

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: P533465

Luminaire Tested: **GALN-SA8D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27089 lumens  
Efficiency: N/A  
Efficacy: 54.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

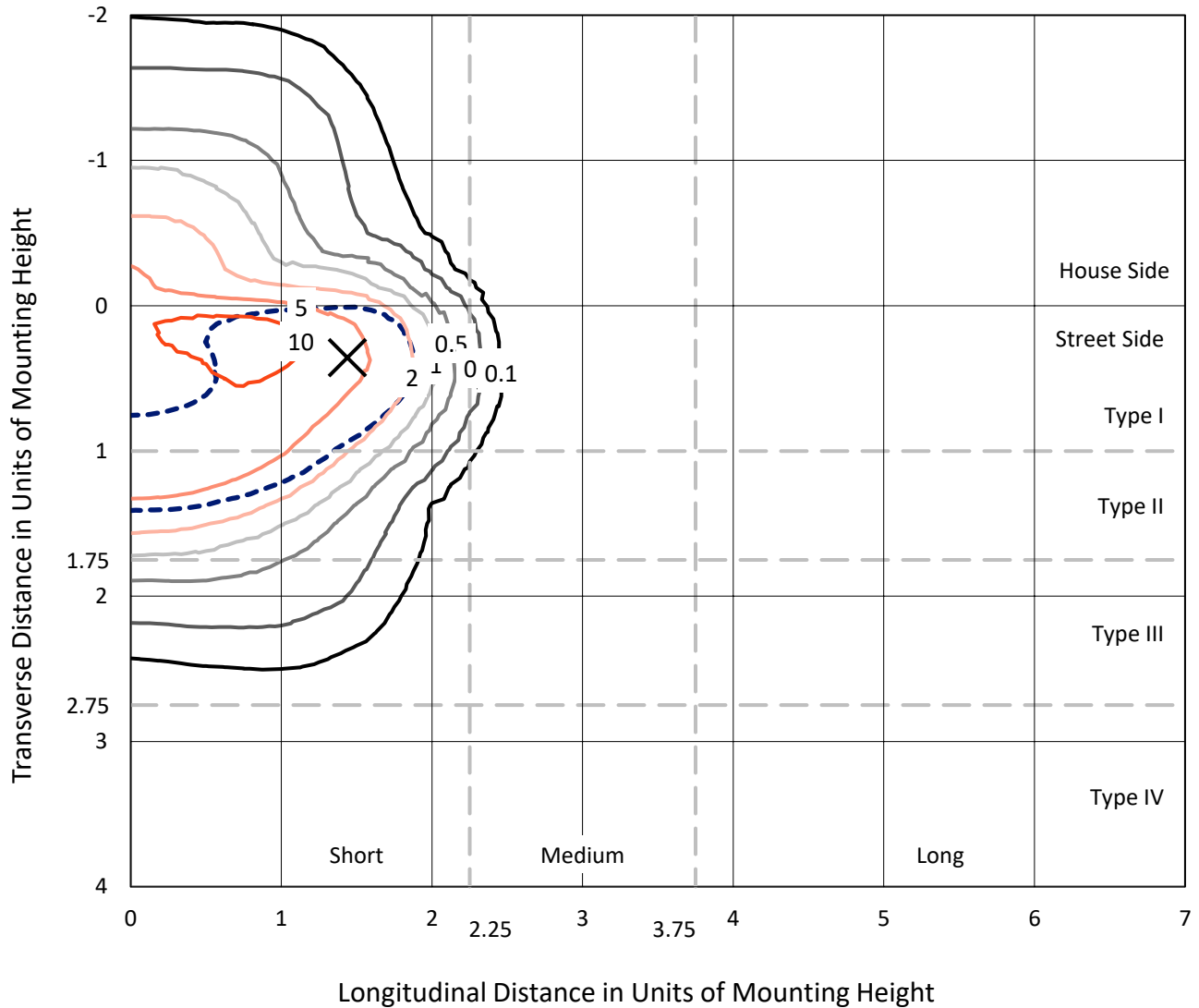
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

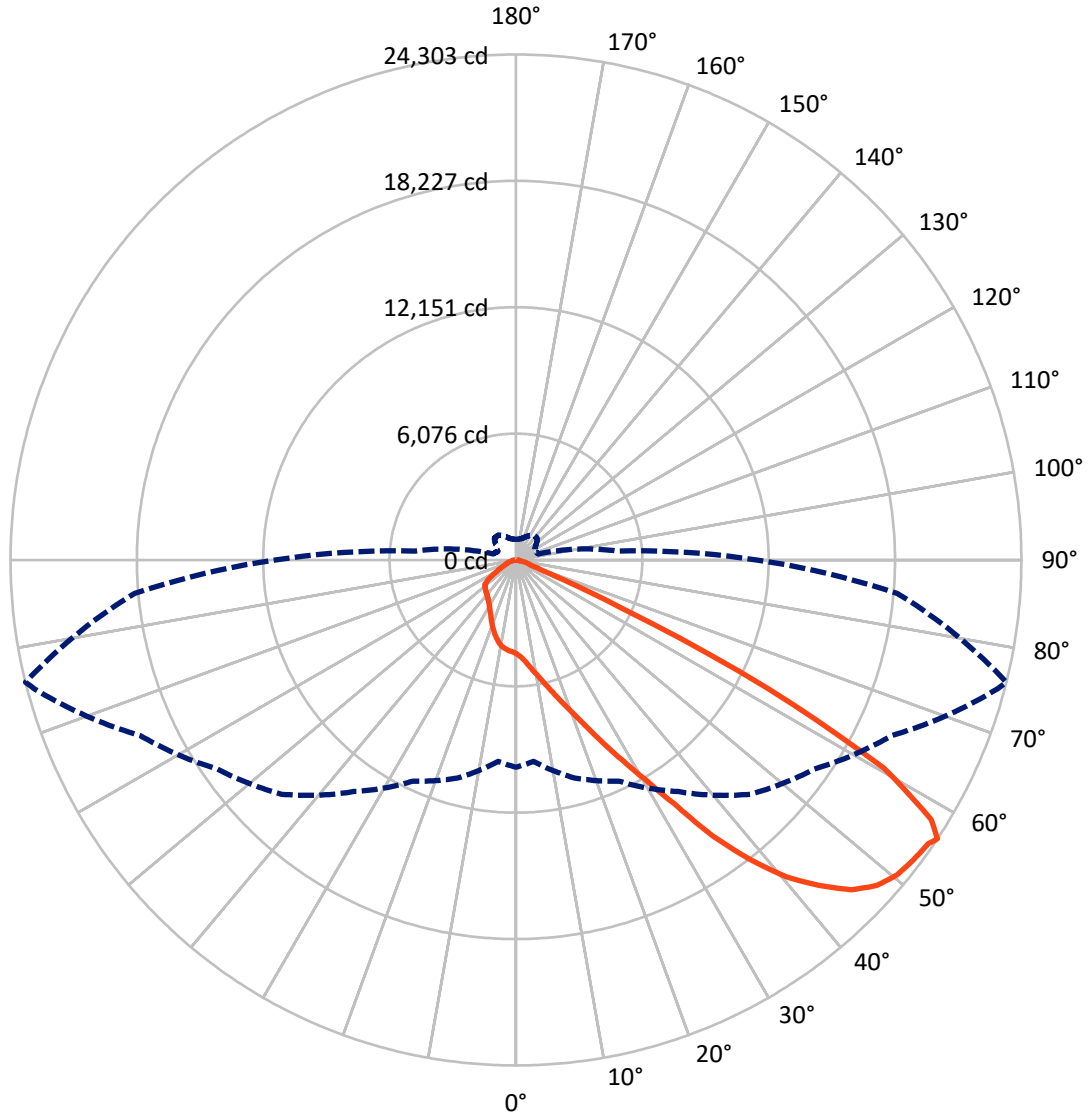
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4255.5	0.0	4255.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	22833.4	0.0	22833.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	27089.0	0.0	27089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.2	1.7
10°-20°	1459.2	5.4
20°-30°	2646.0	9.8
30°-40°	4563.1	16.8
40°-50°	7413.0	27.4
50°-60°	7813.5	28.8
60°-70°	2387.4	8.8
70°-80°	306.0	1.1
80°-90°	46.5	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°	27089.0	100.0
0°-180°	27089.0	100.0

**Coefficient of Utilization**



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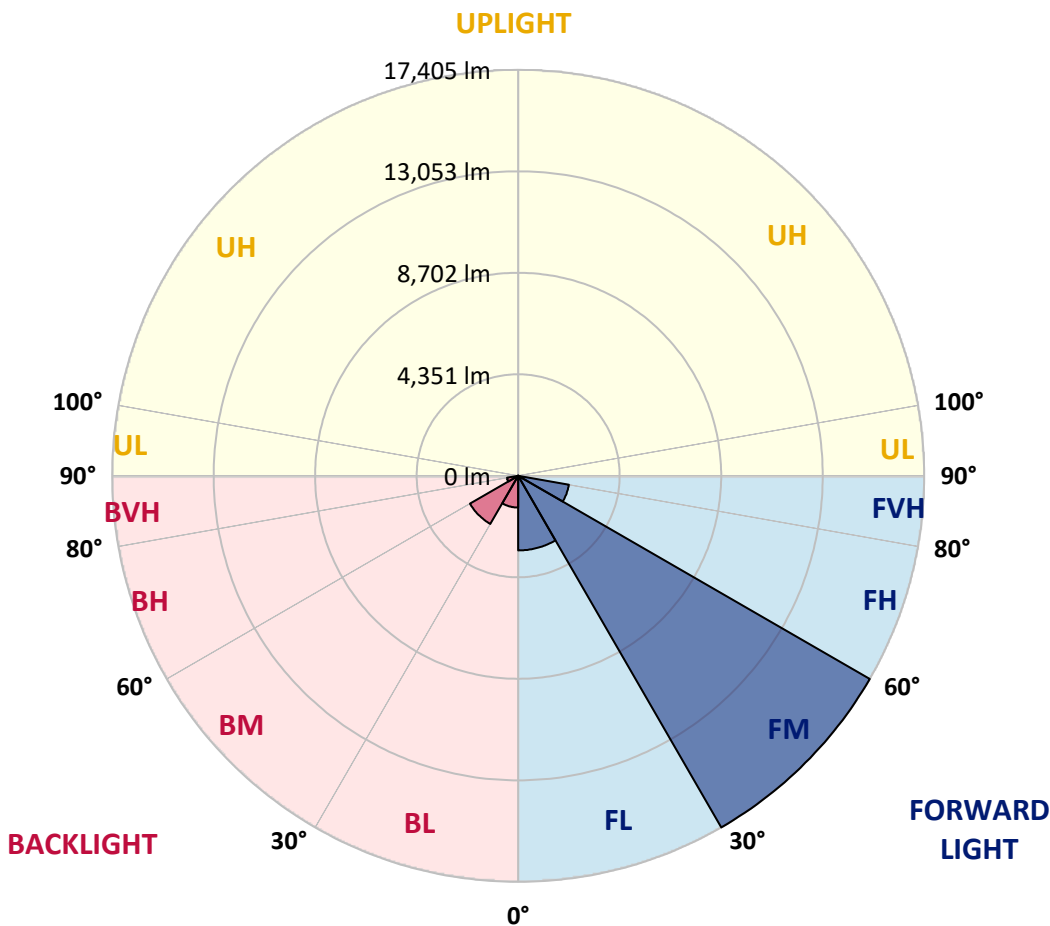
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3198.1	11.8			
FM (30°-60°)	17404.6	64.2			
FH (60°-80°)	2207.9	8.2			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1361.3	5.0	B3/2500		
BM (30°-60°)	2385.0	8.8	B2/2500		
BH (60°-80°)	485.5	1.8	B1/500		G1/500
BVH (80°-90°)	23.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0
2.5°	5193.1	5073.3	5078.2	5068.3	5053.3	4998.4	4833.6	4808.6	4698.8	4668.8	4568.9
5°	5817.3	5712.4	5772.3	5682.4	5597.6	5547.6	5278.0	5153.1	4978.4	4913.5	4773.7
7.5°	6206.7	6156.8	6136.8	6141.8	6061.9	5937.1	5817.3	5542.6	5307.9	5258.0	4963.4
10°	6396.5	6366.5	6396.5	6381.5	6416.5	6431.4	6221.7	6056.9	5712.4	5627.5	5168.1
12.5°	6441.4	6501.4	6526.3	6591.2	6676.1	6820.9	6806.0	6581.2	6121.9	6066.9	5482.7
15°	6551.3	6601.2	6576.3	6681.1	6840.9	7085.6	7215.4	7180.5	6686.1	6586.2	5847.2
17.5°	6651.2	6561.3	6646.2	6855.9	7015.7	7390.2	7704.8	7849.6	7300.3	7185.4	6181.8
20°	6786.0	6761.0	6746.0	6850.9	7135.5	7634.8	8259.0	8523.7	7989.4	7869.5	6661.1
22.5°	7195.4	7200.4	7190.4	7035.6	7240.4	7804.6	8743.4	9397.5	8813.3	8713.4	7205.4
25°	7734.7	7669.8	7619.9	7495.0	7470.1	7959.4	9232.7	10466.1	9802.0	9732.1	7794.6
27.5°	8304.0	8304.0	8154.2	8039.3	7879.5	8343.9	9682.1	11504.7	10995.4	10900.5	8309.0
30°	8923.1	8958.1	8938.1	8693.4	8593.6	8763.3	10141.5	12832.9	12363.6	12243.7	9157.8
32.5°	9836.9	9762.0	9846.9	9642.2	9347.6	9497.4	10865.6	14021.4	14141.2	13971.4	10271.3
35°	11045.3	11000.4	10945.4	10610.9	10261.4	10381.2	11889.2	15484.4	16373.2	16288.3	11394.8
37.5°	12128.9	12103.9	12059.0	11829.3	11424.8	11569.6	13052.6	17007.4	18550.3	18270.7	12982.7
40°	13267.4	13402.2	13257.4	13052.6	12683.1	13002.7	14420.8	17911.2	20382.9	20043.4	14196.1
42.5°	14810.3	14705.4	14770.4	14395.9	14196.1	14545.7	15794.0	18815.0	21806.0	21401.5	15484.4
45°	16453.1	16458.1	16283.3	16163.5	15644.2	16023.7	16637.9	19314.3	22939.5	22624.9	16458.1
47.5°	17506.7	17501.7	17691.5	17881.2	17346.9	16972.4	17212.1	19788.7	23523.7	23378.9	16812.6
50°	17341.9	17391.9	17636.6	18345.6	18625.2	18120.9	17751.4	19648.9	23788.4	23773.4	17117.2
52.5°	15084.9	15249.7	15659.2	16682.8	18090.9	18715.1	18315.6	19908.5	23918.2	23943.2	17571.6
55°	11484.7	11574.6	12353.6	13596.9	15154.8	17292.0	18090.9	20113.3	24018.1	24063.0	18120.9
56°	9961.8	9722.1	10845.6	11729.4	13591.9	15928.8	17521.7	19953.5	23958.1	24302.7	18395.5
57.5°	7520.0	7360.2	8269.0	9372.5	11165.2	13631.9	15754.1	19199.5	23553.7	23548.7	18001.1
60°	4573.9	4414.1	5113.2	5762.3	6766.0	8393.8	10645.8	15289.7	19913.5	20333.0	14575.6
62.5°	2721.4	2821.2	3510.3	3904.8	4229.4	4399.2	5507.7	9087.9	13287.3	13586.9	9043.0
65°	1812.6	1847.5	2366.9	3016.0	3160.8	2516.7	2242.0	3680.1	5762.3	5577.6	3730.0
67.5°	1118.5	1198.4	1587.9	2267.0	2511.7	1837.6	1063.6	1373.2	1587.9	1587.9	1078.6
70°	679.1	719.0	1058.6	1542.9	1722.7	1183.4	774.0	774.0	764.0	749.0	644.1
72.5°	324.6	349.5	539.3	793.9	808.9	624.2	599.2	654.1	639.2	634.2	534.3
75°	139.8	149.8	189.7	249.7	284.6	264.6	364.5	469.4	484.4	469.4	384.5
77.5°	44.9	49.9	69.9	89.9	94.9	114.8	154.8	194.7	224.7	209.7	189.7
80°	5.0	10.0	20.0	44.9	69.9	89.9	114.8	129.8	144.8	144.8	134.8
82.5°	5.0	5.0	20.0	39.9	64.9	84.9	109.9	124.8	144.8	149.8	139.8
85°	0.0	5.0	15.0	35.0	54.9	54.9	49.9	49.9	35.0	35.0	35.0
87.5°	0.0	0.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0
2.5°	4549.0	4539.0	4404.1	4319.3	4274.3	4184.4	4129.5	4089.6	4059.6	4024.6	4029.6
5°	4608.9	4573.9	4349.2	4194.4	4009.7	3909.8	3824.9	3755.0	3710.1	3700.1	3680.1
7.5°	4778.6	4593.9	4254.3	3974.7	3740.0	3640.2	3565.3	3520.3	3540.3	3495.4	3530.3
10°	4908.5	4633.8	4139.5	3735.0	3500.3	3425.4	3385.5	3420.5	3470.4	3450.4	3425.4
12.5°	5068.3	4673.8	3954.7	3505.3	3285.6	3230.7	3300.6	3365.5	3465.4	3505.3	3455.4
15°	5248.0	4718.7	3720.1	3240.7	3100.9	3145.8	3265.7	3380.5	3480.4	3530.3	3560.3
17.5°	5467.7	4703.7	3490.4	3031.0	2926.1	3055.9	3200.7	3305.6	3455.4	3530.3	3510.3
20°	5672.5	4653.8	3235.7	2821.2	2826.2	2946.1	3065.9	3235.7	3315.6	3415.5	3380.5
22.5°	5867.2	4563.9	2971.0	2676.4	2676.4	2861.2	2921.1	3031.0	3100.9	3150.8	3145.8
25°	6141.8	4394.2	2751.3	2536.6	2596.5	2716.4	2766.3	2801.3	2771.3	2811.3	2816.3
27.5°	6336.6	4219.4	2571.6	2411.8	2521.6	2611.5	2596.5	2576.6	2506.7	2451.7	2486.7
30°	6546.3	4014.7	2416.8	2326.9	2386.8	2466.7	2406.8	2346.9	2237.0	2147.1	2152.1
32.5°	6845.9	3919.8	2282.0	2227.0	2306.9	2316.9	2252.0	2162.1	2052.3	1967.4	1962.4
35°	7405.2	3859.9	2167.1	2162.1	2177.1	2182.1	2117.2	2007.3	1962.4	1892.5	1917.5
37.5°	7964.4	3829.9	2087.2	2067.3	2062.3	2067.3	1992.4	1887.5	1972.4	1967.4	1977.4
40°	8678.5	3964.7	1972.4	1947.4	1952.4	1952.4	1857.5	1827.6	1977.4	1992.4	1997.3
42.5°	9402.5	4134.5	1897.5	1817.6	1837.6	1837.6	1787.6	1752.7	1857.5	1757.7	1742.7
45°	10031.7	4384.2	1817.6	1687.8	1737.7	1762.7	1747.7	1687.8	1622.8	1453.1	1453.1
47.5°	10236.4	4603.9	1722.7	1562.9	1602.9	1712.7	1667.8	1542.9	1428.1	1288.3	1278.3
50°	10595.9	4843.6	1647.8	1418.1	1503.0	1637.8	1592.9	1468.0	1338.2	1238.4	1243.3
52.5°	10965.4	5118.2	1508.0	1248.3	1353.2	1577.9	1577.9	1438.1	1238.4	1168.4	1158.5
55°	11519.7	5108.2	1258.3	1023.6	1208.4	1488.0	1513.0	1288.3	1108.5	1053.6	1053.6
56°	11599.6	4878.5	1133.5	958.7	1143.5	1463.1	1468.0	1248.3	1058.6	998.7	998.7
57.5°	11000.4	4404.1	993.7	878.8	1063.6	1418.1	1423.1	1213.4	1018.6	933.8	923.8
60°	8463.7	2981.0	828.9	784.0	963.7	1278.3	1303.3	1103.5	893.8	828.9	823.9
62.5°	4778.6	1652.8	729.0	709.1	828.9	1088.6	1163.5	963.7	759.0	724.0	734.0
65°	2182.1	908.8	614.2	574.2	669.1	838.9	938.8	793.9	624.2	584.2	584.2
67.5°	798.9	619.2	524.3	454.4	469.4	544.3	609.2	514.3	414.4	354.5	369.5
70°	569.2	519.3	459.4	394.5	364.5	354.5	349.5	289.6	204.7	159.8	169.8
72.5°	459.4	429.4	384.5	334.6	284.6	239.7	204.7	149.8	94.9	64.9	59.9
75°	329.6	314.6	279.6	239.7	199.7	169.8	139.8	94.9	49.9	25.0	25.0
77.5°	169.8	169.8	164.8	149.8	124.8	99.9	79.9	54.9	30.0	10.0	10.0
80°	129.8	139.8	144.8	129.8	114.8	89.9	64.9	39.9	20.0	5.0	5.0
82.5°	124.8	144.8	154.8	134.8	114.8	84.9	64.9	39.9	20.0	5.0	5.0
85°	30.0	30.0	44.9	49.9	64.9	69.9	54.9	35.0	15.0	5.0	5.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	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)