

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: P191025

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191025
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-07-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48294.5 lumens
Efficiency: N/A
Efficacy: 107.8 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

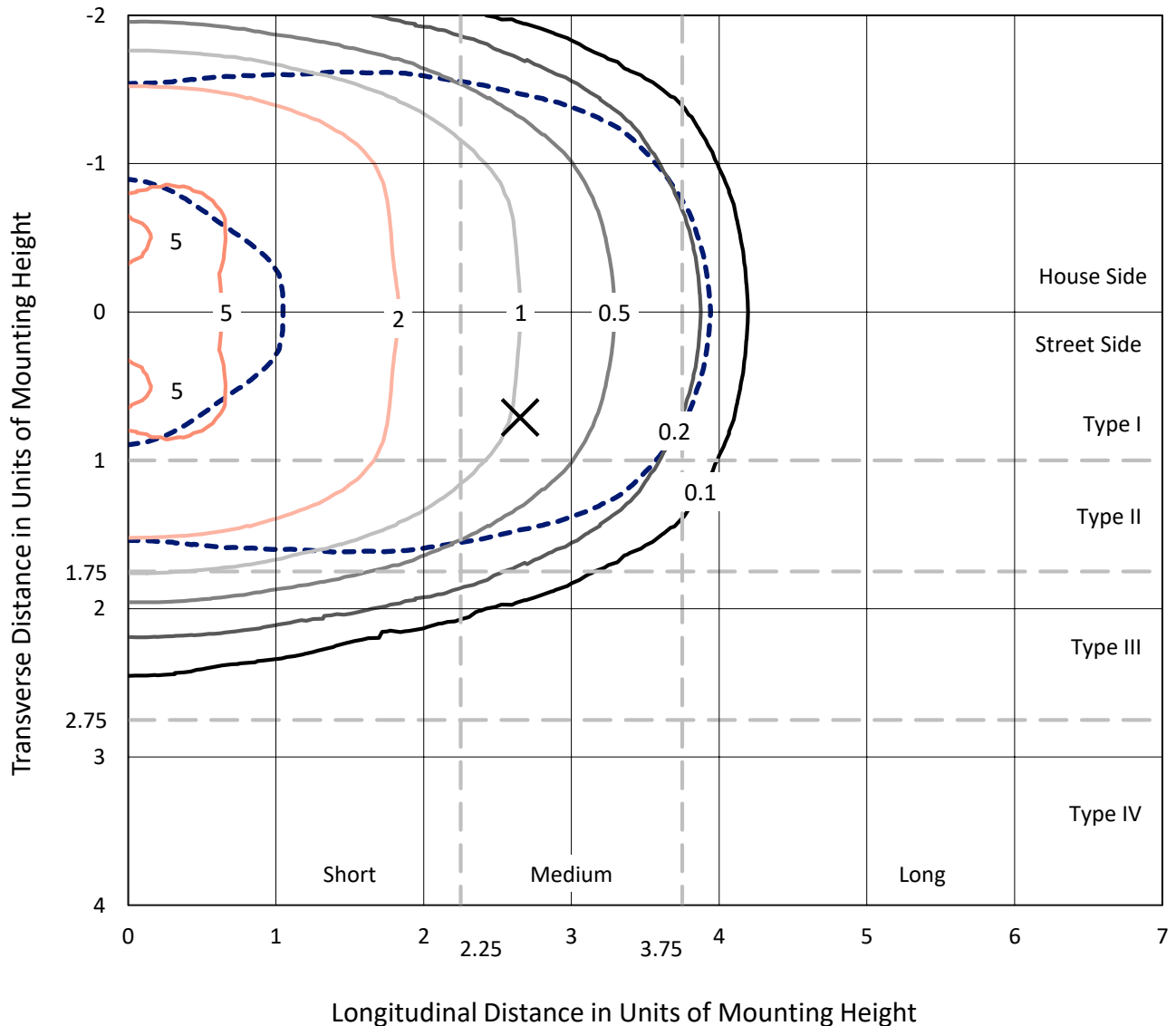
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

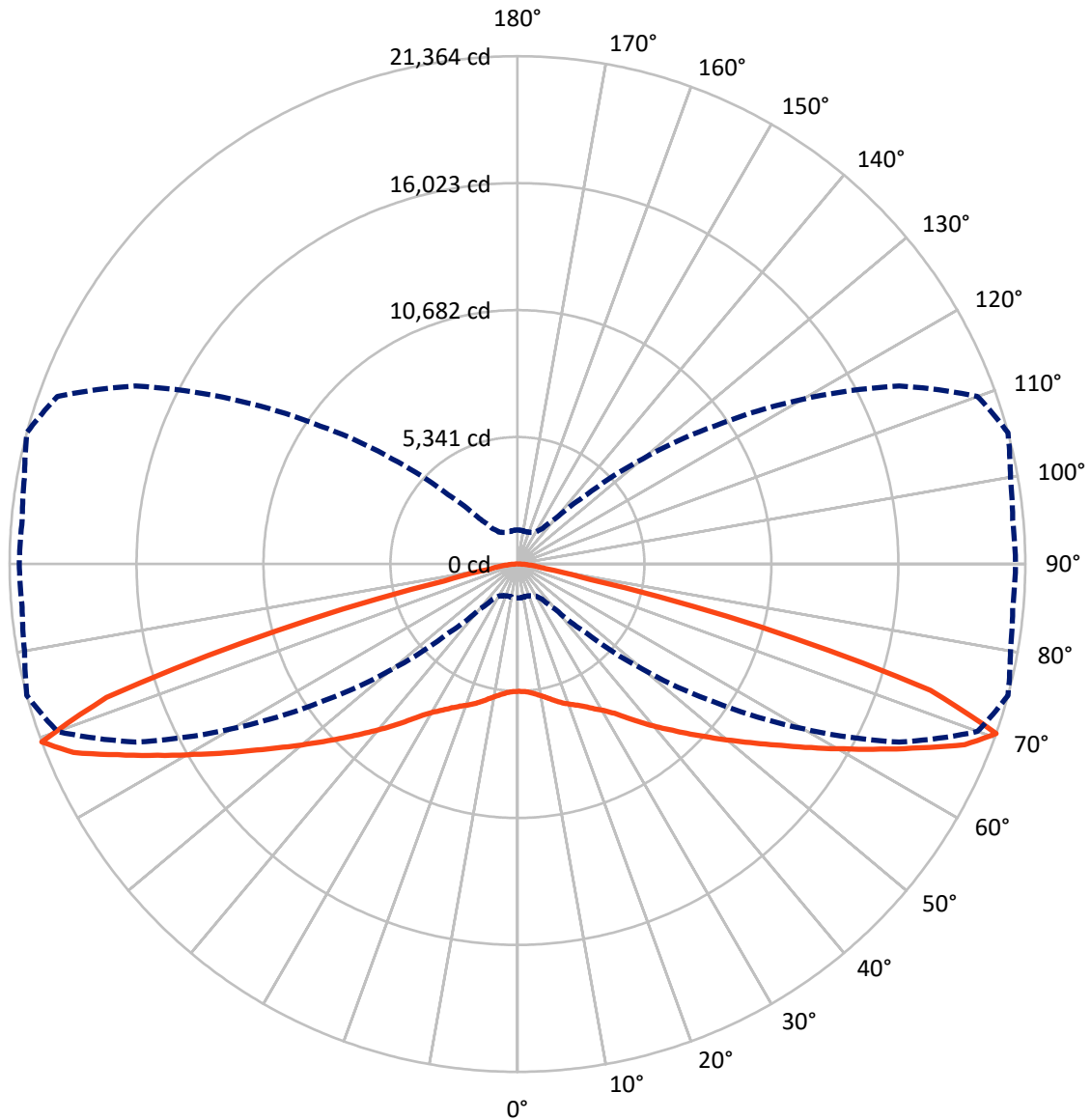
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	24147.3	0.0	24147.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24147.3	0.0	24147.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	48294.5	0.0	48294.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.8	1.1
10°-20°	1596.4	3.3
20°-30°	3004.6	6.2
30°-40°	5320.6	11.0
40°-50°	8897.8	18.4
50°-60°	12399.1	25.7
60°-70°	11498.2	23.8
70°-80°	4582.4	9.5
80°-90°	481.7	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°	48294.5	100.0
0°-180°	48294.5	100.0



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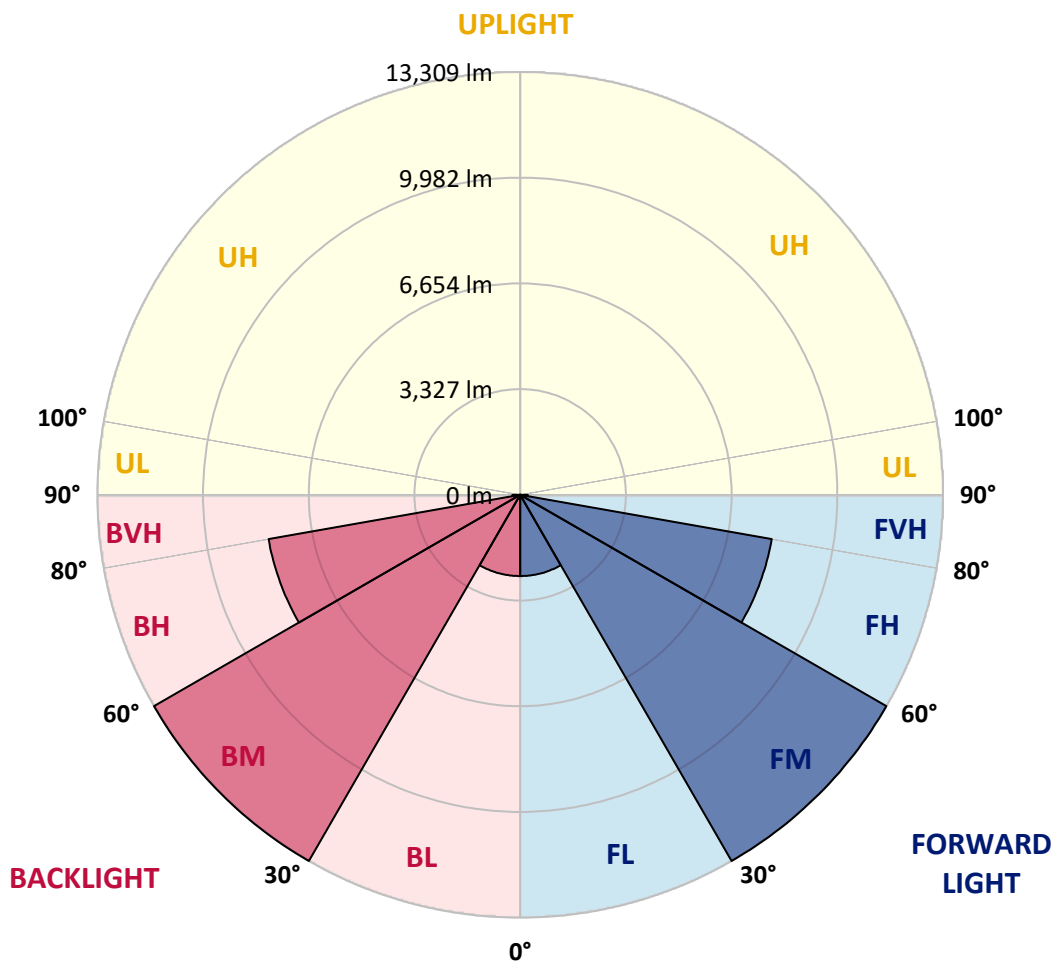
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2557.4	5.3			
FM	(30°-60°)	13308.8	27.6			
FH	(60°-80°)	8040.3	16.6			G4/12000
FVH	(80°-90°)	240.8	0.5			G3/500
BL	(0°-30°)	2557.4	5.3	B4/5000		
BM	(30°-60°)	13308.8	27.6	B5		
BH	(60°-80°)	8040.3	16.6	B5		G5
BVH	(80°-90°)	240.8	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°	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0
2.5°	5347.9	5343.3	5347.9	5345.5	5350.1	5350.1	5354.7	5363.8	5363.8	5370.7	5368.4
5°	5295.4	5293.1	5299.9	5306.8	5313.6	5327.3	5341.0	5361.6	5377.6	5388.9	5400.4
7.5°	5192.6	5192.6	5201.8	5217.8	5233.7	5263.4	5295.4	5336.4	5377.6	5411.8	5441.5
10°	5108.2	5112.8	5124.2	5151.6	5179.0	5224.6	5268.0	5327.3	5384.4	5441.5	5487.1
12.5°	5058.0	5064.8	5085.4	5126.4	5172.1	5233.7	5299.9	5375.3	5439.1	5507.7	5553.3
15°	5073.9	5078.5	5108.2	5158.4	5217.8	5295.4	5384.4	5473.4	5548.7	5621.7	5683.4
17.5°	5162.9	5169.8	5204.1	5261.1	5322.7	5414.1	5509.9	5610.4	5704.0	5786.1	5861.4
20°	5322.7	5329.6	5372.9	5434.6	5507.7	5601.2	5697.1	5802.1	5907.0	5993.8	6078.3
22.5°	5548.7	5560.1	5601.2	5662.9	5745.0	5845.4	5959.6	6071.4	6171.9	6251.8	6327.1
25°	5845.4	5870.5	5909.4	5977.8	6064.6	6155.8	6279.1	6393.2	6489.1	6564.4	6619.2
27.5°	6265.4	6299.6	6329.3	6395.5	6480.0	6566.7	6690.0	6790.3	6881.7	6954.7	6995.9
30°	6822.4	6856.5	6886.3	6950.1	7027.8	7109.9	7226.3	7315.3	7372.4	7429.5	7427.2
32.5°	7497.9	7534.4	7545.9	7614.3	7694.2	7783.2	7888.3	7938.5	7984.1	7991.0	7949.9
35°	8253.5	8271.7	8317.4	8408.7	8500.0	8573.0	8673.4	8698.6	8698.6	8664.3	8573.0
37.5°	9082.0	9093.4	9157.4	9260.1	9353.7	9428.9	9497.4	9547.6	9522.5	9449.5	9296.6
40°	9990.4	10011.0	10102.3	10193.6	10298.6	10369.3	10442.4	10451.5	10426.4	10319.1	10111.4
42.5°	10857.8	10876.0	10967.4	11111.1	11248.1	11346.3	11414.7	11428.4	11348.5	11250.3	10992.4
45°	11604.1	11652.1	11770.8	11939.7	12138.2	12277.5	12371.1	12409.8	12339.1	12211.3	11912.3
47.5°	12195.3	12243.3	12412.2	12613.0	12859.5	13085.5	13240.7	13322.8	13304.6	13208.8	12882.3
50°	12628.9	12674.7	12857.3	13103.7	13391.3	13672.0	13936.9	14133.1	14201.6	14158.3	13859.2
52.5°	12679.2	12754.6	12969.1	13300.0	13674.4	14057.8	14434.4	14767.6	14993.6	15027.9	14806.5
55°	11978.4	12053.8	12350.5	12841.2	13398.2	14023.5	14626.2	15187.6	15632.7	15861.0	15744.5
57.5°	10326.0	10460.6	10773.3	11348.5	12167.9	13103.7	14064.7	15062.1	15968.3	16573.1	16689.5
60°	7913.3	8073.1	8388.1	8999.8	9912.8	11028.9	12311.7	13786.2	15386.2	16746.6	17559.2
62.5°	5076.3	5226.9	5557.9	6089.6	6833.7	8043.5	9419.8	11170.5	13320.6	15468.3	17404.0
65°	2608.8	2691.1	2864.5	3186.4	3766.1	4670.0	5904.8	7650.9	10109.1	12759.1	15557.4
67.5°	1652.5	1668.5	1707.3	1752.9	1901.4	2214.0	2789.2	3877.9	5900.2	8664.3	11939.7
70°	1428.9	1428.9	1410.5	1403.7	1422.0	1465.4	1554.4	1807.8	2490.2	4113.1	6886.3
72.5°	1307.8	1294.1	1262.2	1237.2	1232.6	1232.6	1250.8	1289.6	1399.2	1675.4	2695.6
75°	1205.1	1166.4	1123.0	1093.3	1081.9	1070.5	1068.2	1075.0	1097.8	1141.2	1287.3
77.5°	1079.6	1029.4	979.2	949.5	935.8	919.8	906.1	890.2	878.7	892.4	956.4
80°	928.9	871.9	833.1	814.9	801.2	778.4	748.7	721.3	696.1	691.6	730.4
82.5°	748.7	682.5	684.8	691.6	666.5	634.5	602.6	572.9	529.6	506.7	529.6
85°	604.9	570.6	554.6	598.0	561.5	513.5	463.3	410.8	342.4	287.6	312.7
87.5°	235.1	235.1	351.5	540.9	486.2	397.1	340.1	289.9	180.3	139.2	141.5
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°	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0	5357.0
2.5°	5366.1	5370.7	5368.4	5366.1	5366.1	5363.8	5366.1	5366.1
5°	5407.2	5418.6	5418.6	5423.2	5423.2	5425.4	5427.8	5425.4
7.5°	5468.8	5489.4	5503.1	5519.0	5521.4	5523.6	5528.1	5523.6
10°	5530.5	5571.5	5601.2	5630.9	5644.5	5649.1	5653.7	5653.7
12.5°	5608.0	5665.1	5717.6	5770.2	5795.2	5808.9	5808.9	5818.0
15°	5735.9	5793.0	5854.6	5925.3	5968.7	5991.5	5998.4	5998.4
17.5°	5916.2	5966.5	6018.9	6087.4	6142.2	6171.9	6178.7	6176.4
20°	6126.1	6174.1	6203.8	6247.2	6295.1	6329.3	6338.4	6338.4
22.5°	6365.8	6393.2	6397.8	6411.4	6450.3	6495.9	6516.5	6521.0
25°	6630.7	6637.4	6619.2	6619.2	6644.3	6687.6	6708.2	6710.5
27.5°	6972.9	6938.8	6893.1	6877.1	6893.1	6943.3	6968.4	6977.5
30°	7399.8	7317.7	7212.6	7155.5	7146.4	7212.6	7258.3	7265.1
32.5°	7888.3	7769.6	7630.3	7514.0	7484.2	7525.3	7580.2	7577.8
35°	8468.0	8326.5	8157.6	8009.2	7940.8	7981.9	8059.4	8068.6
37.5°	9136.8	8951.9	8757.9	8570.7	8463.5	8474.8	8557.0	8584.4
40°	9883.1	9643.5	9399.3	9148.1	8995.3	8965.6	9066.0	9082.0
42.5°	10682.1	10373.8	10065.7	9755.4	9559.1	9513.4	9629.8	9623.0
45°	11533.4	11140.8	10780.2	10437.8	10205.0	10136.5	10232.4	10232.4
47.5°	12448.7	11964.7	11535.7	11147.6	10894.3	10796.1	10887.5	10894.3
50°	13418.8	12905.1	12400.7	11969.3	11665.7	11540.2	11658.9	11677.2
52.5°	14384.2	13884.3	13375.4	12882.3	12514.9	12362.0	12498.9	12558.3
55°	15363.4	14872.7	14386.5	13904.9	13468.9	13288.6	13434.7	13510.0
57.5°	16397.4	15943.1	15479.8	14993.6	14573.7	14292.9	14448.2	14548.5
60°	17609.4	17221.4	16739.8	16203.3	15778.8	15493.5	15582.5	15671.5
62.5°	18568.0	18718.7	18310.1	17689.3	17143.7	16778.5	16865.3	16958.9
65°	18104.7	19649.9	20012.8	19385.1	18629.7	18061.3	18024.8	18072.7
67.5°	15132.8	18134.4	20323.3	20921.3	20289.0	19499.3	19353.2	19423.9
70°	10122.8	13861.5	17723.4	20599.4	21364.0	21058.2	20914.4	20957.8
72.5°	4861.7	8073.1	12024.2	15847.2	18175.4	19243.6	19586.0	19752.6
75°	1778.1	3204.6	5795.2	8732.8	10542.8	12204.4	13288.6	13731.4
77.5°	1072.8	1294.1	1851.1	2786.9	3156.7	3533.3	3387.2	3460.2
80°	794.3	897.0	1015.7	1141.2	1182.3	1182.3	1136.7	1100.2
82.5°	556.9	623.1	680.2	748.7	766.9	732.6	602.6	479.4
85°	358.3	388.0	413.2	456.5	445.1	424.5	285.3	253.4
87.5°	164.4	187.2	196.3	216.9	207.7	198.6	141.5	118.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)