

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: P191816

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191816
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48764 lumens
Efficiency: N/A
Efficacy: 109.6 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

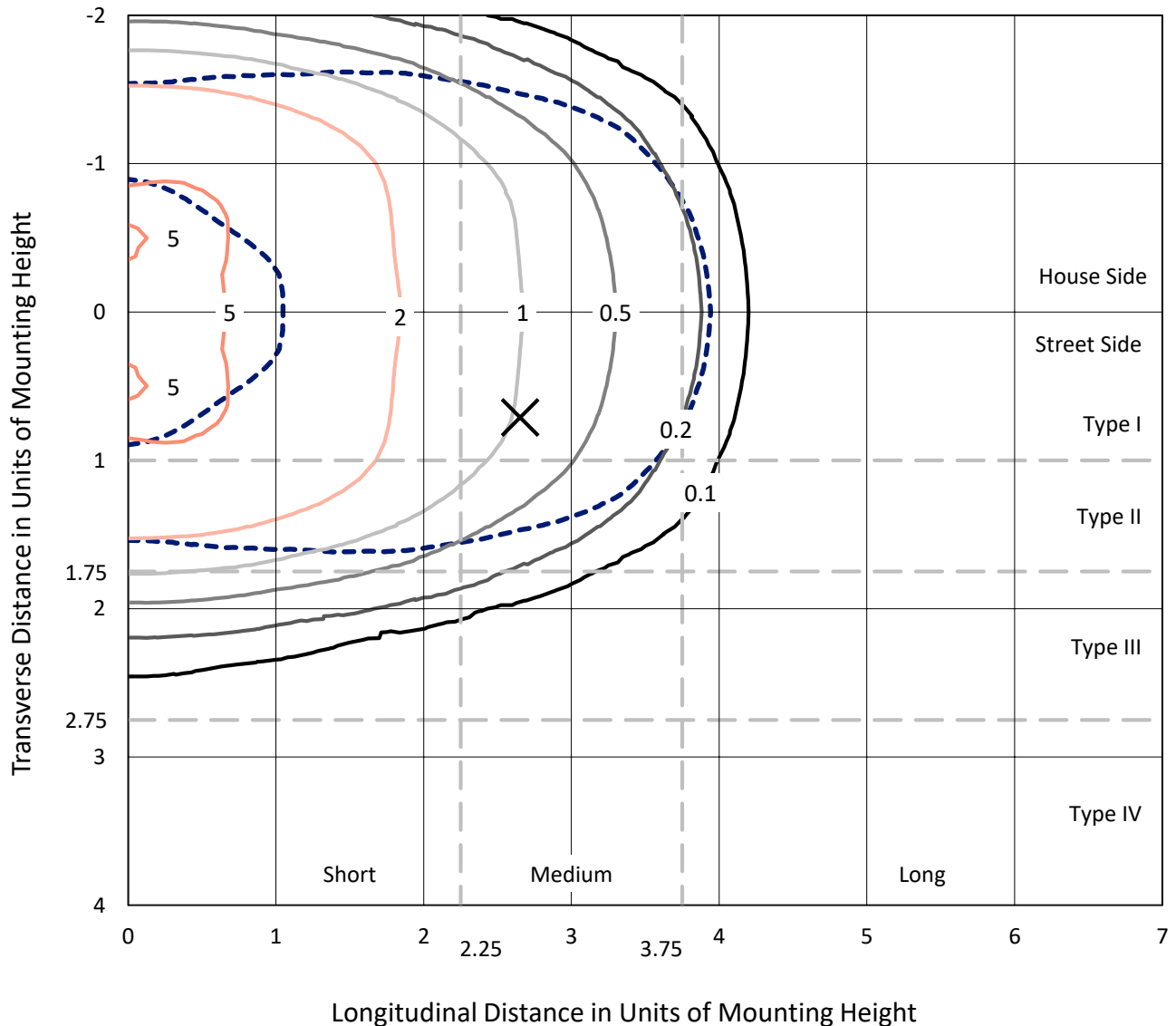
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

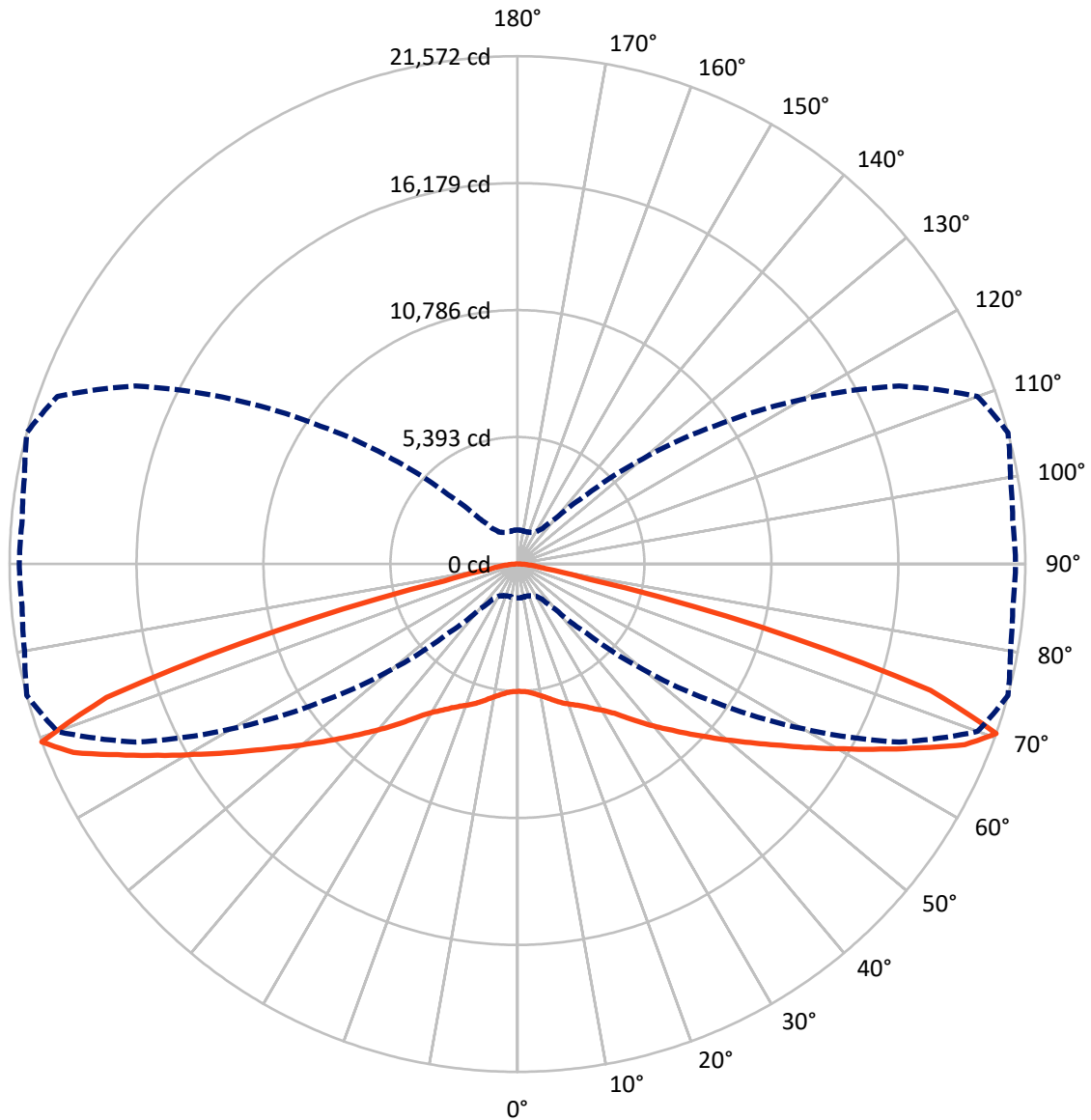
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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
House Side	Lumens	24382.0	0.0	24382.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24382.0	0.0	24382.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48764.0	0.0	48764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.8	1.1
10°-20°	1611.9	3.3
20°-30°	3033.8	6.2
30°-40°	5372.3	11.0
40°-50°	8984.3	18.4
50°-60°	12519.6	25.7
60°-70°	11609.9	23.8
70°-80°	4626.9	9.5
80°-90°	486.4	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°	48764.0	100.0
0°-180°	48764.0	100.0



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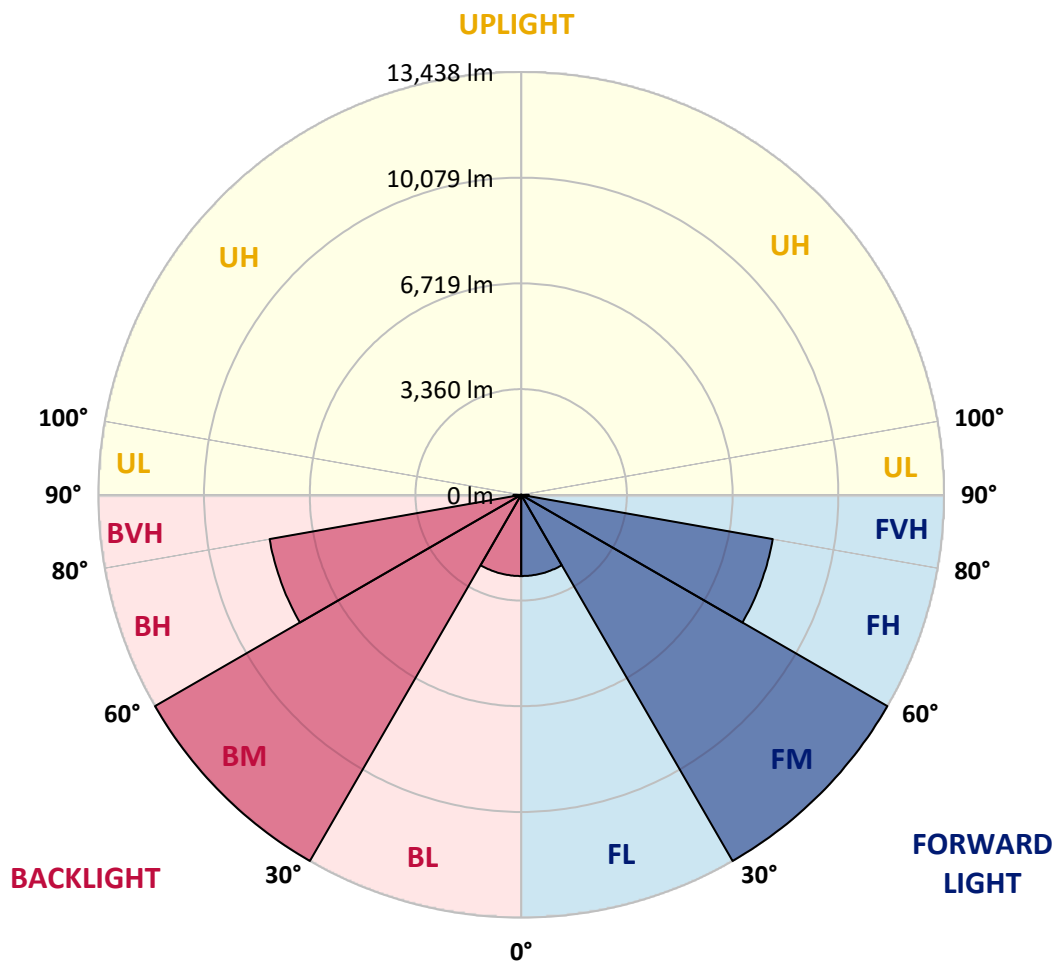
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2582.3	5.3			
FM	(30°-60°)	13438.1	27.6			
FH	(60°-80°)	8118.4	16.6			G4/12000
FVH	(80°-90°)	243.2	0.5			G3/500
BL	(0°-30°)	2582.3	5.3	B4/5000		
BM	(30°-60°)	13438.1	27.6	B5		
BH	(60°-80°)	8118.4	16.6	B5		G5
BVH	(80°-90°)	243.2	0.5			G3/500
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°	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1
2.5°	5399.8	5395.2	5399.8	5397.5	5402.1	5402.1	5406.8	5416.0	5416.0	5422.9	5420.6
5°	5346.8	5344.5	5351.4	5358.4	5365.3	5379.1	5392.9	5413.7	5429.8	5441.3	5452.9
7.5°	5243.1	5243.1	5252.3	5268.5	5284.6	5314.6	5346.8	5388.3	5429.8	5464.4	5494.3
10°	5157.9	5162.5	5174.0	5201.6	5229.3	5275.4	5319.2	5379.1	5436.7	5494.3	5540.4
12.5°	5107.2	5114.1	5134.8	5176.3	5222.4	5284.6	5351.4	5427.5	5492.0	5561.2	5607.3
15°	5123.3	5127.9	5157.9	5208.6	5268.5	5346.8	5436.7	5526.6	5602.7	5676.4	5738.6
17.5°	5213.2	5220.1	5254.7	5312.3	5374.5	5466.7	5563.5	5664.9	5759.4	5842.3	5918.4
20°	5374.5	5381.4	5425.2	5487.4	5561.2	5655.7	5752.5	5858.5	5964.5	6052.1	6137.3
22.5°	5602.7	5614.2	5655.7	5717.9	5800.9	5902.3	6017.5	6130.4	6231.8	6312.5	6388.5
25°	5902.3	5927.6	5966.8	6035.9	6123.5	6215.7	6340.2	6455.4	6552.2	6628.2	6683.5
27.5°	6326.3	6360.9	6390.9	6457.7	6543.0	6630.5	6755.0	6856.4	6948.6	7022.3	7063.8
30°	6888.7	6923.2	6953.2	7017.7	7096.1	7179.1	7296.6	7386.5	7444.1	7501.7	7499.4
32.5°	7570.8	7607.7	7619.2	7688.4	7769.0	7858.9	7964.9	8015.6	8061.7	8068.7	8027.2
35°	8333.7	8352.1	8398.2	8490.4	8582.6	8656.3	8757.8	8783.1	8783.1	8748.5	8656.3
37.5°	9170.3	9181.8	9246.3	9350.1	9444.5	9520.6	9589.7	9640.4	9615.1	9541.3	9386.9
40°	10087.5	10108.3	10200.5	10292.7	10398.7	10470.1	10543.9	10553.1	10527.7	10419.4	10209.7
42.5°	10963.3	10981.8	11073.9	11219.1	11357.4	11456.5	11525.7	11539.5	11458.8	11359.7	11099.3
45°	11716.9	11765.3	11885.2	12055.7	12256.2	12396.8	12491.3	12530.5	12459.1	12330.0	12028.1
47.5°	12313.9	12362.3	12532.8	12735.6	12984.5	13212.7	13369.4	13452.4	13433.9	13337.1	13007.6
50°	12751.7	12797.8	12982.2	13231.1	13521.5	13805.0	14072.3	14270.5	14339.7	14295.9	13994.0
52.5°	12802.5	12878.5	13095.1	13429.3	13807.3	14194.5	14574.7	14911.2	15139.4	15174.0	14950.4
55°	12094.9	12171.0	12470.6	12966.1	13528.4	14159.9	14768.3	15335.3	15784.7	16015.2	15897.6
57.5°	10426.3	10562.3	10878.0	11458.8	12286.2	13231.1	14201.4	15208.5	16123.5	16734.2	16851.8
60°	7990.3	8151.6	8469.7	9087.3	10009.2	11136.2	12431.4	13920.2	15535.8	16909.4	17729.8
62.5°	5125.6	5277.7	5611.9	6148.9	6900.2	8121.7	9511.4	11279.1	13450.1	15618.8	17573.1
65°	2634.2	2717.2	2892.4	3217.3	3802.7	4715.4	5962.2	7725.3	10207.4	12883.1	15708.6
67.5°	1668.6	1684.7	1723.9	1770.0	1919.8	2235.5	2816.3	3915.6	5957.6	8748.5	12055.7
70°	1442.7	1442.7	1424.3	1417.4	1435.8	1479.6	1569.5	1825.3	2514.4	4153.0	6953.2
72.5°	1320.6	1306.7	1274.5	1249.1	1244.5	1244.5	1263.0	1302.1	1412.8	1691.6	2721.8
75°	1216.9	1177.7	1133.9	1103.9	1092.4	1080.9	1078.6	1085.5	1108.5	1152.3	1299.8
77.5°	1090.1	1039.4	988.7	958.7	944.9	928.8	915.0	898.8	887.3	901.1	965.7
80°	938.0	880.4	841.2	822.8	808.9	785.9	755.9	728.3	702.9	698.3	737.5
82.5°	755.9	689.1	691.4	698.3	673.0	640.7	608.4	578.5	534.7	511.6	534.7
85°	610.7	576.2	560.0	603.8	566.9	518.6	467.8	414.8	345.7	290.4	315.7
87.5°	237.4	237.4	354.9	546.2	490.9	401.0	343.4	292.7	182.1	140.6	142.9
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°	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1	5409.1
2.5°	5418.3	5422.9	5420.6	5418.3	5418.3	5416.0	5418.3	5418.3
5°	5459.8	5471.3	5471.3	5475.9	5475.9	5478.2	5480.5	5478.2
7.5°	5522.0	5542.7	5556.6	5572.7	5575.0	5577.3	5581.9	5577.3
10°	5584.2	5625.7	5655.7	5685.6	5699.5	5704.1	5708.7	5708.7
12.5°	5662.6	5720.2	5773.2	5826.2	5851.6	5865.4	5865.4	5874.6
15°	5791.6	5849.3	5911.5	5982.9	6026.7	6049.8	6056.7	6056.7
17.5°	5973.7	6024.4	6077.4	6146.6	6201.9	6231.8	6238.7	6236.4
20°	6185.7	6234.1	6264.1	6307.9	6356.3	6390.9	6400.1	6400.1
22.5°	6427.7	6455.4	6460.0	6473.8	6513.0	6559.1	6579.8	6584.4
25°	6695.1	6702.0	6683.5	6683.5	6708.9	6752.7	6773.4	6775.7
27.5°	7040.8	7006.2	6960.1	6944.0	6960.1	7010.8	7036.2	7045.4
30°	7471.7	7388.8	7282.8	7225.1	7215.9	7282.8	7328.9	7335.8
32.5°	7964.9	7845.1	7704.5	7587.0	7557.0	7598.5	7653.8	7651.5
35°	8550.3	8407.4	8236.9	8087.1	8018.0	8059.4	8137.8	8147.0
37.5°	9225.6	9038.9	8843.0	8654.0	8545.7	8557.2	8640.2	8667.9
40°	9979.2	9737.2	9490.6	9237.1	9082.7	9052.7	9154.2	9170.3
42.5°	10785.9	10474.7	10163.6	9850.2	9652.0	9605.9	9723.4	9716.5
45°	11645.5	11249.1	10885.0	10539.3	10304.2	10235.0	10331.8	10331.8
47.5°	12569.7	12081.1	11647.8	11256.0	11000.2	10901.1	10993.3	11000.2
50°	13549.2	13030.6	12521.3	12085.7	11779.2	11652.4	11772.3	11790.7
52.5°	14524.0	14019.3	13505.4	13007.6	12636.5	12482.1	12620.4	12680.3
55°	15512.7	15017.2	14526.3	14040.1	13599.9	13417.8	13565.3	13641.4
57.5°	16556.8	16098.1	15630.3	15139.4	14715.3	14431.9	14588.6	14690.0
60°	17780.5	17388.7	16902.5	16360.9	15932.2	15644.1	15734.0	15823.9
62.5°	18748.5	18900.6	18488.1	17861.2	17310.4	16941.6	17029.2	17123.7
65°	18280.7	19840.9	20207.4	19573.6	18810.7	18236.9	18200.0	18248.4
67.5°	15280.0	18310.6	20520.8	21124.6	20486.2	19688.8	19541.3	19612.8
70°	10221.2	13996.3	17895.8	20799.7	21571.7	21262.9	21117.7	21161.5
72.5°	4909.0	8151.6	12141.0	16001.3	18352.1	19430.7	19776.4	19944.6
75°	1795.3	3235.8	5851.6	8817.7	10645.3	12323.1	13417.8	13864.9
77.5°	1083.2	1306.7	1869.1	2814.0	3187.4	3567.6	3420.1	3493.9
80°	802.0	905.7	1025.6	1152.3	1193.8	1193.8	1147.7	1110.9
82.5°	562.3	629.2	686.8	755.9	774.4	739.8	608.4	484.0
85°	361.8	391.8	417.1	460.9	449.4	428.7	288.1	255.8
87.5°	165.9	189.0	198.2	218.9	209.7	200.5	142.9	119.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)