

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: P191796

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-RW-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32129 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

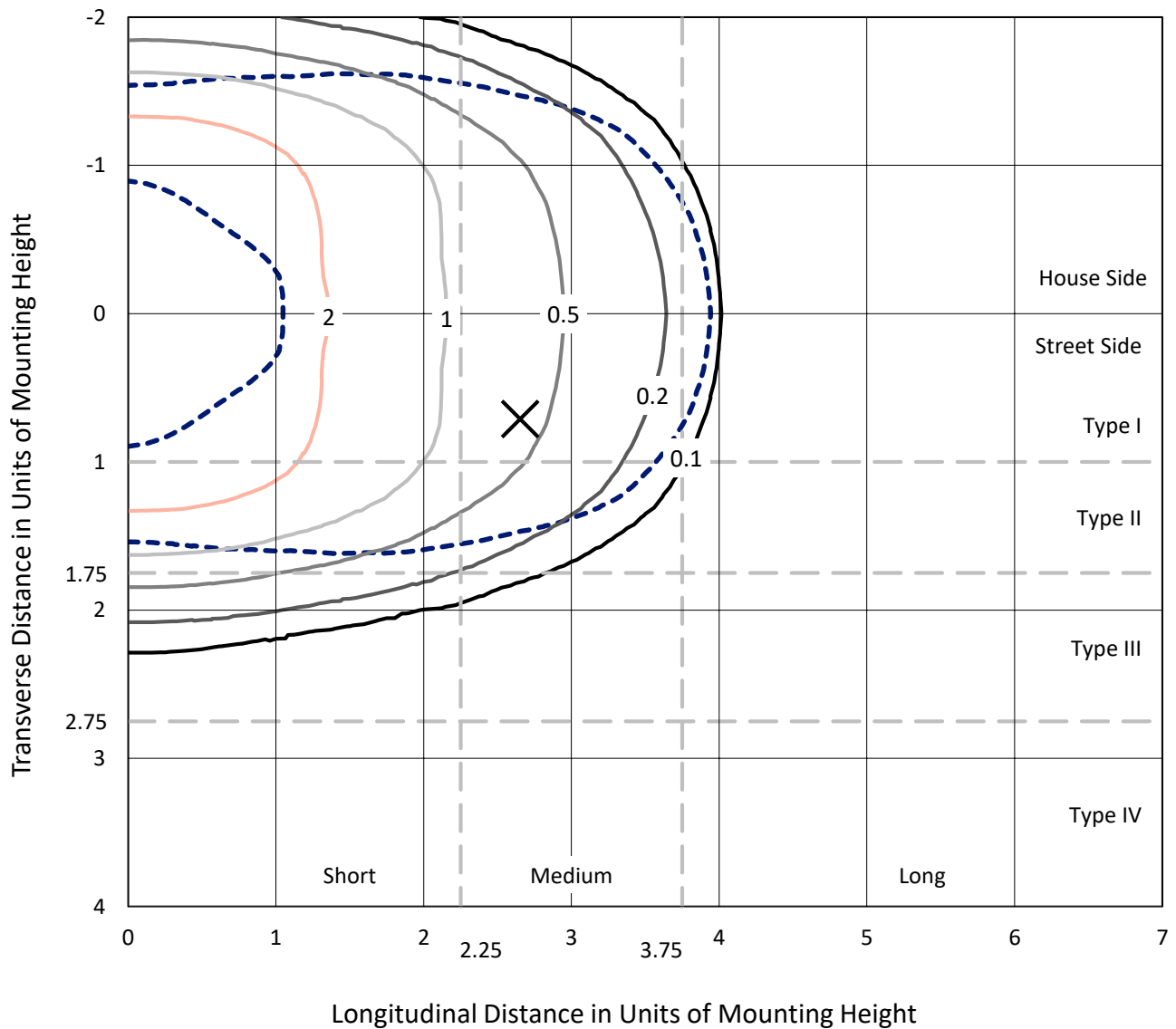
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

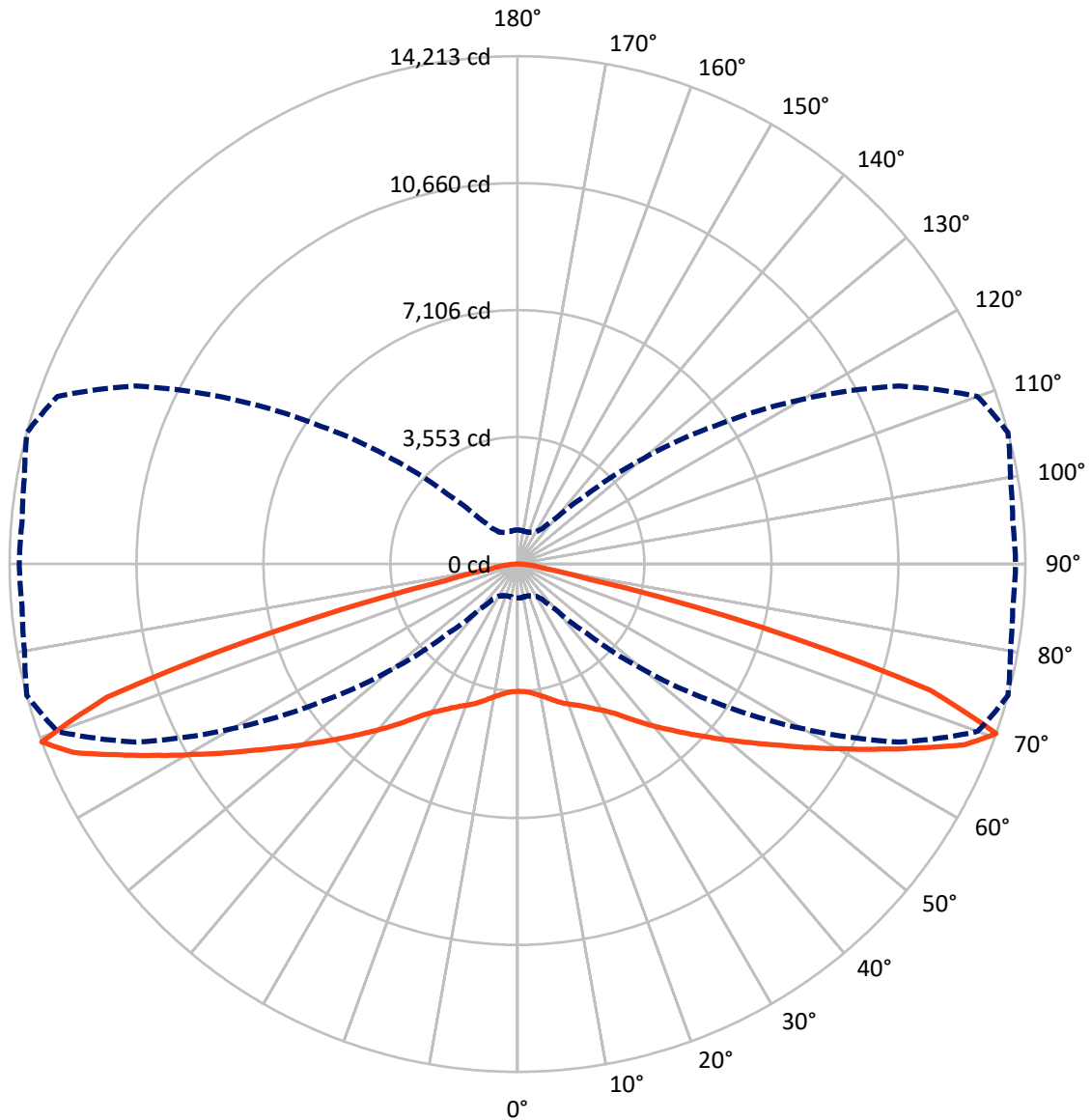
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16064.5	0.0	16064.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16064.5	0.0	16064.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32129.0	0.0	32129.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.8	1.1
10°-20°	1062.0	3.3
20°-30°	1998.9	6.2
30°-40°	3539.7	11.0
40°-50°	5919.5	18.4
50°-60°	8248.8	25.7
60°-70°	7649.4	23.8
70°-80°	3048.5	9.5
80°-90°	320.4	1.0
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°	32129.0	100.0
0°-180°	32129.0	100.0



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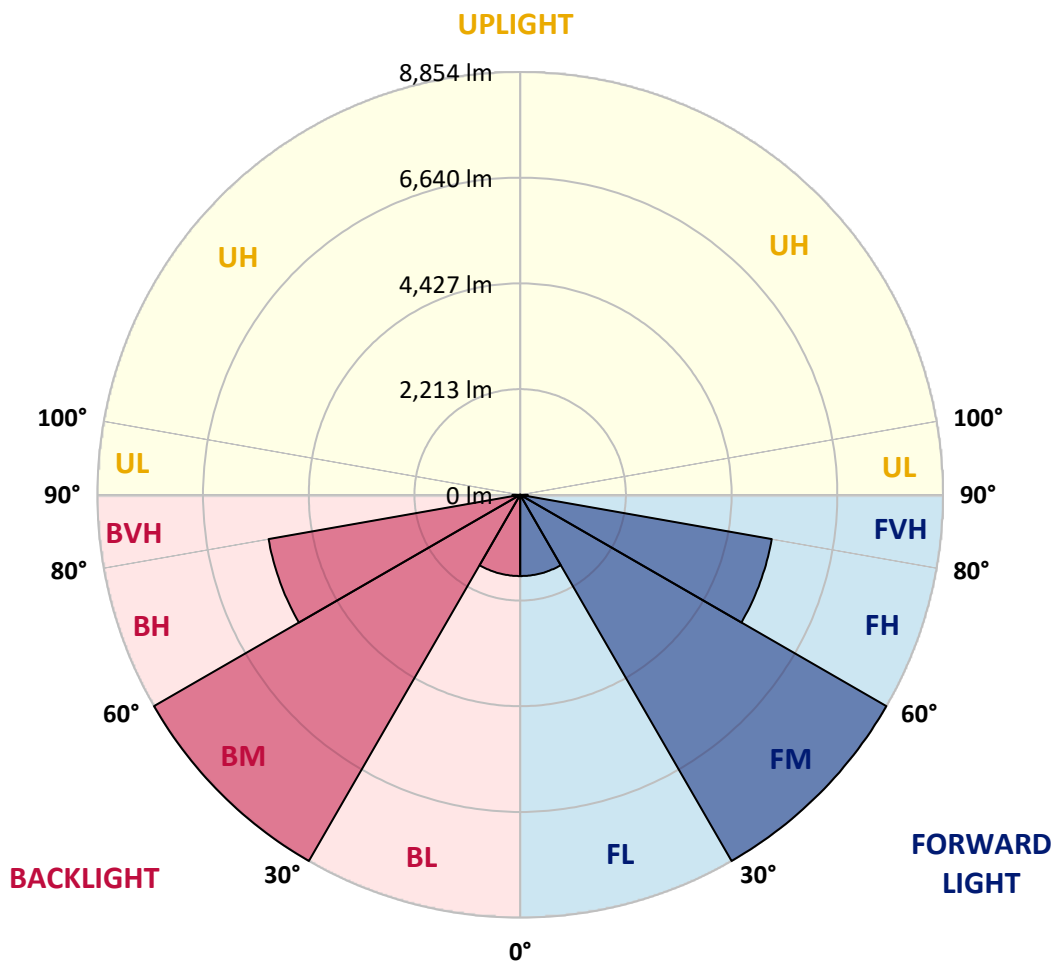
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1701.4	5.3			
FM	(30°-60°)	8853.9	27.6			
FH	(60°-80°)	5349.0	16.6			G3/7500
FVH	(80°-90°)	160.2	0.5			G2/225
BL	(0°-30°)	1701.4	5.3	B3/2500		
BM	(30°-60°)	8853.9	27.6	B5		
BH	(60°-80°)	5349.0	16.6	B5		G5
BVH	(80°-90°)	160.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9
2.5°	3557.8	3554.7	3557.8	3556.3	3559.3	3559.3	3562.3	3568.4	3568.4	3573.0	3571.4
5°	3522.9	3521.3	3525.9	3530.4	3535.0	3544.1	3553.2	3566.9	3577.5	3585.1	3592.7
7.5°	3454.5	3454.5	3460.6	3471.2	3481.9	3501.6	3522.9	3550.2	3577.5	3600.3	3620.0
10°	3398.3	3401.4	3409.0	3427.2	3445.4	3475.8	3504.6	3544.1	3582.1	3620.0	3650.4
12.5°	3364.9	3369.5	3383.2	3410.5	3440.9	3481.9	3525.9	3576.0	3618.5	3664.1	3694.4
15°	3375.6	3378.6	3398.3	3431.7	3471.2	3522.9	3582.1	3641.3	3691.4	3740.0	3781.0
17.5°	3434.8	3439.3	3462.1	3500.1	3541.1	3601.8	3665.6	3732.4	3794.7	3849.3	3899.4
20°	3541.1	3545.6	3574.5	3615.5	3664.1	3726.3	3790.1	3860.0	3929.8	3987.5	4043.7
22.5°	3691.4	3699.0	3726.3	3767.3	3822.0	3888.8	3964.7	4039.1	4105.9	4159.1	4209.2
25°	3888.8	3905.5	3931.3	3976.9	4034.6	4095.3	4177.3	4253.2	4317.0	4367.1	4403.6
27.5°	4168.2	4191.0	4210.7	4254.8	4310.9	4368.6	4450.6	4517.5	4578.2	4626.8	4654.1
30°	4538.7	4561.5	4581.2	4623.7	4675.4	4730.0	4807.5	4866.7	4904.7	4942.6	4941.1
32.5°	4988.2	5012.5	5020.1	5065.6	5118.8	5178.0	5247.8	5281.2	5311.6	5316.2	5288.8
35°	5490.8	5502.9	5533.3	5594.1	5654.8	5703.4	5770.2	5786.9	5786.9	5764.1	5703.4
37.5°	6042.0	6049.6	6092.1	6160.4	6222.7	6272.8	6318.4	6351.8	6335.1	6286.5	6184.7
40°	6646.4	6660.0	6720.8	6781.5	6851.3	6898.4	6947.0	6953.1	6936.4	6865.0	6726.8
42.5°	7223.4	7235.5	7296.3	7391.9	7483.0	7548.3	7593.9	7603.0	7549.8	7484.6	7313.0
45°	7719.9	7751.8	7830.8	7943.1	8075.2	8167.9	8230.1	8255.9	8208.9	8123.8	7924.9
47.5°	8113.2	8145.1	8257.5	8391.1	8555.1	8705.4	8808.7	8863.3	8851.2	8787.4	8570.3
50°	8401.7	8432.1	8553.6	8717.6	8908.9	9095.6	9271.8	9402.4	9447.9	9419.1	9220.2
52.5°	8435.1	8485.2	8628.0	8848.1	9097.2	9352.3	9602.8	9824.5	9974.8	9997.6	9850.3
55°	7968.9	8019.1	8216.5	8542.9	8913.4	9329.5	9730.4	10103.9	10400.0	10551.9	10474.4
57.5°	6869.6	6959.2	7167.2	7549.8	8095.0	8717.6	9356.8	10020.4	10623.2	11025.6	11103.1
60°	5264.5	5370.8	5580.4	5987.3	6594.7	7337.3	8190.6	9171.6	10236.0	11141.0	11681.6
62.5°	3377.1	3477.3	3697.5	4051.3	4546.3	5351.1	6266.7	7431.4	8861.8	10290.7	11578.4
65°	1735.6	1790.3	1905.7	2119.8	2505.5	3106.8	3928.3	5089.9	6725.3	8488.3	10349.9
67.5°	1099.4	1110.0	1135.8	1166.2	1264.9	1472.9	1855.6	2579.9	3925.3	5764.1	7943.1
70°	950.6	950.6	938.4	933.9	946.0	974.9	1034.1	1202.6	1656.7	2736.3	4581.2
72.5°	870.1	861.0	839.7	823.0	820.0	820.0	832.1	857.9	930.8	1114.6	1793.3
75°	801.8	775.9	747.1	727.3	719.8	712.2	710.6	715.2	730.4	759.2	856.4
77.5°	718.2	684.8	651.4	631.7	622.6	611.9	602.8	592.2	584.6	593.7	636.2
80°	618.0	580.1	554.2	542.1	533.0	517.8	498.1	479.8	463.1	460.1	485.9
82.5°	498.1	454.0	455.5	460.1	443.4	422.1	400.9	381.1	352.3	337.1	352.3
85°	402.4	379.6	369.0	397.8	373.5	341.7	308.2	273.3	227.8	191.3	208.0
87.5°	156.4	156.4	233.8	359.9	323.4	264.2	226.3	192.8	120.0	92.6	94.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9
2.5°	3569.9	3573.0	3571.4	3569.9	3569.9	3568.4	3569.9	3569.9
5°	3597.3	3604.9	3604.9	3607.9	3607.9	3609.4	3610.9	3609.4
7.5°	3638.3	3651.9	3661.0	3671.7	3673.2	3674.7	3677.7	3674.7
10°	3679.3	3706.6	3726.3	3746.1	3755.2	3758.2	3761.3	3761.3
12.5°	3730.9	3768.8	3803.8	3838.7	3855.4	3864.5	3864.5	3870.6
15°	3815.9	3853.9	3894.9	3942.0	3970.8	3986.0	3990.5	3990.5
17.5°	3935.9	3969.3	4004.2	4049.8	4086.2	4105.9	4110.5	4109.0
20°	4075.6	4107.5	4127.2	4156.1	4187.9	4210.7	4216.8	4216.8
22.5°	4235.0	4253.2	4256.3	4265.4	4291.2	4321.6	4335.2	4338.3
25°	4411.2	4415.7	4403.6	4403.6	4420.3	4449.1	4462.8	4464.3
27.5°	4638.9	4616.2	4585.8	4575.2	4585.8	4619.2	4635.9	4642.0
30°	4922.9	4868.2	4798.4	4760.4	4754.3	4798.4	4828.7	4833.3
32.5°	5247.8	5168.9	5076.3	4998.8	4979.1	5006.4	5042.8	5041.3
35°	5633.5	5539.4	5427.0	5328.3	5282.8	5310.1	5361.7	5367.8
37.5°	6078.4	5955.4	5826.4	5701.9	5630.5	5638.1	5692.8	5711.0
40°	6575.0	6415.5	6253.1	6086.0	5984.3	5964.6	6031.4	6042.0
42.5°	7106.5	6901.5	6696.5	6490.0	6359.4	6329.0	6406.4	6401.9
45°	7672.8	7411.7	7171.7	6944.0	6789.1	6743.5	6807.3	6807.3
47.5°	8281.7	7959.8	7674.4	7416.2	7247.7	7182.4	7243.1	7247.7
50°	8927.1	8585.4	8249.9	7962.9	7760.9	7677.4	7756.4	7768.5
52.5°	9569.4	9236.9	8898.2	8570.3	8325.8	8224.0	8315.2	8354.6
55°	10220.8	9894.4	9570.9	9250.5	8960.5	8840.5	8937.7	8987.8
57.5°	10908.7	10606.5	10298.3	9974.8	9695.4	9508.7	9611.9	9678.7
60°	11715.0	11456.9	11136.5	10779.6	10497.2	10307.4	10366.6	10425.8
62.5°	12352.8	12453.0	12181.2	11768.2	11405.2	11162.3	11220.0	11282.3
65°	12044.5	13072.5	13314.0	12896.4	12393.8	12015.7	11991.4	12023.3
67.5°	10067.5	12064.3	13520.5	13918.3	13497.7	12972.3	12875.1	12922.2
70°	6734.4	9221.7	11790.9	13704.2	14212.9	14009.4	13913.8	13942.6
72.5°	3234.3	5370.8	7999.3	10542.8	12091.6	12802.2	13030.0	13140.9
75°	1182.9	2131.9	3855.4	5809.7	7013.8	8119.3	8840.5	9135.1
77.5°	713.7	861.0	1231.5	1854.1	2100.0	2350.6	2253.4	2302.0
80°	528.4	596.8	675.7	759.2	786.6	786.6	756.2	731.9
82.5°	370.5	414.5	452.5	498.1	510.2	487.4	400.9	318.9
85°	238.4	258.1	274.8	303.7	296.1	282.4	189.8	168.6
87.5°	109.3	124.5	130.6	144.3	138.2	132.1	94.1	79.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)