

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: P191007

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191007
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-09-LED-E1-RW-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44957.7 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 374
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

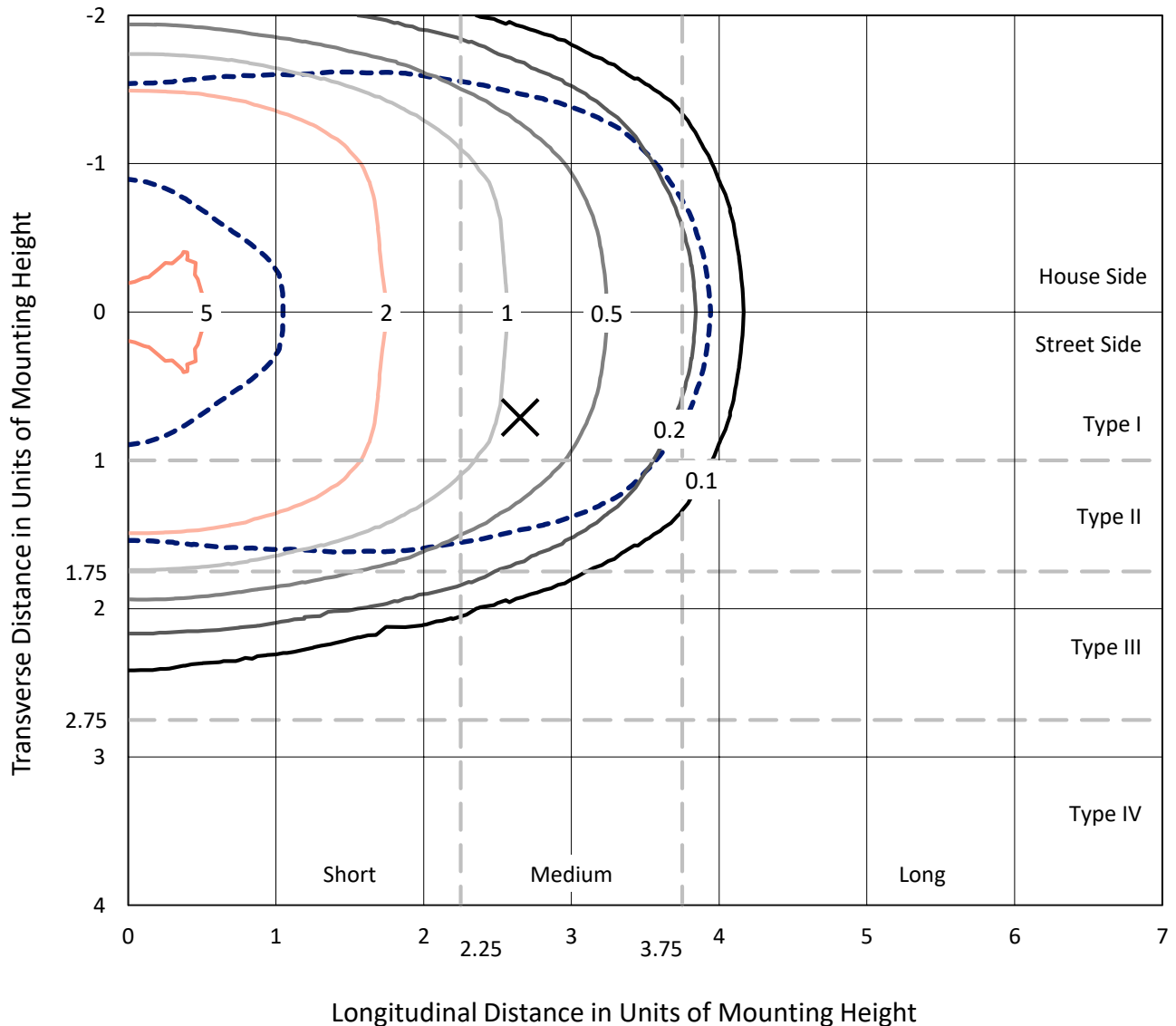


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

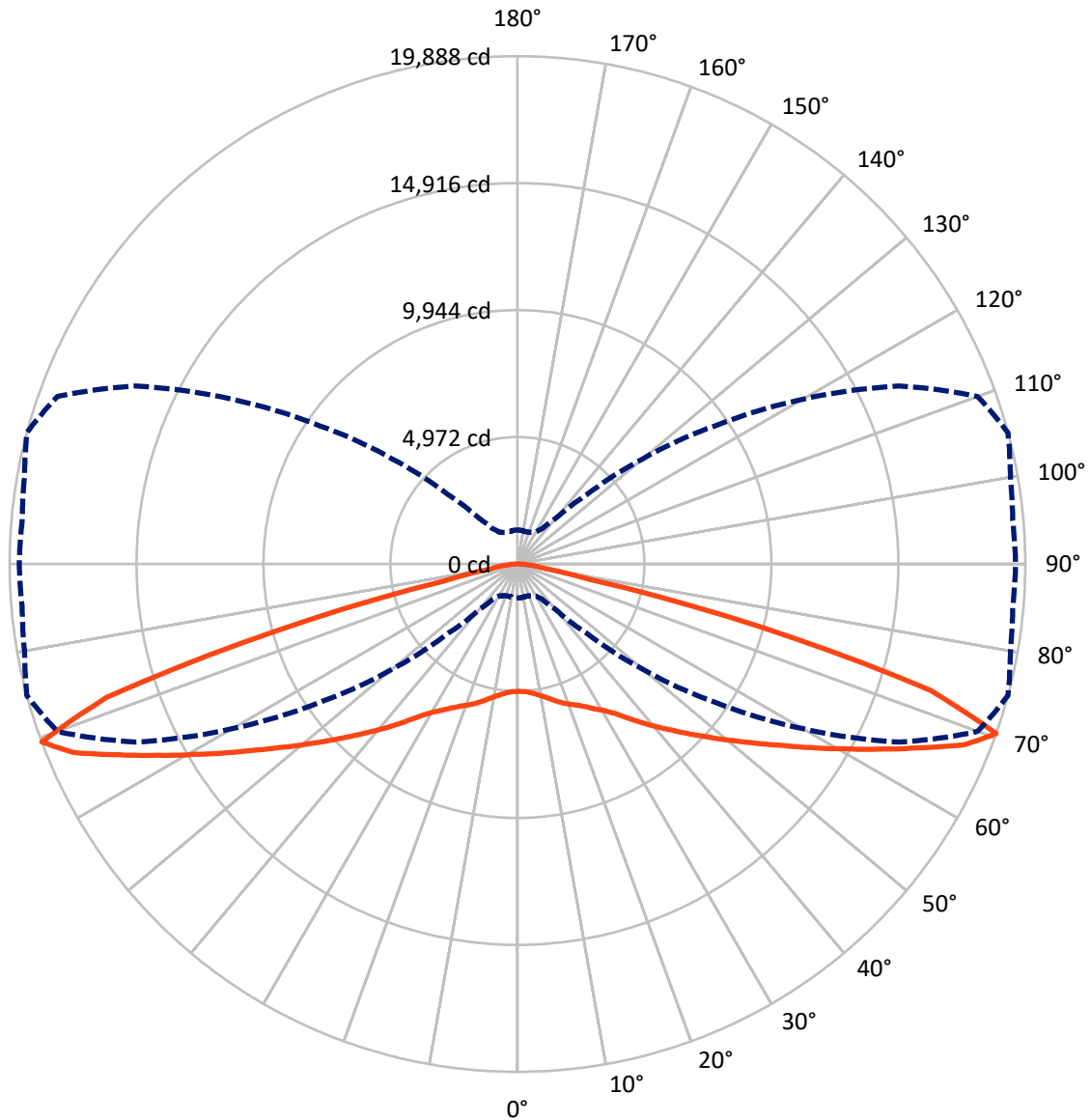


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - Full Cutoff

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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	22478.8	0.0	22478.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22478.8	0.0	22478.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	44957.7	0.0	44957.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	1.1
10°-20°	1486.1	3.3
20°-30°	2797.0	6.2
30°-40°	4953.0	11.0
40°-50°	8283.0	18.4
50°-60°	11542.4	25.7
60°-70°	10703.7	23.8
70°-80°	4265.7	9.5
80°-90°	448.4	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°	44957.7	100.0
0°-180°	44957.7	100.0



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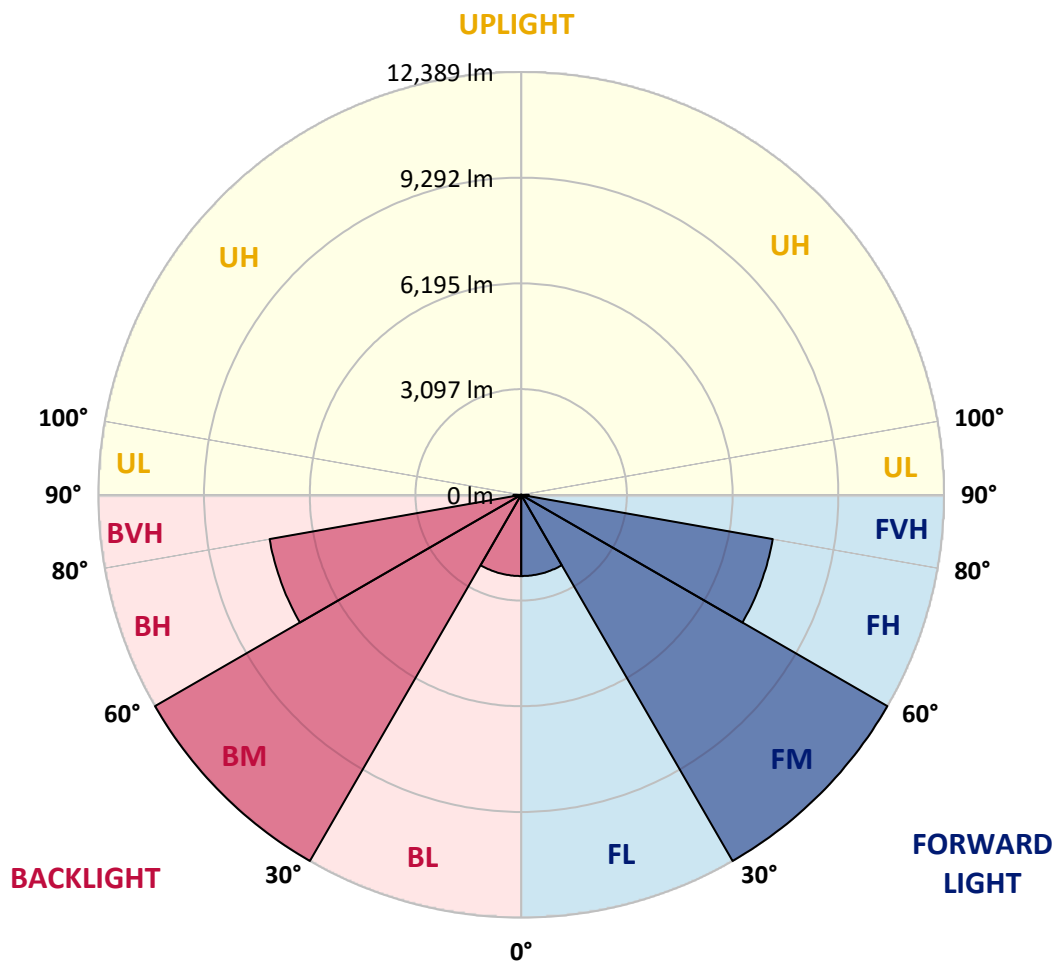
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2380.7	5.3			
FM	(30°-60°)	12389.2	27.6			
FH	(60°-80°)	7484.7	16.6			G3/7500
FVH	(80°-90°)	224.2	0.5			G2/225
BL	(0°-30°)	2380.7	5.3	B3/2500		
BM	(30°-60°)	12389.2	27.6	B5		
BH	(60°-80°)	7484.7	16.6	B5		G5
BVH	(80°-90°)	224.2	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°	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9
2.5°	4978.4	4974.1	4978.4	4976.2	4980.4	4980.4	4984.7	4993.2	4993.2	4999.6	4997.5
5°	4929.5	4927.3	4933.7	4940.1	4946.5	4959.3	4972.0	4991.1	5006.0	5016.6	5027.2
7.5°	4833.9	4833.9	4842.3	4857.3	4872.1	4899.7	4929.5	4967.8	5006.0	5037.8	5065.4
10°	4755.3	4759.5	4770.1	4795.6	4821.2	4863.6	4904.0	4959.3	5012.4	5065.4	5108.0
12.5°	4708.5	4714.9	4734.0	4772.3	4814.7	4872.1	4933.7	5003.9	5063.3	5127.1	5169.6
15°	4723.4	4727.7	4755.3	4802.0	4857.3	4929.5	5012.4	5095.2	5165.3	5233.3	5290.7
17.5°	4806.2	4812.6	4844.5	4897.6	4955.0	5040.0	5129.2	5222.7	5309.8	5386.3	5456.4
20°	4955.0	4961.3	5001.7	5059.1	5127.1	5214.2	5303.5	5401.2	5499.0	5579.7	5658.2
22.5°	5165.3	5175.9	5214.2	5271.6	5348.1	5441.6	5547.8	5651.9	5745.4	5819.8	5889.8
25°	5441.6	5464.9	5501.0	5564.8	5645.6	5730.6	5845.2	5951.5	6040.7	6110.9	6161.8
27.5°	5832.6	5864.4	5892.0	5953.7	6032.2	6112.9	6227.7	6321.2	6406.2	6474.2	6512.4
30°	6351.0	6382.8	6410.4	6470.0	6542.2	6618.7	6727.0	6809.9	6863.1	6916.2	6914.0
32.5°	6979.9	7013.9	7024.5	7088.2	7162.6	7245.5	7343.3	7390.0	7432.5	7438.8	7400.6
35°	7683.2	7700.2	7742.7	7827.7	7912.6	7980.7	8074.2	8097.6	8097.6	8065.7	7980.7
37.5°	8454.5	8465.1	8524.7	8620.2	8707.4	8777.4	8841.2	8887.9	8864.6	8796.6	8654.3
40°	9300.2	9319.3	9404.3	9489.3	9587.0	9652.9	9720.9	9729.4	9706.0	9606.1	9412.8
42.5°	10107.6	10124.6	10209.6	10343.5	10470.9	10562.3	10626.0	10638.8	10564.4	10473.1	10232.9
45°	10802.4	10847.0	10957.4	11114.7	11299.6	11429.2	11516.3	11552.4	11486.5	11367.5	11089.2
47.5°	11352.7	11397.3	11554.5	11741.5	11971.0	12181.3	12325.8	12402.4	12385.4	12296.1	11992.3
50°	11756.4	11798.9	11968.8	12198.4	12466.1	12727.5	12973.9	13156.6	13220.4	13180.0	12901.7
52.5°	11803.1	11873.3	12073.0	12381.1	12729.5	13086.5	13437.1	13747.3	13957.7	13989.6	13783.4
55°	11150.9	11221.0	11497.1	11954.0	12472.4	13054.6	13615.6	14138.3	14552.6	14765.1	14656.7
57.5°	9612.5	9737.9	10028.9	10564.4	11327.2	12198.4	13092.8	14021.4	14864.9	15428.0	15536.4
60°	7366.6	7515.3	7808.6	8378.0	9227.9	10266.9	11461.0	12833.6	14323.2	15589.5	16345.9
62.5°	4725.5	4865.8	5173.9	5668.9	6361.6	7487.7	8768.9	10398.7	12400.2	14399.6	16201.4
65°	2428.6	2505.1	2666.6	2966.1	3505.9	4347.3	5496.8	7122.3	9410.6	11877.5	14482.5
67.5°	1538.3	1553.2	1589.4	1631.8	1769.9	2061.0	2596.5	3610.0	5492.5	8065.7	11114.7
70°	1330.1	1330.1	1313.2	1306.7	1323.7	1364.1	1447.0	1682.9	2318.1	3828.8	6410.4
72.5°	1217.5	1204.7	1175.0	1151.6	1147.3	1147.3	1164.4	1200.5	1302.5	1559.6	2509.4
75°	1121.9	1085.8	1045.4	1017.7	1007.1	996.6	994.4	1000.8	1022.0	1062.4	1198.4
77.5°	1005.0	958.3	911.6	883.9	871.1	856.3	843.5	828.7	818.1	830.7	890.3
80°	864.8	811.7	775.5	758.5	745.8	724.6	696.9	671.5	648.0	643.8	680.0
82.5°	696.9	635.4	637.4	643.8	620.4	590.7	561.0	533.4	493.0	471.7	493.0
85°	563.0	531.2	516.3	556.7	522.7	478.0	431.4	382.5	318.8	267.7	291.1
87.5°	218.8	218.8	327.2	503.6	452.6	369.7	316.6	269.9	167.9	129.6	131.8
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°	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9
2.5°	4995.4	4999.6	4997.5	4995.4	4995.4	4993.2	4995.4	4995.4
5°	5033.6	5044.3	5044.3	5048.5	5048.5	5050.6	5052.8	5050.6
7.5°	5090.9	5110.0	5122.8	5137.7	5139.8	5142.0	5146.3	5142.0
10°	5148.3	5186.6	5214.2	5241.8	5254.6	5258.8	5263.1	5263.1
12.5°	5220.5	5273.7	5322.6	5371.4	5394.8	5407.5	5407.5	5416.0
15°	5339.6	5392.7	5450.1	5516.0	5556.3	5577.5	5583.9	5583.9
17.5°	5507.5	5554.2	5603.0	5666.7	5717.8	5745.4	5751.7	5749.6
20°	5703.0	5747.6	5775.2	5815.5	5860.2	5892.0	5900.5	5900.5
22.5°	5926.0	5951.5	5955.7	5968.5	6004.6	6047.1	6066.2	6070.5
25°	6172.5	6178.8	6161.8	6161.8	6185.3	6225.6	6244.7	6246.9
27.5°	6491.2	6459.3	6416.9	6401.9	6416.9	6463.6	6486.9	6495.4
30°	6888.6	6812.0	6714.3	6661.1	6652.7	6714.3	6756.8	6763.1
32.5°	7343.3	7232.8	7103.2	6994.7	6967.1	7005.4	7056.4	7054.3
35°	7883.0	7751.2	7594.0	7455.9	7392.1	7430.3	7502.6	7511.1
37.5°	8505.5	8333.4	8152.8	7978.5	7878.7	7889.3	7965.8	7991.3
40°	9200.3	8977.2	8749.8	8516.1	8373.8	8346.2	8439.7	8454.5
42.5°	9944.0	9657.1	9370.2	9081.3	8898.5	8856.1	8964.4	8958.1
45°	10736.5	10371.1	10035.4	9716.6	9499.8	9436.1	9525.4	9525.4
47.5°	11588.5	11138.1	10738.6	10377.4	10141.5	10050.2	10135.2	10141.5
50°	12491.6	12013.5	11543.9	11142.3	10859.7	10742.8	10853.4	10870.4
52.5°	13390.3	12925.0	12451.2	11992.3	11650.2	11507.8	11635.2	11690.5
55°	14301.9	13845.0	13392.5	12944.1	12538.3	12370.4	12506.4	12576.6
57.5°	15264.4	14841.6	14410.2	13957.7	13566.7	13305.3	13449.9	13543.4
60°	16392.7	16031.5	15583.1	15083.8	14688.6	14423.0	14505.9	14588.7
62.5°	17285.1	17425.3	17044.9	16467.1	15959.2	15619.2	15699.9	15787.1
65°	16853.7	18292.2	18630.1	18045.8	17342.4	16813.3	16779.4	16824.0
67.5°	14087.3	16881.3	18919.1	19475.8	18887.2	18152.0	18016.0	18081.9
70°	9423.4	12903.8	16498.9	19176.1	19887.9	19603.2	19469.3	19509.7
72.5°	4525.7	7515.3	11193.3	14752.3	16919.6	17914.0	18232.7	18387.8
75°	1655.2	2983.2	5394.8	8129.4	9814.4	11361.2	12370.4	12782.7
77.5°	998.6	1204.7	1723.2	2594.3	2938.5	3289.2	3153.1	3221.2
80°	739.4	835.0	945.5	1062.4	1100.6	1100.6	1058.1	1024.2
82.5°	518.4	580.0	633.2	696.9	713.9	682.1	561.0	446.2
85°	333.6	361.2	384.6	424.9	414.3	395.2	265.6	235.9
87.5°	153.0	174.2	182.7	201.8	193.3	184.8	131.8	110.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)