

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: P452548

Luminaire Tested: **GALN-SA3C-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18945 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

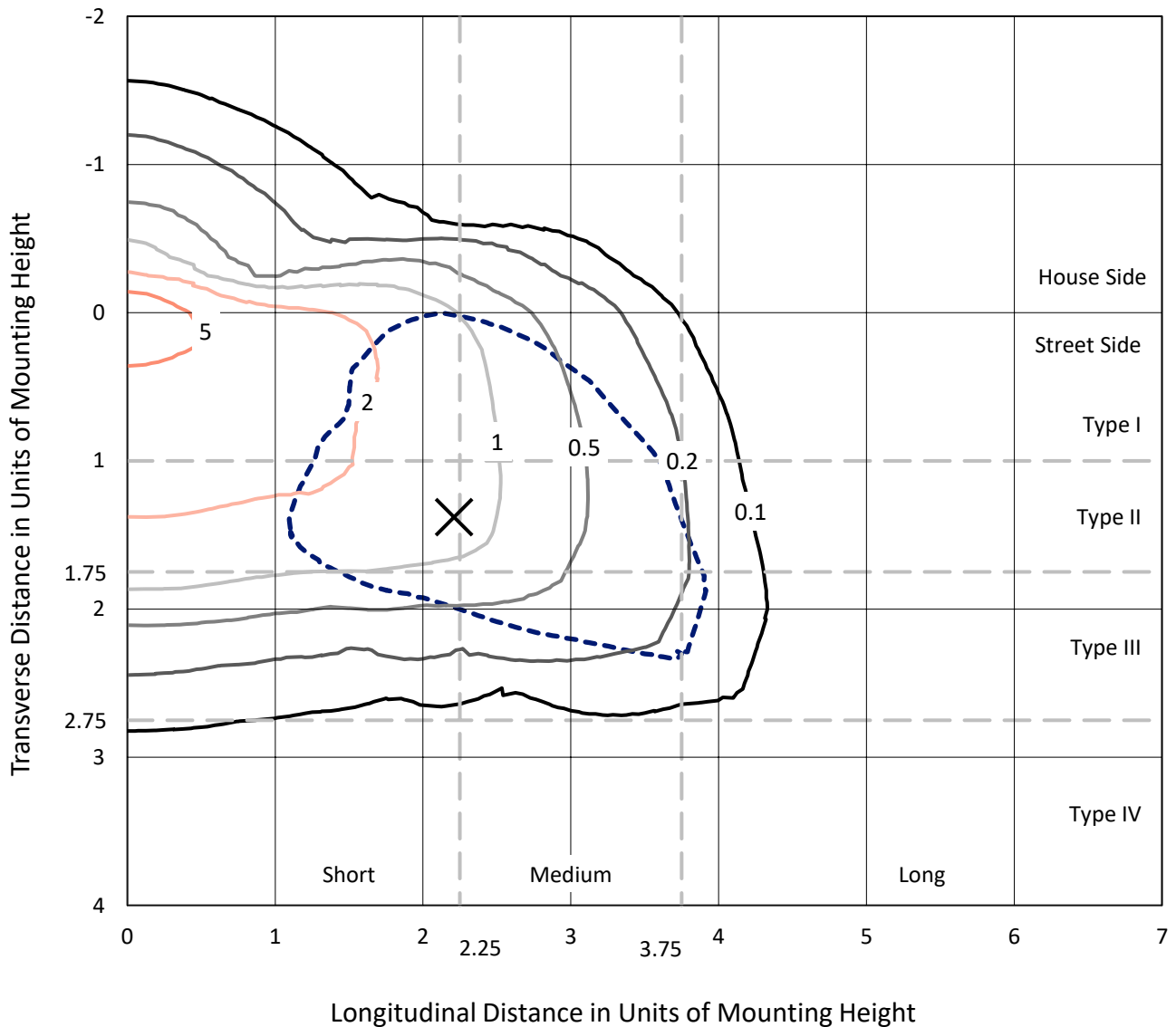
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

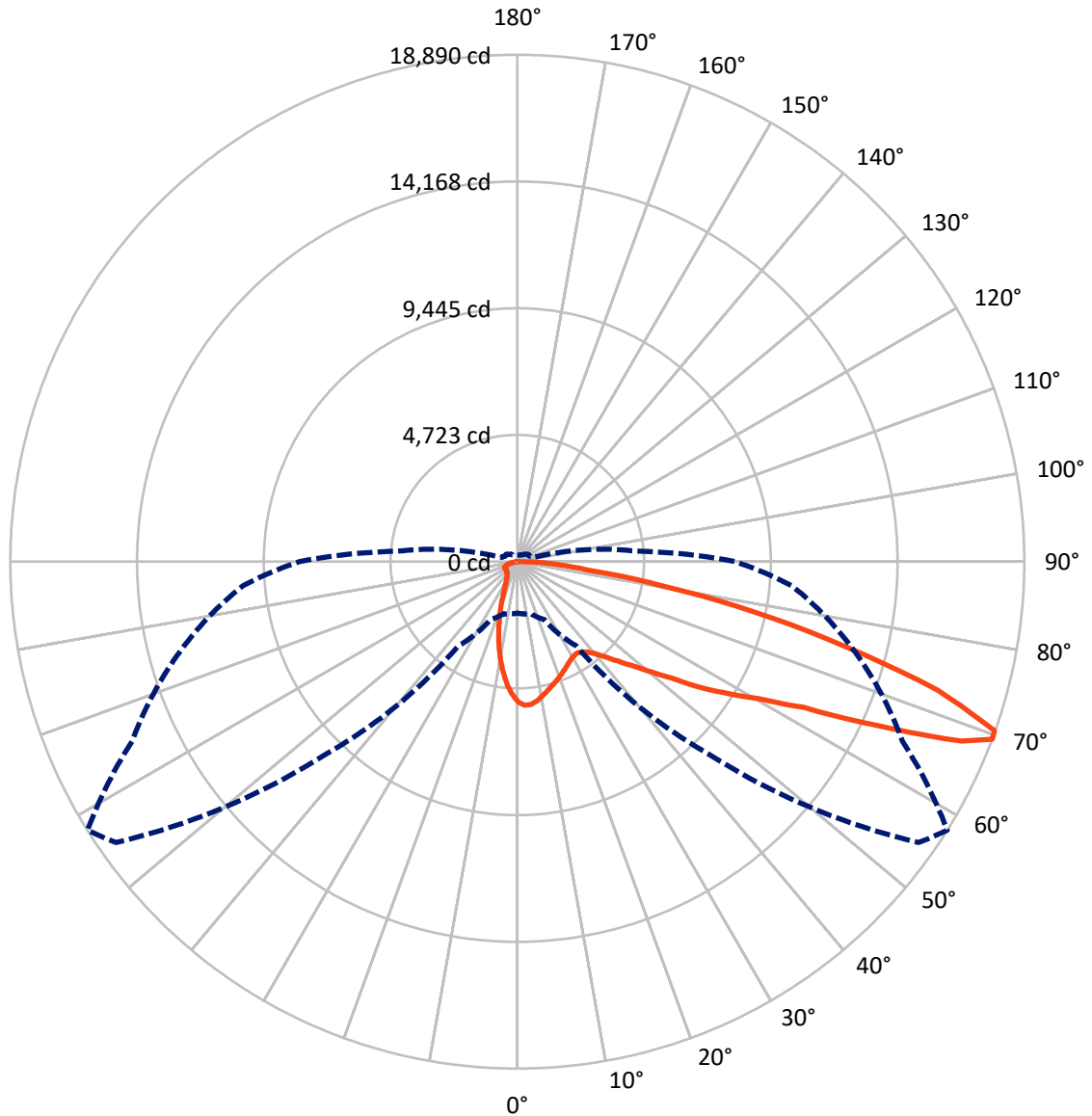
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2776.4	0.0	2776.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	16168.6	0.0	16168.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	18945.0	0.0	18945.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.6	2.3
10°-20°	976.3	5.2
20°-30°	1261.4	6.7
30°-40°	1638.3	8.6
40°-50°	2381.8	12.6
50°-60°	3800.6	20.1
60°-70°	5077.1	26.8
70°-80°	2926.7	15.4
80°-90°	438.4	2.3
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°	18945.0	100.0
0°-180°	18945.0	100.0

**Coefficient of Utilization**

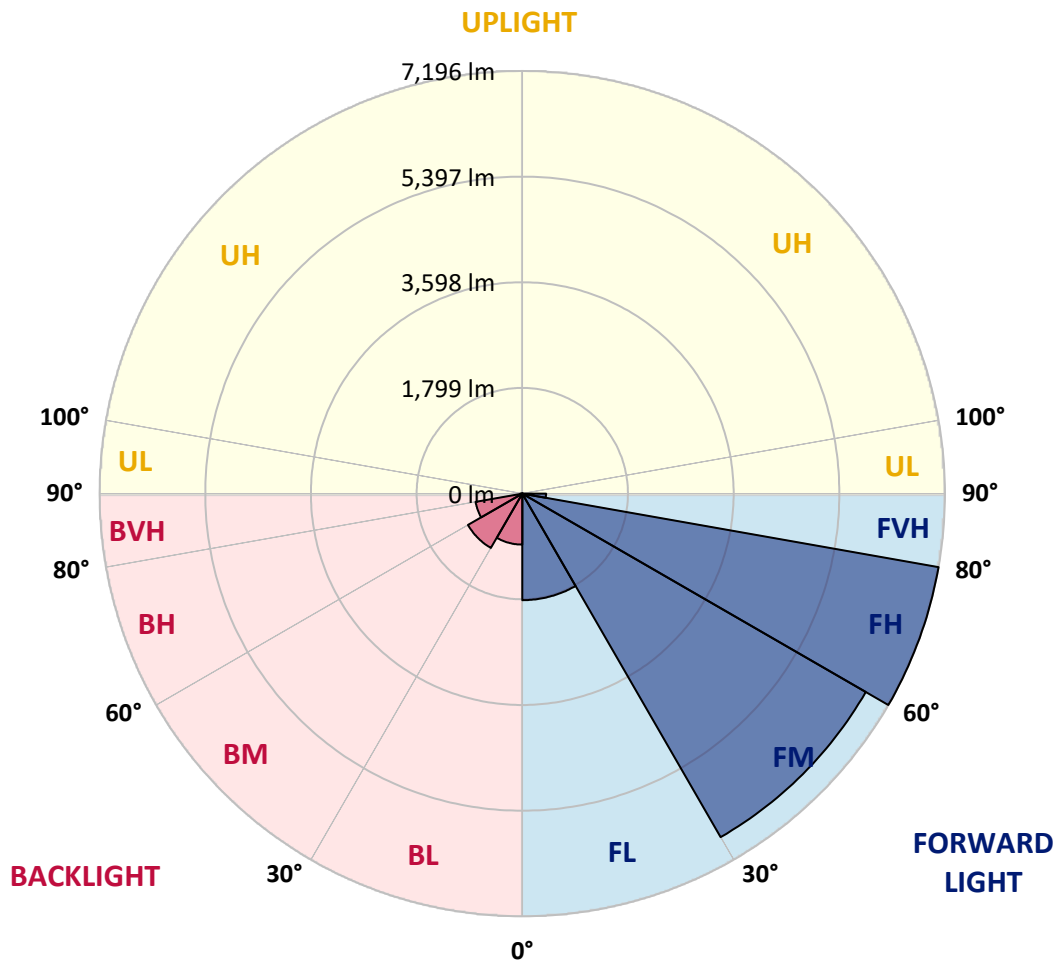


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.4	9.6			
FM (30°-60°)	6752.9	35.6			
FH (60°-80°)	7196.5	38.0			G3/7500
FVH (80°-90°)	404.8	2.1			G3/500
BL (0°-30°)	867.8	4.6	B2/1000		
BM (30°-60°)	1067.7	5.6	B2/2500		
BH (60°-80°)	807.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3
2.5°	5429.7	5444.5	5440.3	5435.0	5426.5	5403.3	5365.2	5358.9	5334.6	5282.8	5218.4
5°	5346.2	5358.9	5360.0	5367.4	5377.9	5373.7	5346.2	5343.1	5307.1	5237.4	5129.6
7.5°	5059.9	5076.8	5113.8	5155.0	5192.0	5226.8	5235.3	5240.6	5218.4	5138.1	4994.4
10°	4737.6	4754.6	4771.5	4832.7	4923.6	5010.2	5082.1	5091.6	5096.9	5022.9	4847.5
12.5°	4380.5	4415.4	4451.3	4542.2	4663.7	4800.0	4926.8	4946.8	4982.8	4926.8	4720.7
15°	4077.3	4113.2	4165.0	4246.3	4393.2	4589.7	4768.3	4801.0	4871.8	4843.3	4602.4
17.5°	3867.0	3879.7	3915.6	4008.6	4167.1	4374.2	4613.0	4678.5	4791.5	4784.1	4501.0
20°	3701.2	3717.0	3739.2	3796.2	3961.1	4179.8	4468.2	4552.7	4705.9	4731.3	4400.6
22.5°	3631.4	3643.0	3639.9	3670.5	3782.5	4002.3	4321.4	4421.7	4629.9	4695.4	4307.6
25°	3635.6	3646.2	3630.4	3623.0	3689.5	3845.9	4168.2	4296.0	4568.6	4671.1	4223.1
27.5°	3706.4	3713.8	3684.2	3654.7	3659.9	3748.7	4041.4	4182.9	4516.8	4681.6	4152.3
30°	3801.5	3815.3	3796.2	3760.3	3721.2	3725.5	3960.0	4099.5	4492.5	4718.6	4118.5
32.5°	3924.1	3936.8	3928.3	3899.8	3849.1	3793.1	3939.9	4068.8	4494.6	4793.6	4111.1
35°	4053.0	4078.3	4092.1	4090.0	4048.8	3951.6	4019.2	4125.9	4545.4	4919.4	4154.4
37.5°	4198.8	4219.9	4279.1	4317.1	4279.1	4166.0	4197.7	4271.7	4657.3	5101.1	4249.5
40°	4340.4	4372.1	4458.7	4577.0	4562.3	4462.9	4470.3	4518.9	4854.9	5371.6	4435.5
42.5°	4488.3	4526.3	4677.4	4852.8	4887.7	4810.5	4830.6	4873.9	5136.0	5746.7	4754.6
45°	4678.5	4723.9	4909.9	5128.6	5265.9	5218.4	5275.4	5296.6	5512.1	6234.8	5175.1
47.5°	4923.6	4976.4	5205.7	5478.3	5672.7	5716.0	5815.3	5802.7	5978.1	6812.7	5720.3
50°	5336.7	5366.3	5582.9	5860.8	6128.1	6323.6	6431.3	6451.4	6556.0	7374.8	6329.9
52.5°	5828.0	5854.4	6010.8	6253.8	6588.8	7002.9	7269.2	7203.7	7229.0	8059.5	7043.1
55°	6380.6	6425.0	6524.3	6686.0	7120.2	7729.8	8264.5	8280.3	7999.3	8714.6	7726.7
57.5°	6808.5	6883.5	7053.6	7284.0	7834.4	8538.1	9256.6	9267.1	8907.9	9414.0	8481.1
60°	6593.0	6681.7	7070.5	7631.6	8771.6	9948.6	10442.1	10381.8	9792.3	10210.7	9401.3
62.5°	5663.2	5679.0	6244.3	7121.3	9060.1	11835.7	12206.5	11951.9	10972.4	11220.7	10336.4
65°	3665.2	3768.8	4216.8	5445.5	8112.3	12882.7	15298.0	14709.5	12627.0	12367.1	11119.3
67.5°	2313.9	2287.5	2473.4	3109.5	5579.7	11960.3	17936.3	17843.3	14790.9	13090.9	10932.3
69°	1918.7	1948.3	2011.7	2383.6	3839.6	10211.7	18248.0	18890.4	15840.1	13033.8	10252.9
70°	1740.2	1753.9	1820.5	2113.1	2962.6	8552.9	17736.6	18861.8	16252.1	12795.0	9760.6
72.5°	1380.9	1379.9	1494.0	1758.1	2214.6	4882.4	14563.7	16375.7	15791.4	11683.5	8064.8
75°	1049.2	1066.1	1191.8	1487.6	2040.2	2667.8	10163.1	12611.2	12612.2	9228.1	5032.4
77.5°	756.5	767.1	913.9	1248.9	1921.9	2162.8	6769.4	9045.3	8503.3	4228.4	1581.7
80°	495.5	501.9	613.9	988.9	1732.8	2040.2	4013.9	5536.4	4010.7	1122.1	523.0
82.5°	271.5	303.2	375.1	640.3	1390.4	1884.9	2439.6	2802.0	1504.6	499.8	272.6
85°	136.3	144.7	211.3	374.0	908.6	1559.5	1699.0	1607.0	776.6	248.3	141.6
87.5°	40.1	50.7	87.7	144.7	368.7	812.5	945.6	848.4	299.0	89.8	29.6
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°	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3	5235.3
2.5°	5192.0	5173.0	5088.4	5012.4	4942.6	4868.7	4806.3	4751.4	4756.7	4757.7	4701.7
5°	5073.6	5030.3	4869.7	4719.7	4592.9	4432.3	4294.9	4206.2	4161.8	4102.6	4123.8
7.5°	4913.0	4829.6	4606.6	4357.3	4123.8	3915.6	3689.5	3534.2	3434.9	3338.8	3351.4
10°	4747.2	4613.0	4288.6	3959.0	3656.8	3324.0	3035.5	2788.3	2604.4	2535.8	2490.3
12.5°	4577.0	4400.6	3988.5	3550.1	3132.7	2734.4	2325.5	2060.3	1857.4	1749.7	1763.4
15°	4421.7	4207.2	3675.8	3141.2	2599.2	2124.8	1716.9	1464.4	1322.8	1293.2	1310.1
17.5°	4278.0	3997.0	3383.1	2743.9	2111.0	1593.3	1290.1	1147.4	1090.4	1074.5	1073.5
20°	4130.1	3818.4	3054.5	2319.2	1645.1	1235.1	1058.7	992.1	981.6	987.9	988.9
22.5°	3980.1	3597.6	2716.4	1897.6	1310.1	1010.1	925.6	907.6	916.0	930.8	932.9
25°	3841.7	3403.2	2391.0	1527.8	1046.0	887.5	846.3	846.3	865.3	887.5	888.6
27.5°	3727.6	3215.1	2066.6	1212.9	875.9	798.8	785.0	792.4	818.8	835.7	836.8
30°	3633.5	3039.7	1760.2	972.0	770.2	728.0	724.8	737.5	756.5	772.4	773.4
32.5°	3562.7	2885.5	1473.9	816.7	697.3	674.1	673.0	682.5	693.1	697.3	701.6
35°	3535.3	2757.6	1211.9	718.5	648.7	633.9	633.9	632.9	637.1	639.2	641.3
37.5°	3557.5	2659.4	1009.0	655.1	612.8	602.2	595.9	589.6	587.5	587.5	588.5
40°	3651.5	2607.6	857.9	613.9	587.5	571.6	560.0	552.6	545.2	547.3	549.4
42.5°	3851.2	2617.1	755.4	586.4	565.3	543.1	526.2	517.7	512.4	518.8	517.7
45°	4169.2	2712.2	689.9	567.4	543.1	514.5	498.7	490.2	490.2	499.8	502.9
47.5°	4614.0	2893.9	655.1	552.6	526.2	492.4	476.5	470.2	472.3	488.1	489.2
50°	5157.1	3209.9	648.7	545.2	517.7	476.5	458.6	452.2	457.5	474.4	476.5
52.5°	5756.2	3616.6	679.4	546.2	510.3	467.0	443.8	434.2	439.5	453.3	457.5
55°	6466.2	4125.9	758.6	550.5	499.8	461.7	433.2	412.1	418.4	427.9	429.0
57.5°	7191.0	4768.3	898.1	551.5	491.3	452.2	415.2	387.8	387.8	394.1	397.3
60°	8076.4	5467.7	1081.9	552.6	492.4	438.5	390.9	360.3	356.1	359.2	360.3
62.5°	8955.5	6053.1	1112.6	549.4	502.9	424.7	364.5	332.8	325.4	324.4	322.3
65°	9343.2	5944.2	911.8	534.6	514.5	416.3	343.4	306.4	293.7	289.5	289.5
67.5°	8711.4	5028.2	685.7	514.5	507.2	407.8	323.3	284.2	269.4	261.0	261.0
69°	8117.6	4472.4	616.0	500.8	488.1	394.1	310.6	272.6	254.6	245.1	242.0
70°	7659.1	4090.0	586.4	489.2	470.2	378.3	301.1	264.1	244.1	233.5	231.4
72.5°	6112.2	3208.8	513.5	444.8	400.4	318.0	267.3	237.7	218.7	207.1	203.9
75°	3522.6	1739.1	425.8	386.7	322.3	247.2	226.1	207.1	192.3	181.7	178.6
77.5°	1084.0	672.0	308.5	305.3	236.7	191.2	180.7	173.3	162.7	151.1	149.0
80°	456.4	342.3	209.2	206.0	157.4	133.1	130.0	128.9	124.7	115.2	112.0
82.5°	250.4	193.4	145.8	126.8	95.1	77.1	80.3	81.4	78.2	68.7	62.3
85°	122.6	105.7	70.8	57.1	43.3	27.5	26.4	31.7	29.6	21.1	23.2
87.5°	24.3	29.6	19.0	8.5	4.2	0.0	0.0	0.0	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)