

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: STREETWORKS

Report Number: P191825

Luminaire Tested: **GAN-AF-07-LED-U-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191825
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: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-RW-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47211 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G4

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: 28.75 FT

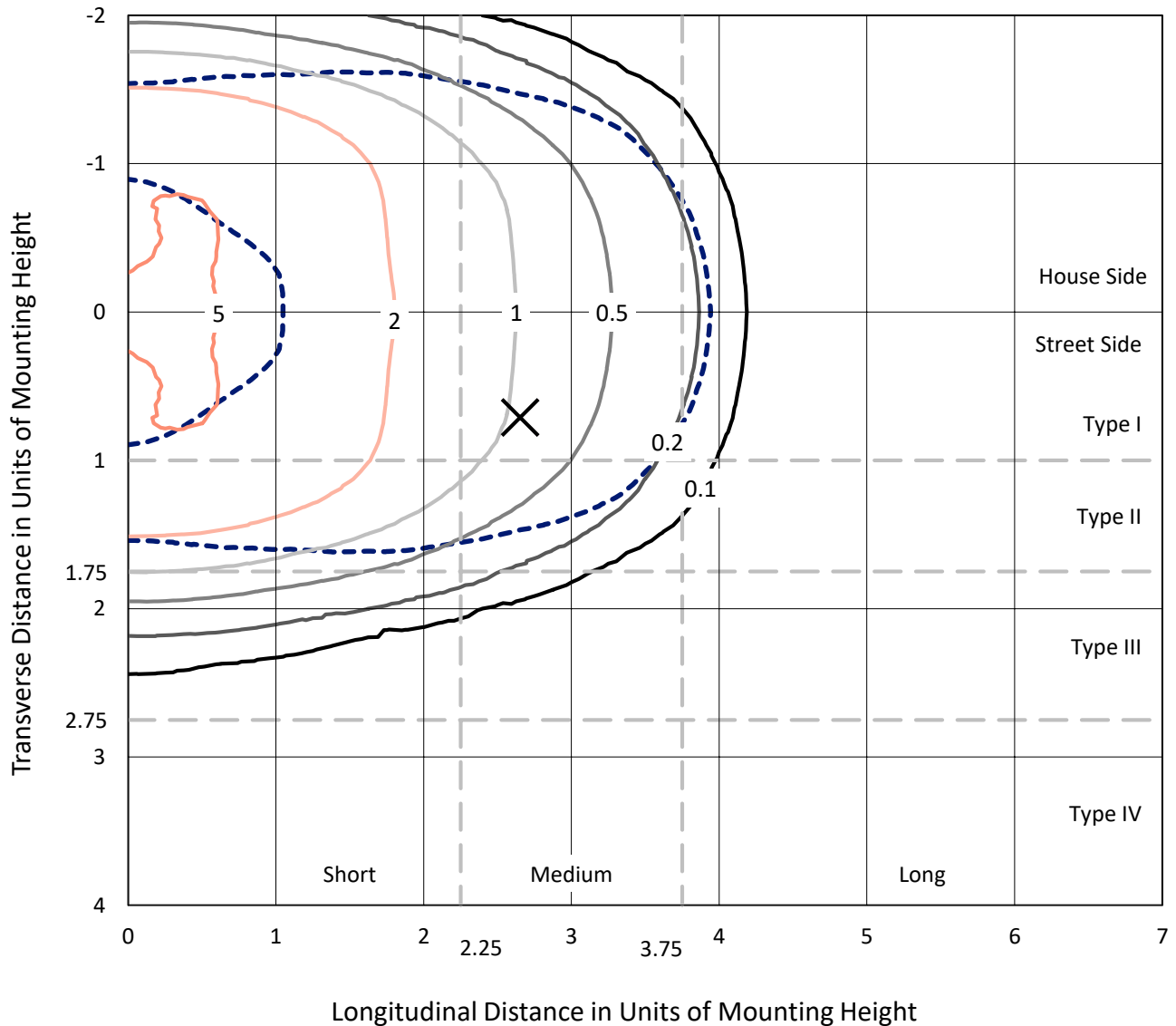


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

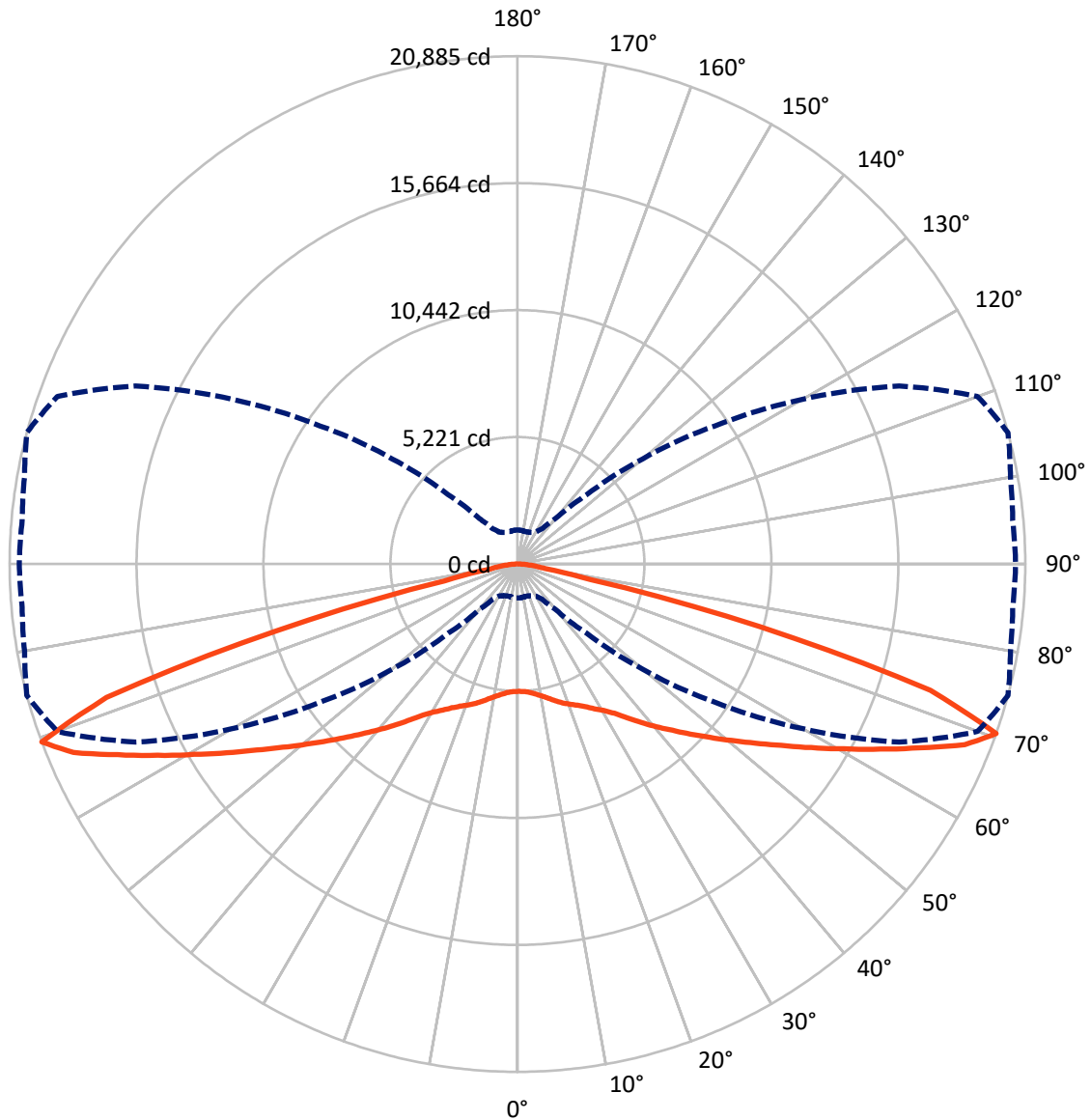


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Medium - Full Cutoff

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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	23605.5	0.0	23605.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23605.5	0.0	23605.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47211.0	0.0	47211.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.2	1.1
10°-20°	1560.6	3.3
20°-30°	2937.2	6.2
30°-40°	5201.3	11.0
40°-50°	8698.2	18.4
50°-60°	12120.9	25.7
60°-70°	11240.2	23.8
70°-80°	4479.6	9.5
80°-90°	470.9	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°	47211.0	100.0
0°-180°	47211.0	100.0



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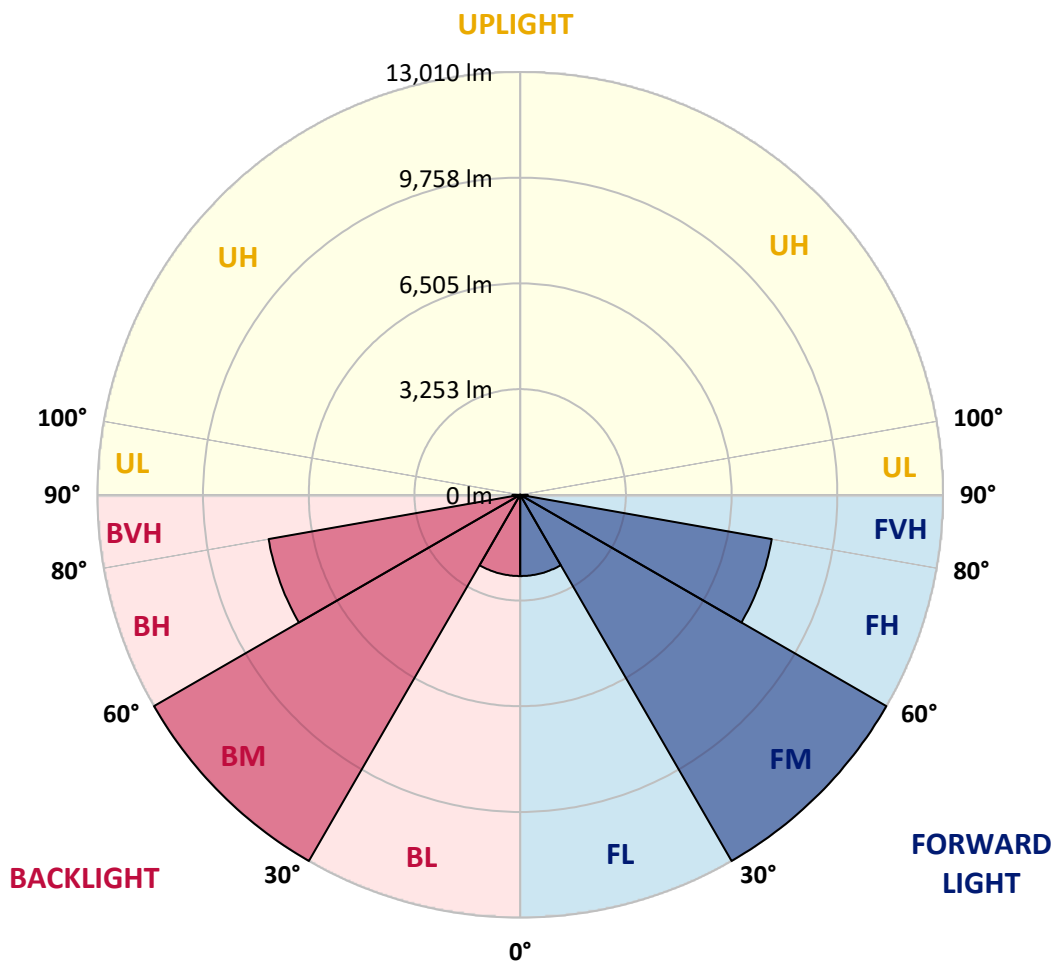
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2500.0	5.3			
FM	(30°-60°)	13010.2	27.6			
FH	(60°-80°)	7859.9	16.6			G4/12000
FVH	(80°-90°)	235.4	0.5			G3/500
BL	(0°-30°)	2500.0	5.3	B4/5000		
BM	(30°-60°)	13010.2	27.6	B5		
BH	(60°-80°)	7859.9	16.6	B5		G4/12000
BVH	(80°-90°)	235.4	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-G4

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8
2.5°	5227.9	5223.4	5227.9	5225.6	5230.1	5230.1	5234.6	5243.5	5243.5	5250.2	5248.0
5°	5176.6	5174.3	5181.0	5187.7	5194.4	5207.8	5221.2	5241.3	5256.9	5268.0	5279.2
7.5°	5076.1	5076.1	5085.1	5100.7	5116.3	5145.3	5176.6	5216.7	5256.9	5290.4	5319.4
10°	4993.6	4998.1	5009.2	5036.0	5062.8	5107.4	5149.8	5207.8	5263.6	5319.4	5364.0
12.5°	4944.5	4951.2	4971.3	5011.4	5056.1	5116.3	5181.0	5254.7	5317.1	5384.1	5428.7
15°	4960.1	4964.6	4993.6	5042.7	5100.7	5176.6	5263.6	5350.6	5424.2	5495.6	5555.9
17.5°	5047.1	5053.8	5087.3	5143.1	5203.3	5292.6	5386.3	5484.5	5576.0	5656.3	5729.9
20°	5203.3	5210.0	5252.4	5312.7	5384.1	5475.5	5569.3	5671.9	5774.5	5859.3	5941.9
22.5°	5424.2	5435.4	5475.5	5535.8	5616.1	5714.3	5825.9	5935.2	6033.4	6111.5	6185.1
25°	5714.3	5738.8	5776.8	5843.7	5928.5	6017.7	6138.2	6249.8	6343.5	6417.1	6470.7
27.5°	6124.8	6158.3	6187.3	6252.0	6334.6	6419.4	6539.9	6638.0	6727.3	6798.7	6838.9
30°	6669.3	6702.7	6731.8	6794.2	6870.1	6950.4	7064.2	7151.2	7207.0	7262.8	7260.6
32.5°	7329.7	7365.4	7376.6	7443.5	7521.6	7608.6	7711.3	7760.4	7805.0	7811.7	7771.5
35°	8068.3	8086.1	8130.8	8220.0	8309.3	8380.7	8478.8	8503.4	8503.4	8469.9	8380.7
37.5°	8878.2	8889.4	8951.9	9052.3	9143.8	9217.4	9284.3	9333.4	9308.9	9237.5	9088.0
40°	9766.3	9786.4	9875.6	9964.9	10067.5	10136.7	10208.1	10217.0	10192.5	10087.6	9884.5
42.5°	10614.2	10632.0	10721.3	10861.8	10995.7	11091.7	11158.6	11172.0	11093.9	10997.9	10745.8
45°	11343.8	11390.7	11506.7	11671.8	11865.9	12002.0	12093.5	12131.4	12062.3	11937.3	11645.0
47.5°	11921.7	11968.6	12133.7	12330.0	12571.0	12791.9	12943.6	13023.9	13006.1	12912.4	12593.3
50°	12345.6	12390.3	12568.8	12809.7	13090.9	13365.3	13624.2	13816.0	13883.0	13840.6	13548.3
52.5°	12394.7	12468.4	12678.1	13001.6	13367.6	13742.4	14110.6	14436.3	14657.2	14690.7	14474.3
55°	11709.7	11783.4	12073.4	12553.1	13097.6	13708.9	14298.0	14846.9	15282.0	15505.1	15391.3
57.5°	10094.3	10225.9	10531.6	11093.9	11894.9	12809.7	13749.1	14724.2	15610.0	16201.3	16315.1
60°	7735.8	7892.0	8199.9	8797.9	9690.4	10781.5	12035.5	13476.9	15041.0	16370.9	17165.2
62.5°	4962.4	5109.6	5433.2	5953.0	6680.4	7863.0	9208.5	10919.9	13021.7	15121.3	17013.5
65°	2550.3	2630.7	2800.2	3114.9	3681.6	4565.2	5772.3	7479.2	9882.3	12472.8	15208.4
67.5°	1615.4	1631.1	1669.0	1713.6	1858.7	2164.3	2726.6	3790.9	5767.8	8469.9	11671.8
70°	1396.8	1396.8	1378.9	1372.2	1390.1	1432.5	1519.5	1767.2	2434.3	4020.8	6731.8
72.5°	1278.5	1265.1	1233.9	1209.4	1204.9	1204.9	1222.7	1260.7	1367.8	1637.8	2635.1
75°	1178.1	1140.2	1097.8	1068.8	1057.6	1046.5	1044.2	1050.9	1073.2	1115.6	1258.4
77.5°	1055.4	1006.3	957.2	928.2	914.8	899.2	885.8	870.2	859.0	872.4	934.9
80°	908.1	852.3	814.4	796.6	783.2	760.9	731.9	705.1	680.5	676.1	714.0
82.5°	731.9	667.2	669.4	676.1	651.5	620.3	589.1	560.0	517.7	495.3	517.7
85°	591.3	557.8	542.2	584.6	548.9	502.0	452.9	401.6	334.7	281.1	305.7
87.5°	229.8	229.8	343.6	528.8	475.3	388.2	332.5	283.4	176.3	136.1	138.3
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°	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8	5236.8
2.5°	5245.7	5250.2	5248.0	5245.7	5245.7	5243.5	5245.7	5245.7
5°	5285.9	5297.0	5297.0	5301.5	5301.5	5303.7	5306.0	5303.7
7.5°	5346.1	5366.2	5379.6	5395.2	5397.5	5399.7	5404.1	5399.7
10°	5406.4	5446.5	5475.5	5504.6	5517.9	5522.4	5526.9	5526.9
12.5°	5482.2	5538.0	5589.3	5640.7	5665.2	5678.6	5678.6	5687.5
15°	5607.2	5663.0	5723.2	5792.4	5834.8	5857.1	5863.8	5863.8
17.5°	5783.5	5832.6	5883.9	5950.8	6004.4	6033.4	6040.1	6037.8
20°	5988.7	6035.6	6064.6	6107.0	6153.9	6187.3	6196.2	6196.2
22.5°	6223.0	6249.8	6254.3	6267.6	6305.6	6350.2	6370.3	6374.7
25°	6481.9	6488.5	6470.7	6470.7	6495.2	6537.6	6557.7	6559.9
27.5°	6816.5	6783.1	6738.4	6722.8	6738.4	6787.5	6812.1	6821.0
30°	7233.8	7153.5	7050.8	6995.0	6986.1	7050.8	7095.5	7102.1
32.5°	7711.3	7595.3	7459.1	7345.4	7316.3	7356.5	7410.1	7407.8
35°	8278.0	8139.7	7974.6	7829.5	7762.6	7802.8	7878.6	7887.6
37.5°	8931.8	8751.1	8561.4	8378.4	8273.6	8284.7	8365.0	8391.8
40°	9661.4	9427.1	9188.4	8942.9	8793.5	8764.4	8862.6	8878.2
42.5°	10442.4	10141.1	9839.9	9536.5	9344.6	9300.0	9413.7	9407.1
45°	11274.6	10890.8	10538.3	10203.6	9976.0	9909.1	10002.8	10002.8
47.5°	12169.4	11696.3	11276.9	10897.5	10649.9	10553.9	10643.2	10649.9
50°	13117.7	12615.6	12122.5	11700.8	11404.0	11281.3	11397.3	11415.2
52.5°	14061.5	13572.8	13075.3	12593.3	12234.1	12084.6	12218.5	12276.5
55°	15018.7	14539.0	14063.7	13592.9	13166.7	12990.5	13133.3	13206.9
57.5°	16029.5	15585.4	15132.5	14657.2	14246.7	13972.2	14124.0	14222.1
60°	17214.3	16835.0	16364.2	15839.8	15424.8	15145.9	15232.9	15319.9
62.5°	18151.4	18298.7	17899.3	17292.4	16759.1	16402.1	16486.9	16578.4
65°	17698.5	19209.0	19563.8	18950.2	18211.7	17656.1	17620.4	17667.2
67.5°	14793.3	17727.5	19867.3	20451.9	19833.8	19061.8	18919.0	18988.1
70°	9895.7	13550.5	17325.8	20137.2	20884.7	20585.7	20445.2	20487.6
72.5°	4752.6	7892.0	11754.4	15491.7	17767.6	18811.9	19146.6	19309.4
75°	1738.2	3132.7	5665.2	8536.9	10306.3	11930.6	12990.5	13423.3
77.5°	1048.7	1265.1	1809.6	2724.4	3085.9	3454.0	3311.2	3382.6
80°	776.5	876.9	992.9	1115.6	1155.8	1155.8	1111.2	1075.5
82.5°	544.4	609.1	664.9	731.9	749.7	716.2	589.1	468.6
85°	350.3	379.3	403.9	446.3	435.1	415.0	278.9	247.7
87.5°	160.7	183.0	191.9	212.0	203.0	194.1	138.3	116.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)