.1	871.3	893.4	950.5	1013.8	1026.5
27.5°	5937.2	5275.0	3684.6	1938.9	953.6	795.2	792.0	817.4	842.7	890.3	890.3
30°	5968.9	5173.7	3313.9	1441.5	785.7	728.7	716.0	735.0	760.4	769.9	766.7
32.5°	6086.1	5097.6	2886.2	1077.2	693.8	665.3	665.3	665.3	662.2	674.8	678.0
35°	6342.7	5110.3	2509.2	833.2	633.6	611.5	602.0	589.3	582.9	589.3	592.5
37.5°	6621.5	5104.0	2119.5	709.7	589.3	570.3	548.1	529.1	525.9	532.3	522.8
40°	6745.1	5164.1	1758.3	636.8	548.1	525.9	491.1	475.2	478.4	484.7	478.4
42.5°	6913.0	5183.2	1523.9	579.8	510.1	475.2	453.1	434.0	430.9	440.4	437.2
45°	6909.8	5075.4	1276.8	548.1	475.2	437.2	408.7	392.9	392.9	399.2	402.4
47.5°	7112.6	5059.6	1096.2	519.6	449.9	411.9	377.0	364.3	361.2	361.2	354.8
50°	7584.6	5281.4	956.8	487.9	418.2	383.4	354.8	339.0	326.3	320.0	316.8
52.5°	8506.6	5972.0	849.1	449.9	383.4	354.8	329.5	316.8	301.0	285.1	282.0
54°	9400.0	6684.9	842.7	418.2	354.8	335.8	313.7	307.3	288.3	266.1	259.8
55°	9802.4	7099.9	864.9	392.9	335.8	323.2	304.1	297.8	278.8	253.5	250.3
57.5°	10135.0	7261.5	852.2	326.3	304.1	301.0	285.1	275.6	253.5	218.6	212.3
60°	8158.1	5490.5	611.5	288.3	278.8	272.5	259.8	253.5	224.9	186.9	183.8
62.5°	5154.6	3158.7	389.7	253.5	244.0	234.4	218.6	212.3	186.9	148.9	139.4
65°	2195.6	1308.5	263.0	224.9	209.1	193.3	180.6	171.1	148.9	110.9	107.7
67.5°	570.3	465.7	218.6	196.4	174.3	152.1	142.6	126.7	101.4	76.0	72.9
70°	256.6	234.4	183.8	164.7	139.4	117.2	104.6	88.7	66.5	50.7	47.5
72.5°	152.1	148.9	139.4	123.6	104.6	88.7	76.0	60.2	44.4	28.5	28.5
75°	95.0	91.9	95.0	85.5	72.9	66.5	57.0	41.2	25.3	12.7	12.7
77.5°	57.0	57.0	57.0	53.9	50.7	50.7	41.2	25.3	12.7	3.2	3.2
80°	44.4	44.4	47.5	44.4	44.4	44.4	34.9	19.0	6.3	0.0	0.0
82.5°	44.4	47.5	53.9	50.7	44.4	38.0	31.7	19.0	6.3	0.0	0.0
85°	12.7	9.5	15.8	22.2	31.7	28.5	22.2	15.8	6.3	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	3.2	3.2	3.2	3.2	3.2	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)