

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: P452281

Luminaire Tested: **GALN-SA3B-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11639 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

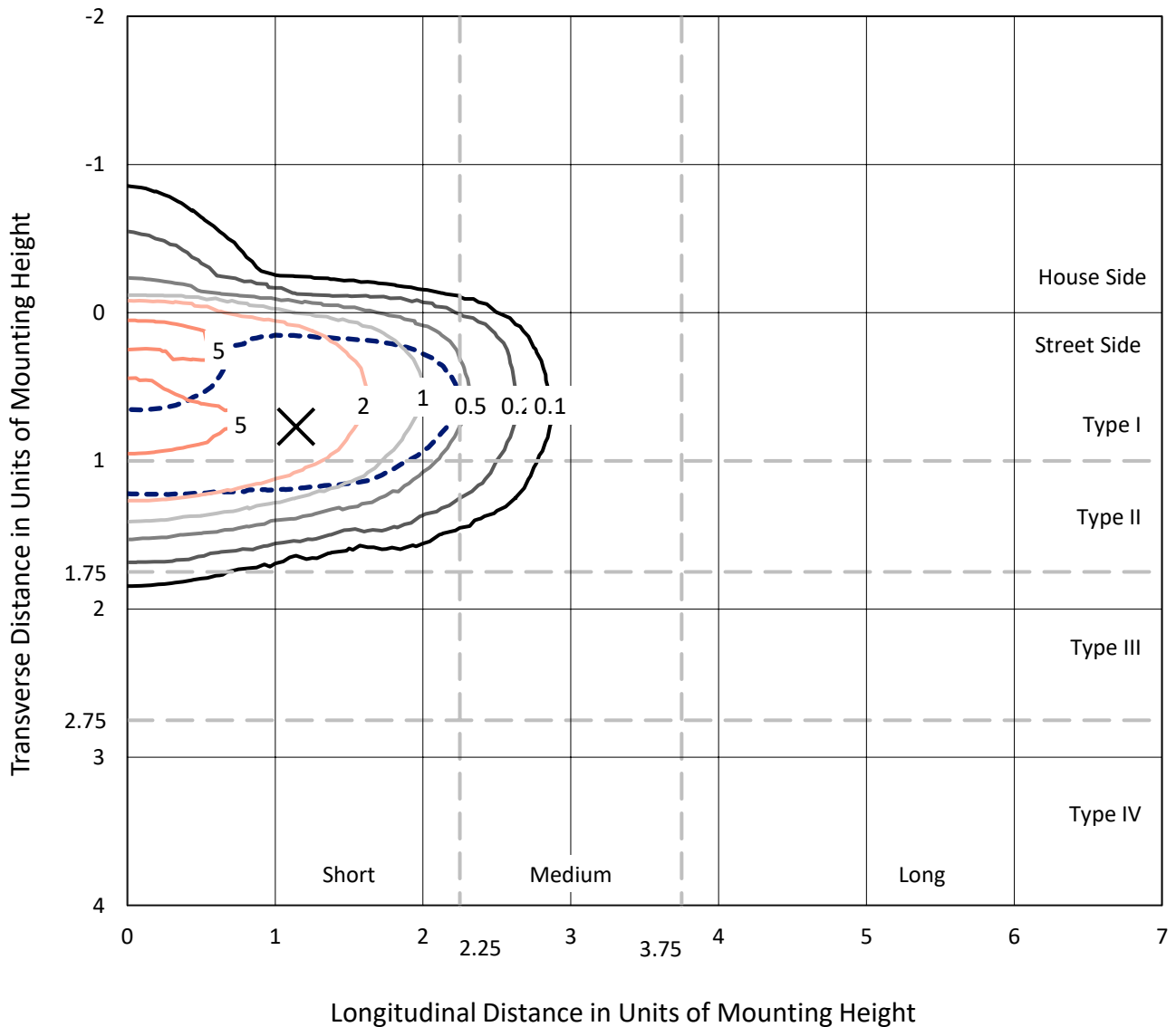
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

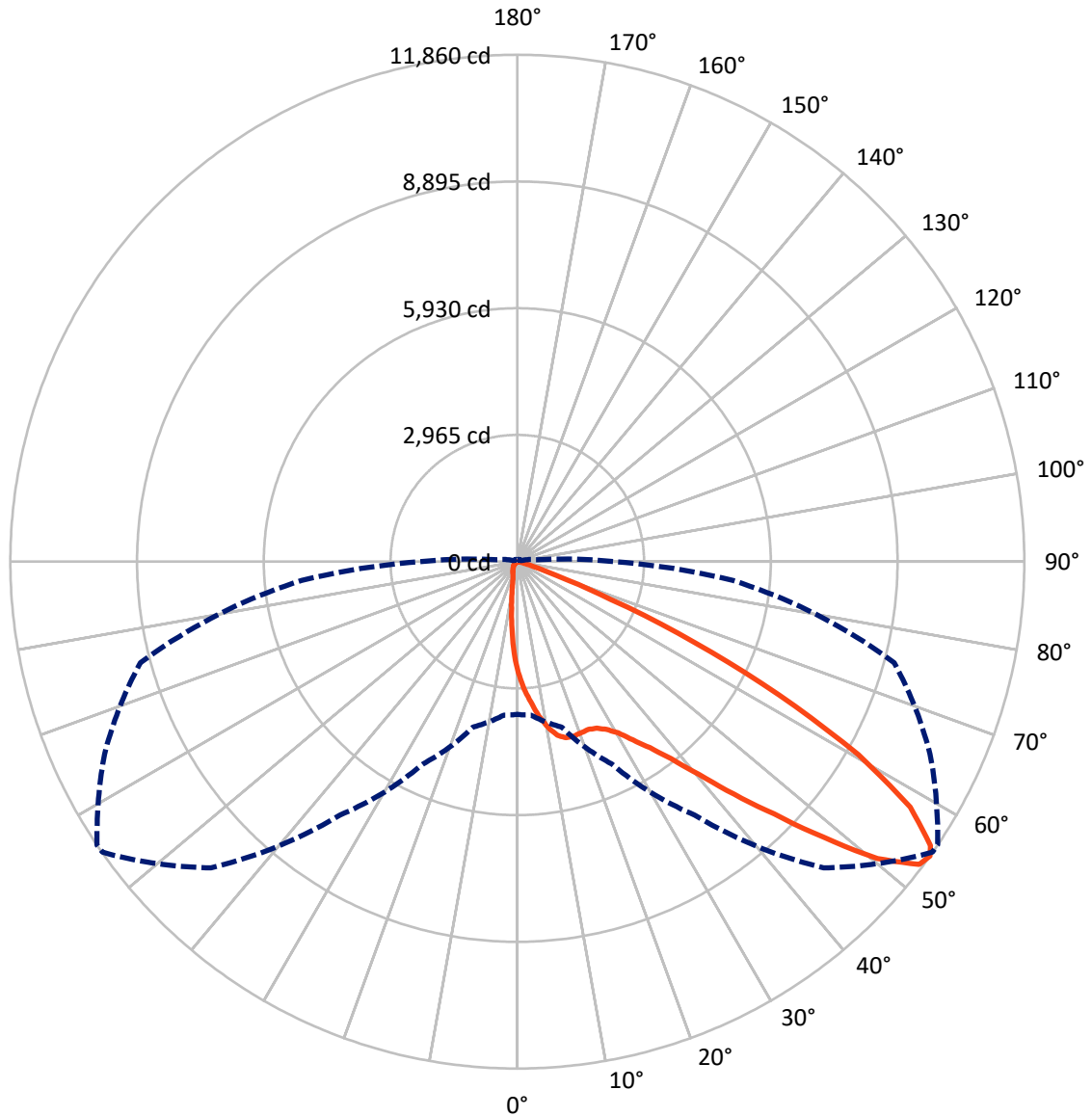
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	550.4	0.0	550.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	11088.6	0.0	11088.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	11639.0	0.0	11639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.5	2.0
10°-20°	617.7	5.3
20°-30°	1069.8	9.2
30°-40°	1846.7	15.9
40°-50°	3143.1	27.0
50°-60°	3110.5	26.7
60°-70°	1419.7	12.2
70°-80°	182.3	1.6
80°-90°	20.5	0.2
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°	11639.0	100.0
0°-180°	11639.0	100.0

**Coefficient of Utilization**



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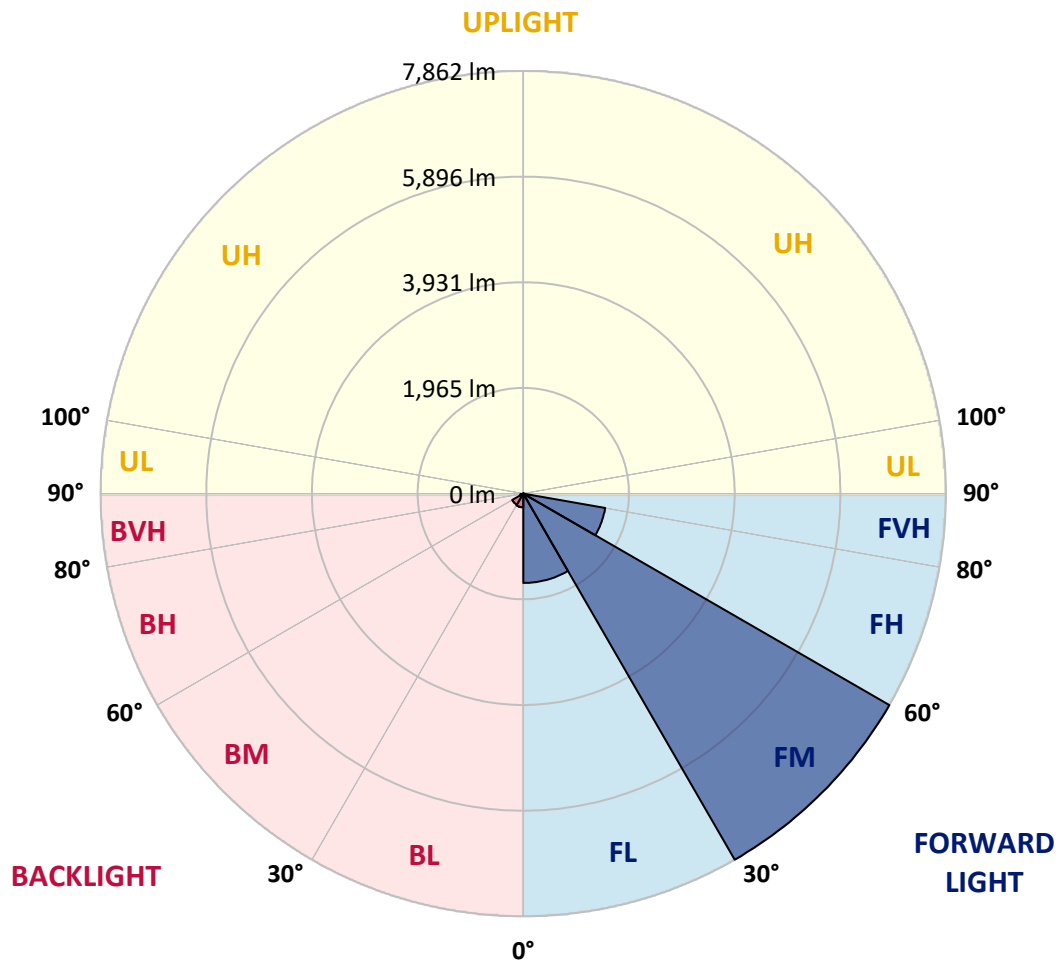
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.5	14.3			
FM (30°-60°)	7861.8	67.5			
FH (60°-80°)	1546.9	13.3			G1/1800
FVH (80°-90°)	18.3	0.2			G1/100
BL (0°-30°)	254.5	2.2	B1/500		
BM (30°-60°)	238.5	2.0	B1/1000		
BH (60°-80°)	55.1	0.5	B0/110		G0/110
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9
2.5°	3286.3	3263.5	3232.1	3207.8	3150.5	3068.0	2980.8	2980.8	2896.8	2779.8	2660.5
5°	3790.4	3775.5	3744.9	3682.1	3617.7	3502.2	3327.1	3296.5	3146.5	2934.5	2711.5
7.5°	3995.4	4002.5	4004.0	3987.5	3956.9	3843.0	3669.5	3648.3	3408.8	3124.5	2778.2
10°	3799.1	3833.6	3867.4	3935.7	4032.3	4059.8	3961.6	3939.6	3704.1	3316.9	2850.5
12.5°	3507.0	3525.8	3544.6	3652.2	3846.2	4068.4	4171.3	4170.5	3971.0	3508.5	2942.4
15°	3371.1	3387.6	3389.2	3437.1	3605.1	3928.6	4260.8	4272.6	4231.7	3744.9	3041.3
17.5°	3399.4	3412.7	3401.7	3413.5	3501.5	3774.7	4250.6	4289.9	4443.0	3971.8	3130.8
20°	3583.9	3609.8	3567.4	3534.4	3561.1	3733.9	4216.0	4271.0	4592.2	4193.3	3212.5
22.5°	3915.3	3929.4	3876.0	3785.7	3738.6	3819.5	4206.6	4260.8	4719.4	4374.7	3259.6
25°	4283.6	4278.9	4220.0	4118.7	4019.7	3992.2	4268.7	4317.3	4824.6	4538.0	3273.7
27.5°	4651.9	4666.0	4567.1	4441.4	4322.8	4251.4	4407.6	4443.8	4943.2	4724.1	3291.0
30°	5079.8	5057.1	4959.7	4816.0	4680.1	4580.4	4631.4	4641.7	5106.5	4970.7	3336.6
32.5°	5636.6	5573.8	5464.6	5213.3	5115.9	4947.1	4959.7	4972.2	5305.2	5214.9	3391.5
35°	6392.0	6388.9	6175.3	5836.8	5599.7	5390.0	5335.0	5345.2	5605.9	5577.7	3513.2
37.5°	7301.3	7313.9	7070.5	6729.7	6293.0	5960.1	5847.0	5848.6	6063.0	6078.7	3698.6
40°	8041.8	8074.8	7929.5	7699.4	7268.3	6747.7	6557.7	6540.4	6705.3	6685.7	3963.2
42.5°	8360.6	8391.3	8445.4	8525.5	8288.4	7858.9	7410.5	7434.0	7484.3	7346.9	4260.0
45°	8204.4	8253.1	8465.9	8960.6	9183.6	9039.1	8504.3	8421.9	8209.1	8065.4	4558.4
47.5°	7553.4	7672.0	8027.7	8851.4	9632.0	10120.4	9738.8	9629.6	8934.7	8589.9	4748.4
50°	6483.1	6490.1	6985.6	8038.7	9399.5	10802.8	10999.1	10917.4	9610.8	8884.4	4844.3
52.5°	4699.8	4854.5	5308.3	6527.8	8392.8	10699.1	11802.4	11768.6	10308.1	9035.2	4982.5
54°	3572.9	3602.8	4006.4	5216.5	7236.1	10129.8	11851.9	11859.7	10654.4	9126.3	5064.1
55°	2929.0	2857.6	3281.6	4443.8	6447.0	9626.5	11690.1	11727.8	10809.8	9173.4	5124.6
57.5°	1388.3	1389.1	1713.4	2344.0	4037.8	7474.9	10701.5	10835.0	10827.1	9254.3	5310.7
60°	702.8	707.5	779.0	1082.1	1994.6	4969.1	8848.3	9166.3	9994.0	9266.0	5371.9
62.5°	491.6	486.1	474.3	520.6	839.4	2525.4	6587.5	6863.9	8491.0	8817.7	5177.2
65°	420.9	409.1	376.1	369.1	424.0	1005.9	4103.0	4553.7	6483.1	7635.1	4622.8
67.5°	359.6	354.9	325.1	307.0	300.0	438.2	2117.1	2354.2	4431.2	5488.2	3501.5
70°	305.5	303.1	285.0	262.3	242.6	262.3	785.3	972.9	2469.6	2954.9	1652.2
72.5°	248.1	250.5	253.6	224.6	204.2	186.1	335.3	390.3	1033.4	1056.2	577.9
75°	217.5	215.2	215.2	195.5	170.4	138.2	184.5	198.7	316.5	293.7	134.3
77.5°	153.1	147.6	172.8	161.0	142.1	98.2	105.2	111.5	131.1	112.3	62.8
80°	106.0	106.0	110.7	144.5	128.0	71.5	64.4	69.1	77.7	66.7	36.1
82.5°	59.7	61.3	72.2	77.0	74.6	47.9	42.4	43.2	51.8	45.5	22.8
85°	7.1	11.8	41.6	40.8	30.6	21.2	23.6	24.3	32.2	28.3	13.3
87.5°	0.8	1.6	8.6	11.0	7.9	8.6	8.6	8.6	11.0	12.6	9.4
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°	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9
2.5°	2596.1	2536.4	2394.2	2229.3	2124.1	1952.9	1808.4	1704.0	1678.1	1627.8	1642.8
5°	2592.9	2468.8	2179.1	1872.8	1546.2	1302.7	1121.3	978.4	915.6	874.0	844.9
7.5°	2594.5	2400.5	1935.7	1448.0	1057.7	819.0	651.0	563.8	505.7	481.4	484.5
10°	2599.2	2323.6	1653.0	1072.7	713.8	529.3	426.4	384.8	365.1	362.0	361.2
12.5°	2610.2	2239.6	1382.8	796.3	499.4	384.8	345.5	331.4	325.1	325.1	322.7
15°	2622.0	2146.9	1158.3	592.1	384.8	330.6	312.5	305.5	301.5	301.5	300.8
17.5°	2622.0	2040.1	948.6	459.4	331.4	303.9	289.8	280.3	277.2	277.2	276.4
20°	2605.5	1916.0	762.5	369.9	300.8	278.8	264.6	254.4	250.5	248.9	248.1
22.5°	2548.2	1750.3	607.0	318.0	275.6	256.8	238.7	226.9	223.8	222.2	223.0
25°	2446.1	1563.4	480.6	279.6	252.9	230.1	214.4	205.7	202.6	202.6	203.4
27.5°	2340.9	1367.9	380.8	250.5	225.4	205.0	192.4	186.9	186.1	188.5	189.2
30°	2243.5	1171.6	308.6	226.9	201.0	183.8	175.1	173.5	173.5	174.3	175.1
32.5°	2135.1	999.6	258.3	206.5	181.4	166.5	161.8	161.8	163.3	163.3	164.9
35°	2066.8	852.0	226.9	186.9	166.5	153.9	150.8	151.6	153.9	157.1	158.6
37.5°	2029.9	734.2	206.5	171.2	152.3	143.7	140.6	142.1	147.6	153.1	153.9
40°	2033.0	645.5	190.0	157.8	141.3	131.9	129.6	134.3	139.8	145.3	146.1
42.5°	2067.6	579.5	174.3	142.1	131.9	118.6	117.8	122.5	124.9	130.4	131.1
45°	2108.4	531.6	157.8	125.6	114.6	102.9	103.7	107.6	110.7	119.4	120.9
47.5°	2121.0	498.6	139.0	106.8	94.2	90.3	91.1	93.4	99.7	107.6	108.4
50°	2135.1	478.2	120.9	90.3	80.1	79.3	80.1	81.7	85.6	88.7	87.9
52.5°	2195.6	477.4	106.0	78.5	68.3	69.9	70.7	69.9	66.7	62.0	60.5
54°	2252.1	479.8	98.9	73.0	62.8	65.2	64.4	60.5	52.6	47.9	45.5
55°	2297.7	482.1	95.0	69.1	59.7	60.5	61.3	53.4	43.2	38.5	36.9
57.5°	2387.2	476.7	85.6	60.5	52.6	49.5	48.7	35.3	23.6	20.4	18.8
60°	2342.4	430.3	77.7	51.8	44.8	40.0	33.0	19.6	11.8	8.6	8.6
62.5°	2166.5	365.1	69.1	42.4	36.9	30.6	17.3	11.0	5.5	3.1	2.4
65°	1938.0	307.0	62.0	33.8	29.1	19.6	9.4	7.1	2.4	0.0	0.0
67.5°	1440.9	227.7	52.6	26.7	22.0	12.6	6.3	3.9	0.8	0.0	0.0
70°	667.5	139.0	44.8	20.4	15.7	9.4	4.7	2.4	0.0	0.0	0.0
72.5°	191.6	87.2	36.9	14.9	11.0	7.9	3.9	1.6	0.8	0.0	0.0
75°	66.7	69.9	27.5	11.0	8.6	5.5	3.1	1.6	0.8	0.0	0.0
77.5°	40.0	56.5	17.3	9.4	7.1	4.7	3.1	1.6	0.8	0.8	0.0
80°	22.8	37.7	11.0	7.9	6.3	3.9	2.4	1.6	0.8	0.8	0.0
82.5°	12.6	18.1	8.6	7.1	5.5	3.9	2.4	1.6	0.8	0.8	0.8
85°	10.2	9.4	7.1	6.3	4.7	3.1	2.4	0.8	0.0	0.0	0.0
87.5°	7.9	6.3	6.3	6.3	4.7	3.1	2.4	0.8	0.0	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)