

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: P193566

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193566
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43651 lumens
Efficiency: N/A
Efficacy: 85.4 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): 511
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

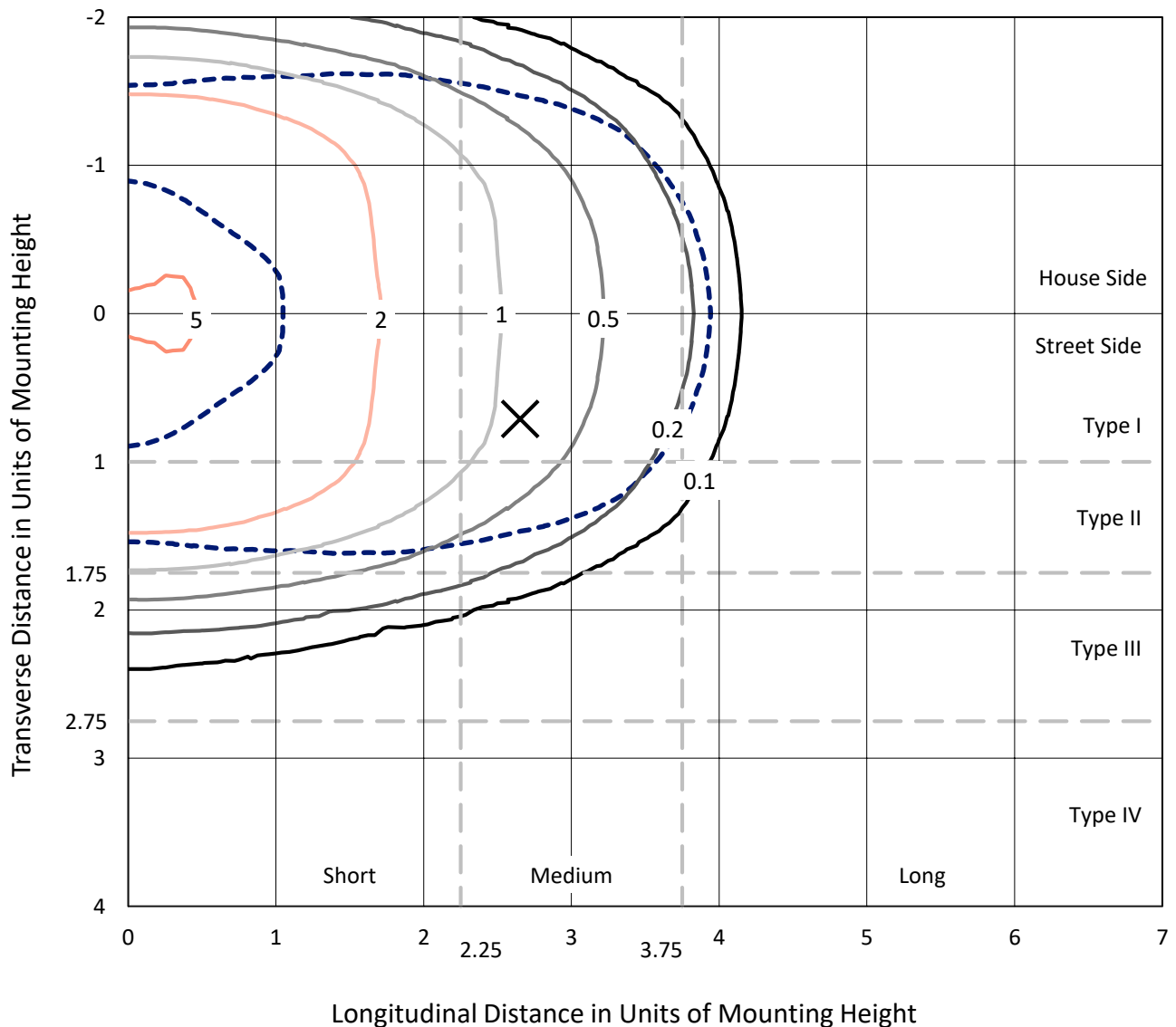


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

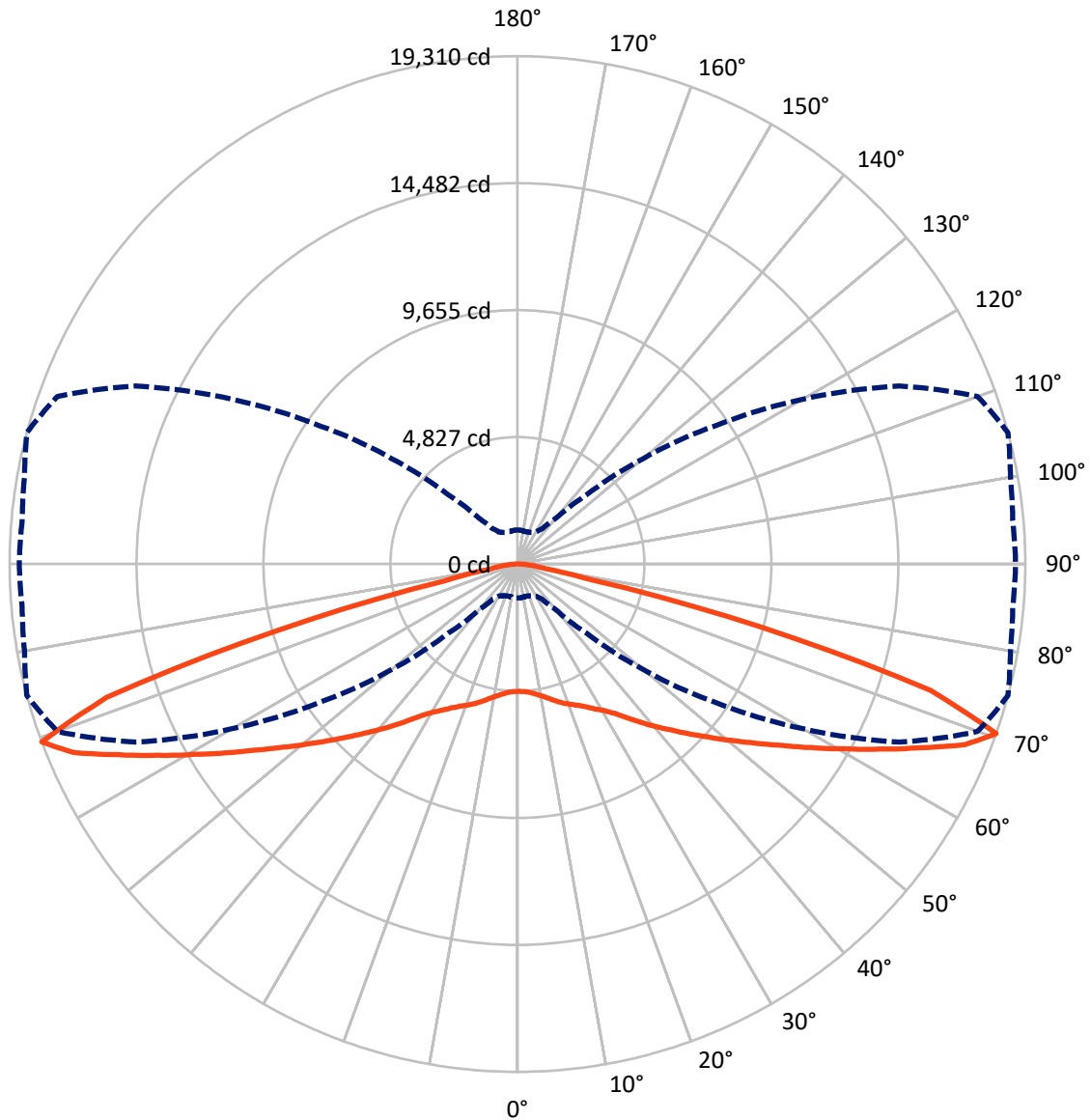


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	21825.5	0.0	21825.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21825.5	0.0	21825.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43651.0	0.0	43651.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.4	1.1
10°-20°	1442.9	3.3
20°-30°	2715.7	6.2
30°-40°	4809.0	11.0
40°-50°	8042.3	18.4
50°-60°	11206.9	25.7
60°-70°	10392.6	23.8
70°-80°	4141.8	9.5
80°-90°	435.4	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°	43651.0	100.0
0°-180°	43651.0	100.0



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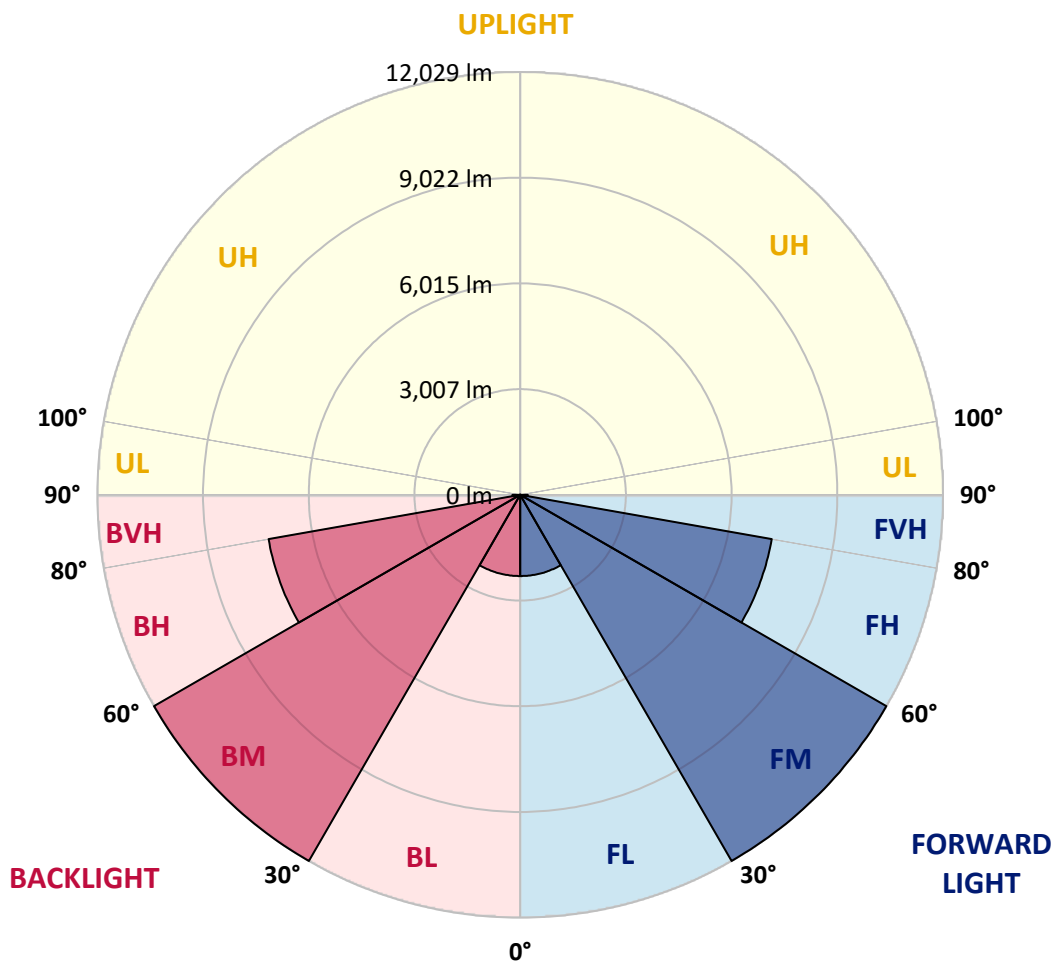
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2311.5	5.3			
FM	(30°-60°)	12029.1	27.6			
FH	(60°-80°)	7267.2	16.6			G3/7500
FVH	(80°-90°)	217.7	0.5			G2/225
BL	(0°-30°)	2311.5	5.3	B3/2500		
BM	(30°-60°)	12029.1	27.6	B5		
BH	(60°-80°)	7267.2	16.6	B5		G5
BVH	(80°-90°)	217.7	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°	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9
2.5°	4833.7	4829.5	4833.7	4831.6	4835.7	4835.7	4839.9	4848.1	4848.1	4854.3	4852.2
5°	4786.2	4784.1	4790.3	4796.5	4802.7	4815.1	4827.5	4846.0	4860.5	4870.8	4881.1
7.5°	4693.4	4693.4	4701.6	4716.1	4730.5	4757.3	4786.2	4823.3	4860.5	4891.4	4918.2
10°	4617.0	4621.2	4631.5	4656.2	4681.0	4722.3	4761.5	4815.1	4866.7	4918.2	4959.5
12.5°	4571.7	4577.8	4596.4	4633.5	4674.8	4730.5	4790.3	4858.4	4916.2	4978.1	5019.3
15°	4586.1	4590.2	4617.0	4662.4	4716.1	4786.2	4866.7	4947.1	5015.2	5081.2	5136.9
17.5°	4666.6	4672.7	4703.7	4755.3	4811.0	4893.5	4980.1	5070.9	5155.5	5229.8	5297.8
20°	4811.0	4817.2	4856.4	4912.1	4978.1	5062.7	5149.3	5244.2	5339.1	5417.5	5493.8
22.5°	5015.2	5025.5	5062.7	5118.4	5192.6	5283.4	5386.6	5487.6	5578.4	5650.6	5718.7
25°	5283.4	5306.1	5341.2	5403.1	5481.4	5564.0	5675.4	5778.5	5865.2	5933.3	5982.8
27.5°	5663.0	5693.9	5720.8	5780.6	5856.9	5935.3	6046.7	6137.5	6220.0	6286.0	6323.2
30°	6166.4	6197.3	6224.1	6281.9	6352.0	6426.3	6531.5	6612.0	6663.6	6715.1	6713.1
32.5°	6777.0	6810.0	6820.4	6882.2	6954.4	7034.9	7129.8	7175.2	7216.5	7222.6	7185.5
35°	7459.9	7476.4	7517.7	7600.2	7682.7	7748.7	7839.5	7862.2	7862.2	7831.2	7748.7
37.5°	8208.8	8219.1	8276.8	8369.7	8454.3	8522.3	8584.2	8629.6	8606.9	8540.9	8402.7
40°	9029.8	9048.4	9130.9	9213.5	9308.4	9372.3	9438.3	9446.6	9423.9	9326.9	9139.2
42.5°	9813.8	9830.3	9912.8	10042.8	10166.6	10255.3	10317.2	10329.6	10257.3	10168.6	9935.5
45°	10488.4	10531.7	10639.0	10791.7	10971.2	11097.0	11181.6	11216.7	11152.7	11037.2	10766.9
47.5°	11022.7	11066.1	11218.7	11400.3	11623.1	11827.3	11967.6	12041.9	12025.4	11938.7	11643.7
50°	11414.7	11456.0	11621.0	11843.8	12103.8	12357.5	12596.8	12774.2	12836.1	12796.9	12526.7
52.5°	11460.1	11528.2	11722.1	12021.2	12359.6	12706.2	13046.6	13347.8	13552.0	13582.9	13382.8
55°	10826.7	10894.8	11163.0	11606.6	12109.9	12675.2	13219.8	13727.3	14129.6	14335.9	14230.7
57.5°	9333.1	9454.8	9737.5	10257.3	10998.0	11843.8	12712.3	13613.9	14432.9	14979.6	15084.8
60°	7152.5	7296.9	7581.6	8134.5	8959.7	9968.5	11127.9	12460.7	13906.8	15136.4	15870.8
62.5°	4588.2	4724.3	5023.5	5504.1	6176.7	7270.1	8514.1	10096.4	12039.8	13981.1	15730.5
65°	2358.0	2432.3	2589.1	2880.0	3404.0	4220.9	5337.0	6915.3	9137.1	11532.3	14061.6
67.5°	1493.6	1508.1	1543.1	1584.4	1718.5	2001.1	2521.0	3505.1	5332.9	7831.2	10791.7
70°	1291.5	1291.5	1274.9	1268.8	1285.3	1324.5	1404.9	1633.9	2250.8	3717.6	6224.1
72.5°	1182.1	1169.7	1140.9	1118.2	1114.0	1114.0	1130.5	1165.6	1264.6	1514.3	2436.4
75°	1089.3	1054.2	1015.0	988.2	977.9	967.6	965.5	971.7	992.3	1031.5	1163.5
77.5°	975.8	930.4	885.0	858.2	845.8	831.4	819.0	804.6	794.3	806.6	864.4
80°	839.7	788.1	753.0	736.5	724.1	703.5	676.7	651.9	629.2	625.1	660.2
82.5°	676.7	616.8	618.9	625.1	602.4	573.5	544.6	517.8	478.6	458.0	478.6
85°	546.7	515.8	501.3	540.5	507.5	464.2	418.8	371.3	309.5	259.9	282.6
87.5°	212.5	212.5	317.7	488.9	439.4	359.0	307.4	262.0	163.0	125.8	127.9
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°	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9	4841.9
2.5°	4850.2	4854.3	4852.2	4850.2	4850.2	4848.1	4850.2	4850.2
5°	4887.3	4897.6	4897.6	4901.7	4901.7	4903.8	4905.9	4903.8
7.5°	4943.0	4961.6	4973.9	4988.4	4990.5	4992.5	4996.6	4992.5
10°	4998.7	5035.8	5062.7	5089.5	5101.9	5106.0	5110.1	5110.1
12.5°	5068.8	5120.4	5167.9	5215.3	5238.0	5250.4	5250.4	5258.6
15°	5184.4	5236.0	5291.7	5355.6	5394.8	5415.4	5421.6	5421.6
17.5°	5347.4	5392.7	5440.2	5502.1	5551.6	5578.4	5584.6	5582.5
20°	5537.2	5580.5	5607.3	5646.5	5689.8	5720.8	5729.0	5729.0
22.5°	5753.8	5778.5	5782.7	5795.0	5830.1	5871.4	5889.9	5894.1
25°	5993.1	5999.3	5982.8	5982.8	6005.5	6044.7	6063.2	6065.3
27.5°	6302.5	6271.6	6230.3	6215.9	6230.3	6275.7	6298.4	6306.7
30°	6688.3	6614.0	6519.2	6467.6	6459.3	6519.2	6560.4	6566.6
32.5°	7129.8	7022.5	6896.7	6791.5	6764.6	6801.8	6851.3	6849.2
35°	7653.8	7525.9	7373.2	7239.1	7177.3	7214.4	7284.5	7292.8
37.5°	8258.3	8091.2	7915.8	7746.6	7649.7	7660.0	7734.3	7759.0
40°	8932.9	8716.3	8495.5	8268.6	8130.4	8103.6	8194.3	8208.8
42.5°	9654.9	9376.4	9097.9	8817.4	8639.9	8598.7	8703.9	8697.7
45°	10424.5	10069.6	9743.7	9434.2	9223.8	9161.9	9248.5	9248.5
47.5°	11251.7	10814.4	10426.5	10075.8	9846.8	9758.1	9840.6	9846.8
50°	12128.5	11664.3	11208.4	10818.5	10544.1	10430.6	10537.9	10554.4
52.5°	13001.2	12549.4	12089.3	11643.7	11311.6	11173.3	11297.1	11350.7
55°	13886.2	13442.7	13003.2	12567.9	12173.9	12010.9	12142.9	12211.0
57.5°	14820.8	14410.2	13991.4	13552.0	13172.4	12918.6	13058.9	13149.7
60°	15916.2	15565.5	15130.2	14645.4	14261.7	14003.8	14084.3	14164.7
62.5°	16782.7	16918.8	16549.6	15988.4	15495.4	15165.3	15243.7	15328.3
65°	16363.9	17760.6	18088.6	17521.2	16838.4	16324.7	16291.7	16335.0
67.5°	13677.8	16390.7	18369.1	18909.7	18338.2	17624.4	17492.4	17556.3
70°	9149.5	12528.7	16019.4	18618.8	19309.9	19033.4	18903.5	18942.7
72.5°	4394.2	7296.9	10868.0	14323.6	16427.8	17393.3	17702.8	17853.4
75°	1607.1	2896.5	5238.0	7893.1	9529.1	11031.0	12010.9	12411.1
77.5°	969.6	1169.7	1673.1	2519.0	2853.2	3193.6	3061.5	3127.5
80°	717.9	810.8	918.0	1031.5	1068.6	1068.6	1027.4	994.4
82.5°	503.4	563.2	614.8	676.7	693.2	662.2	544.6	433.2
85°	323.9	350.7	373.4	412.6	402.3	383.7	257.9	229.0
87.5°	148.5	169.2	177.4	196.0	187.7	179.5	127.9	107.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)