

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: P300650

Luminaire Tested: **GLNA-AF-10-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300650
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: GLNA-AF-10-LED-E1-RW-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46901.9 lumens
Efficiency: N/A
Efficacy: 111.9 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

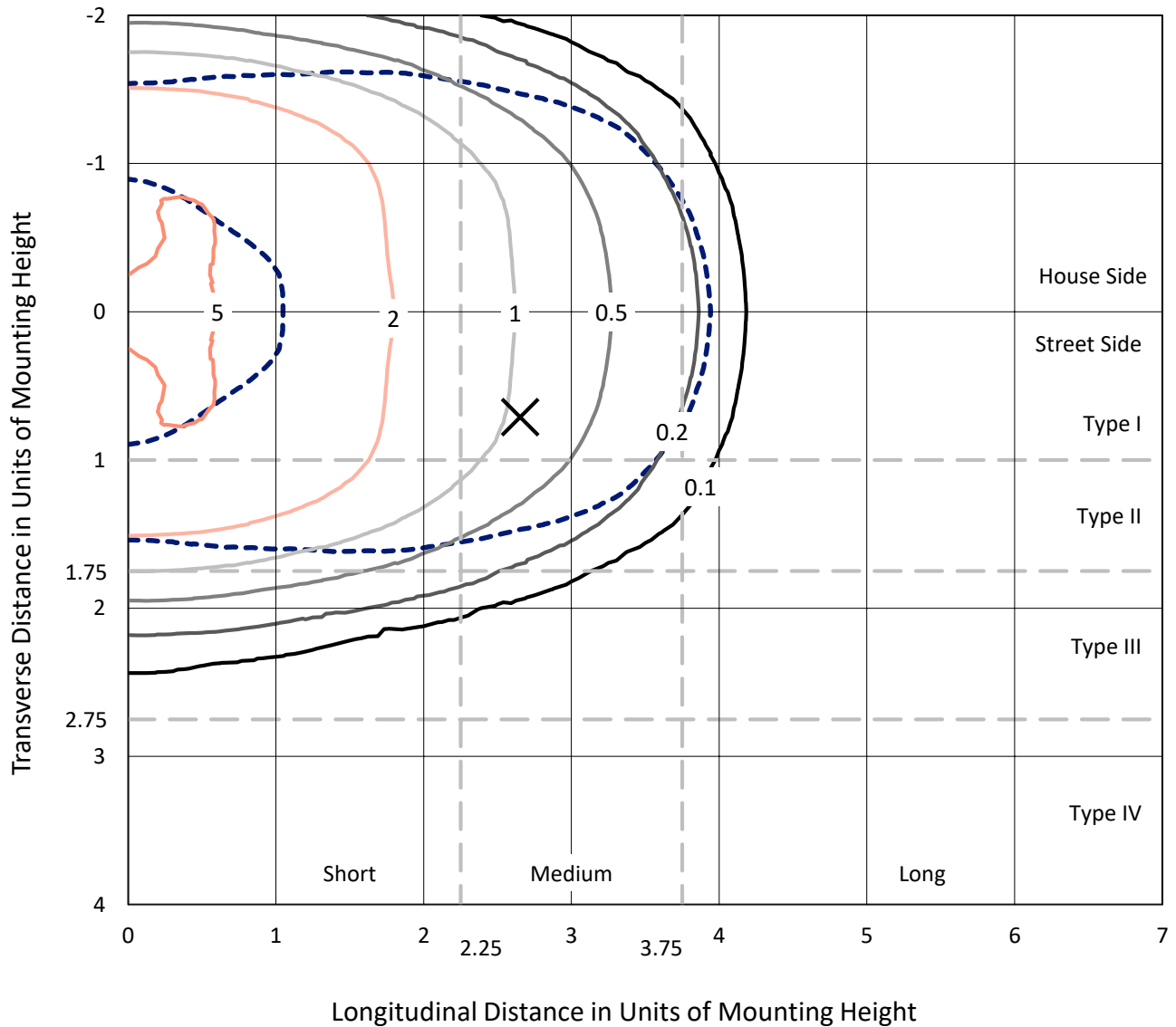
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

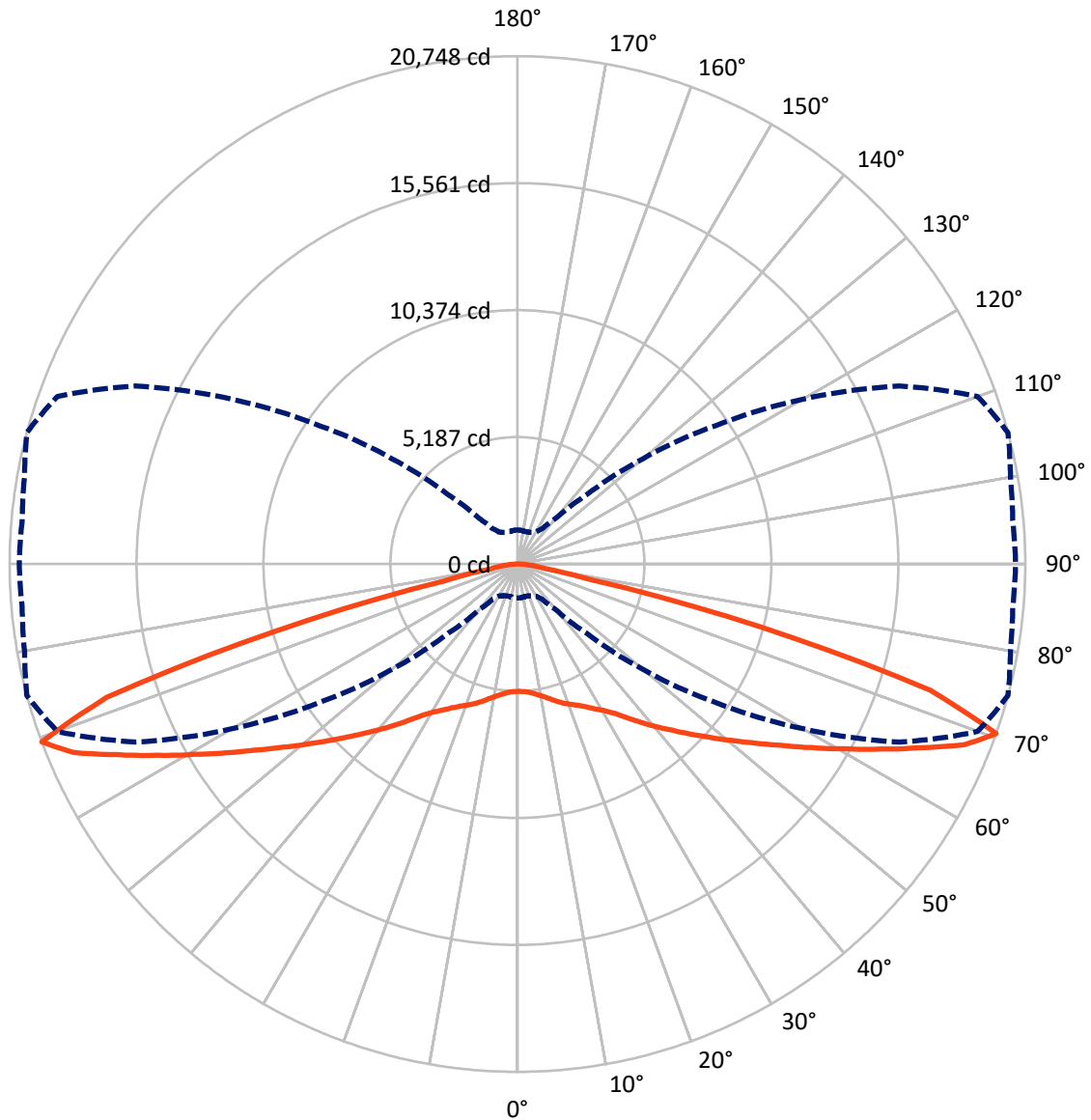
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	23450.9	0.0	23450.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23450.9	0.0	23450.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	46901.9	0.0	46901.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.0	1.1
10°-20°	1550.3	3.3
20°-30°	2918.0	6.2
30°-40°	5167.2	11.0
40°-50°	8641.2	18.4
50°-60°	12041.6	25.7
60°-70°	11166.6	23.8
70°-80°	4450.2	9.5
80°-90°	467.8	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°	46901.9	100.0
0°-180°	46901.9	100.0



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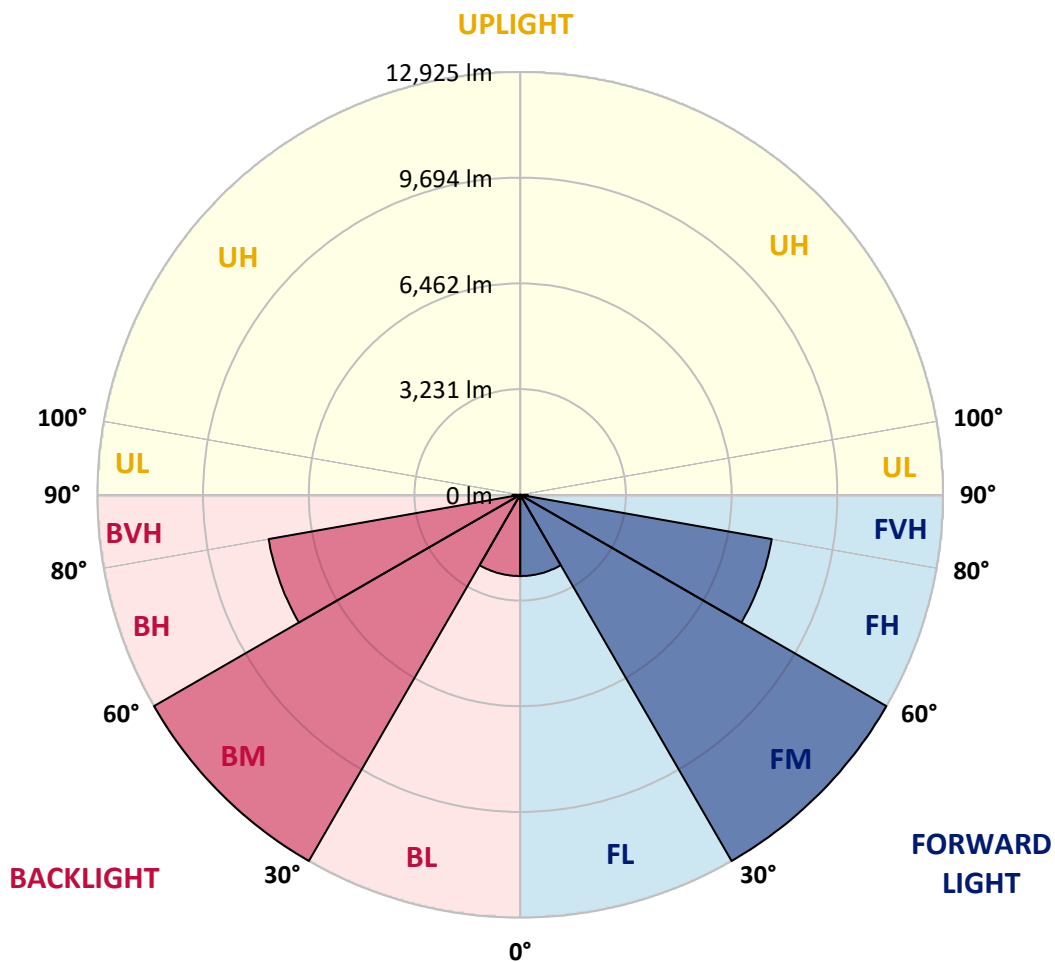
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2483.6	5.3			
FM	(30°-60°)	12925.0	27.6			
FH	(60°-80°)	7808.4	16.6			G4/12000
FVH	(80°-90°)	233.9	0.5			G3/500
BL	(0°-30°)	2483.6	5.3	B3/2500		
BM	(30°-60°)	12925.0	27.6	B5		
BH	(60°-80°)	7808.4	16.6	B5		G5
BVH	(80°-90°)	233.9	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°	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5
2.5°	5193.6	5189.2	5193.6	5191.4	5195.9	5195.9	5200.3	5209.2	5209.2	5215.8	5213.6
5°	5142.7	5140.4	5147.1	5153.7	5160.4	5173.7	5187.0	5206.9	5222.5	5233.5	5244.6
7.5°	5042.9	5042.9	5051.8	5067.3	5082.8	5111.6	5142.7	5182.6	5222.5	5255.7	5284.5
10°	4960.9	4965.3	4976.4	5003.0	5029.6	5073.9	5116.1	5173.7	5229.1	5284.5	5328.9
12.5°	4912.1	4918.8	4938.7	4978.6	5023.0	5082.8	5147.1	5220.2	5282.3	5348.8	5393.1
15°	4927.6	4932.1	4960.9	5009.7	5067.3	5142.7	5229.1	5315.6	5388.7	5459.6	5519.5
17.5°	5014.1	5020.7	5054.0	5109.4	5169.3	5257.9	5351.0	5448.6	5539.4	5619.2	5692.4
20°	5169.3	5175.9	5218.0	5277.9	5348.8	5439.7	5532.8	5634.8	5736.7	5821.0	5903.0
22.5°	5388.7	5399.8	5439.7	5499.5	5579.3	5676.9	5787.7	5896.3	5993.9	6071.4	6144.6
25°	5676.9	5701.3	5738.9	5805.4	5889.7	5978.3	6098.0	6208.9	6302.0	6375.1	6428.3
27.5°	6084.7	6118.0	6146.8	6211.1	6293.1	6377.3	6497.0	6594.6	6683.2	6754.2	6794.1
30°	6625.6	6658.9	6687.7	6749.7	6825.1	6904.9	7018.0	7104.4	7159.8	7215.2	7213.0
32.5°	7281.7	7317.2	7328.3	7394.8	7472.4	7558.8	7660.8	7709.6	7753.9	7760.5	7720.6
35°	8015.5	8033.2	8077.5	8166.2	8254.9	8325.8	8423.3	8447.7	8447.7	8414.5	8325.8
37.5°	8820.1	8831.2	8893.3	8993.0	9083.9	9157.0	9223.5	9272.3	9247.9	9177.0	9028.5
40°	9702.3	9722.3	9811.0	9899.6	10001.6	10070.3	10141.2	10150.1	10125.7	10021.5	9819.8
42.5°	10544.7	10562.4	10651.1	10790.7	10923.7	11019.0	11085.5	11098.8	11021.3	10925.9	10675.5
45°	11269.5	11316.1	11431.3	11595.4	11788.2	11923.4	12014.3	12052.0	11983.3	11859.2	11568.8
47.5°	11843.6	11890.2	12054.2	12249.3	12488.7	12708.1	12858.9	12938.7	12920.9	12827.8	12510.9
50°	12264.8	12309.1	12486.5	12725.9	13005.2	13277.8	13535.0	13725.6	13792.1	13750.0	13459.6
52.5°	12313.6	12386.7	12595.1	12916.5	13280.0	13652.4	14018.2	14341.8	14561.3	14594.5	14379.5
55°	11633.1	11706.2	11994.4	12471.0	13011.8	13619.2	14204.4	14749.7	15181.9	15403.6	15290.6
57.5°	10028.2	10159.0	10462.7	11021.3	11817.0	12725.9	13659.1	14627.8	15507.8	16095.2	16208.3
60°	7685.2	7840.3	8146.2	8740.3	9627.0	10710.9	11956.7	13388.7	14942.5	16263.7	17052.8
62.5°	4929.9	5076.2	5397.6	5914.1	6636.7	7811.5	9148.2	10848.4	12936.5	15022.3	16902.1
65°	2533.6	2613.4	2781.9	3094.5	3657.5	4535.3	5734.5	7430.3	9817.6	12391.2	15108.8
67.5°	1604.9	1620.4	1658.1	1702.4	1846.5	2150.2	2708.8	3766.1	5730.1	8414.5	11595.4
70°	1387.6	1387.6	1369.9	1363.2	1381.0	1423.1	1509.5	1755.6	2418.4	3994.4	6687.7
72.5°	1270.1	1256.8	1225.8	1201.4	1197.0	1197.0	1214.7	1252.4	1358.8	1627.0	2617.9
75°	1170.4	1132.7	1090.6	1061.8	1050.7	1039.6	1037.4	1044.0	1066.2	1108.3	1250.2
77.5°	1048.5	999.7	950.9	922.1	908.8	893.3	880.0	864.5	853.4	866.7	928.8
80°	902.2	846.8	809.1	791.3	778.0	755.9	727.1	700.5	676.1	671.6	709.3
82.5°	727.1	662.8	665.0	671.6	647.3	616.2	585.2	556.4	514.3	492.1	514.3
85°	587.4	554.2	538.6	580.8	545.3	498.7	450.0	399.0	332.5	279.3	303.7
87.5°	228.3	228.3	341.4	525.3	472.1	385.7	330.3	281.5	175.1	135.2	137.4
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°	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5	5202.5
2.5°	5211.4	5215.8	5213.6	5211.4	5211.4	5209.2	5211.4	5211.4
5°	5251.3	5262.4	5262.4	5266.8	5266.8	5269.0	5271.2	5269.0
7.5°	5311.1	5331.1	5344.4	5359.9	5362.1	5364.3	5368.8	5364.3
10°	5371.0	5410.9	5439.7	5468.5	5481.8	5486.2	5490.7	5490.7
12.5°	5446.3	5501.8	5552.7	5603.7	5628.1	5641.4	5641.4	5650.3
15°	5570.5	5625.9	5685.7	5754.5	5796.6	5818.7	5825.4	5825.4
17.5°	5745.6	5794.4	5845.3	5911.8	5965.0	5993.9	6000.5	5998.3
20°	5949.5	5996.1	6024.9	6067.0	6113.6	6146.8	6155.7	6155.7
22.5°	6182.3	6208.9	6213.3	6226.6	6264.3	6308.6	6328.6	6333.0
25°	6439.4	6446.1	6428.3	6428.3	6452.7	6494.8	6514.8	6517.0
27.5°	6771.9	6738.7	6694.3	6678.8	6694.3	6743.1	6767.5	6776.3
30°	7186.4	7106.6	7004.7	6949.2	6940.4	7004.7	7049.0	7055.6
32.5°	7660.8	7545.5	7410.3	7297.3	7268.4	7308.3	7361.5	7359.3
35°	8223.8	8086.4	7922.4	7778.3	7711.8	7751.7	7827.0	7835.9
37.5°	8873.3	8693.8	8505.3	8323.6	8219.4	8230.5	8310.3	8336.9
40°	9598.2	9365.4	9128.2	8884.4	8735.9	8707.1	8804.6	8820.1
42.5°	10374.0	10074.7	9775.5	9474.0	9283.4	9239.1	9352.1	9345.5
45°	11200.8	10819.5	10469.3	10136.8	9910.7	9844.2	9937.3	9937.3
47.5°	12089.7	11619.8	11203.0	10826.2	10580.1	10484.8	10573.5	10580.1
50°	13031.8	12533.0	12043.1	11624.2	11329.4	11207.5	11322.7	11340.5
52.5°	13969.4	13484.0	12989.7	12510.9	12154.0	12005.5	12138.5	12196.1
55°	14920.4	14443.8	13971.6	13503.9	13080.5	12905.4	13047.3	13120.4
57.5°	15924.5	15483.4	15033.4	14561.3	14153.4	13880.8	14031.5	14129.0
60°	17101.6	16724.7	16257.0	15736.1	15323.8	15046.7	15133.2	15219.6
62.5°	18032.6	18178.9	17782.1	17179.2	16649.4	16294.7	16378.9	16469.8
65°	17582.6	19083.3	19435.7	18826.1	18092.4	17540.5	17505.0	17551.6
67.5°	14696.5	17611.4	19737.2	20318.0	19703.9	18937.0	18795.1	18863.8
70°	9830.9	13461.8	17212.4	20005.4	20748.0	20451.0	20311.3	20353.4
72.5°	4721.5	7840.3	11677.4	15390.3	17651.3	18688.7	19021.2	19183.0
75°	1726.8	3112.2	5628.1	8481.0	10238.8	11852.5	12905.4	13335.5
77.5°	1041.8	1256.8	1797.7	2706.5	3065.6	3431.4	3289.5	3360.5
80°	771.4	871.1	986.4	1108.3	1148.2	1148.2	1103.9	1068.4
82.5°	540.9	605.1	660.6	727.1	744.8	711.5	585.2	465.5
85°	348.0	376.8	401.2	443.3	432.2	412.3	277.1	246.0
87.5°	159.6	181.8	190.6	210.6	201.7	192.8	137.4	115.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)