

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: P190848

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-5NQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50228.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

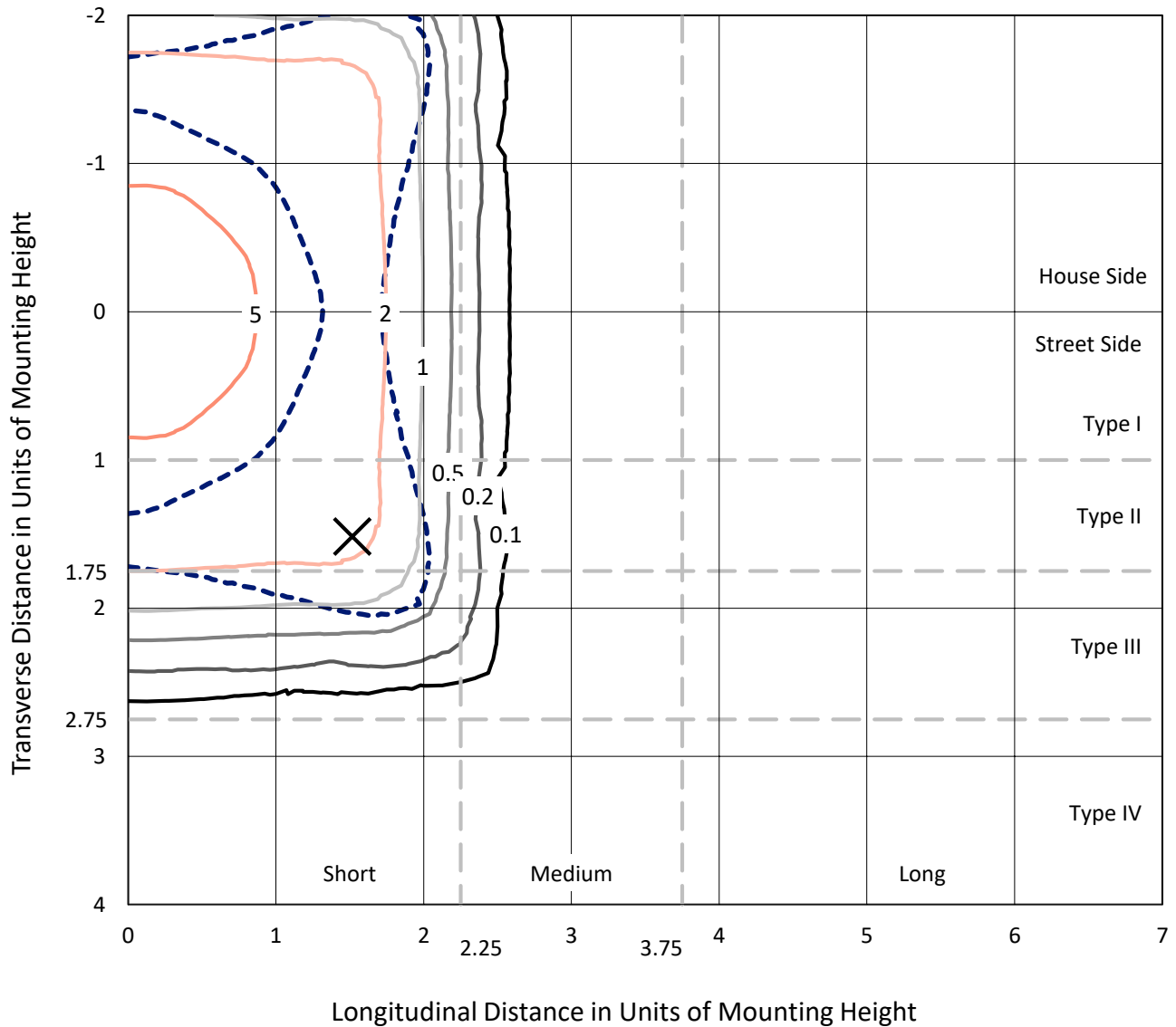
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

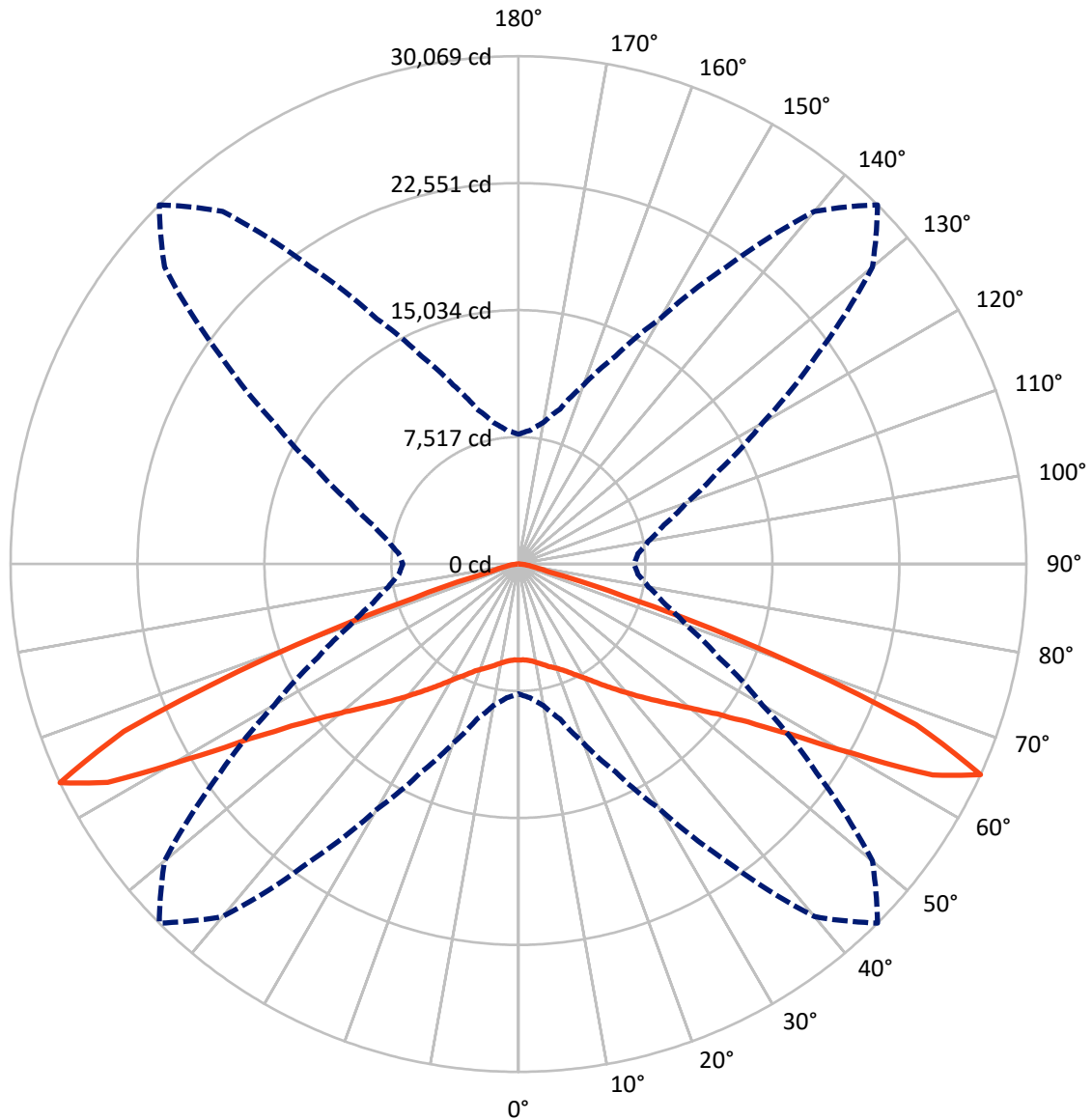
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25114.5	0.0	25114.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25114.5	0.0	25114.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50228.9	0.0	50228.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	1.1
10°-20°	1776.6	3.5
20°-30°	3321.9	6.6
30°-40°	5618.3	11.2
40°-50°	9186.6	18.3
50°-60°	14608.1	29.1
60°-70°	13204.8	26.3
70°-80°	1671.1	3.3
80°-90°	287.5	0.6
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°	50228.9	100.0
0°-180°	50228.9	100.0



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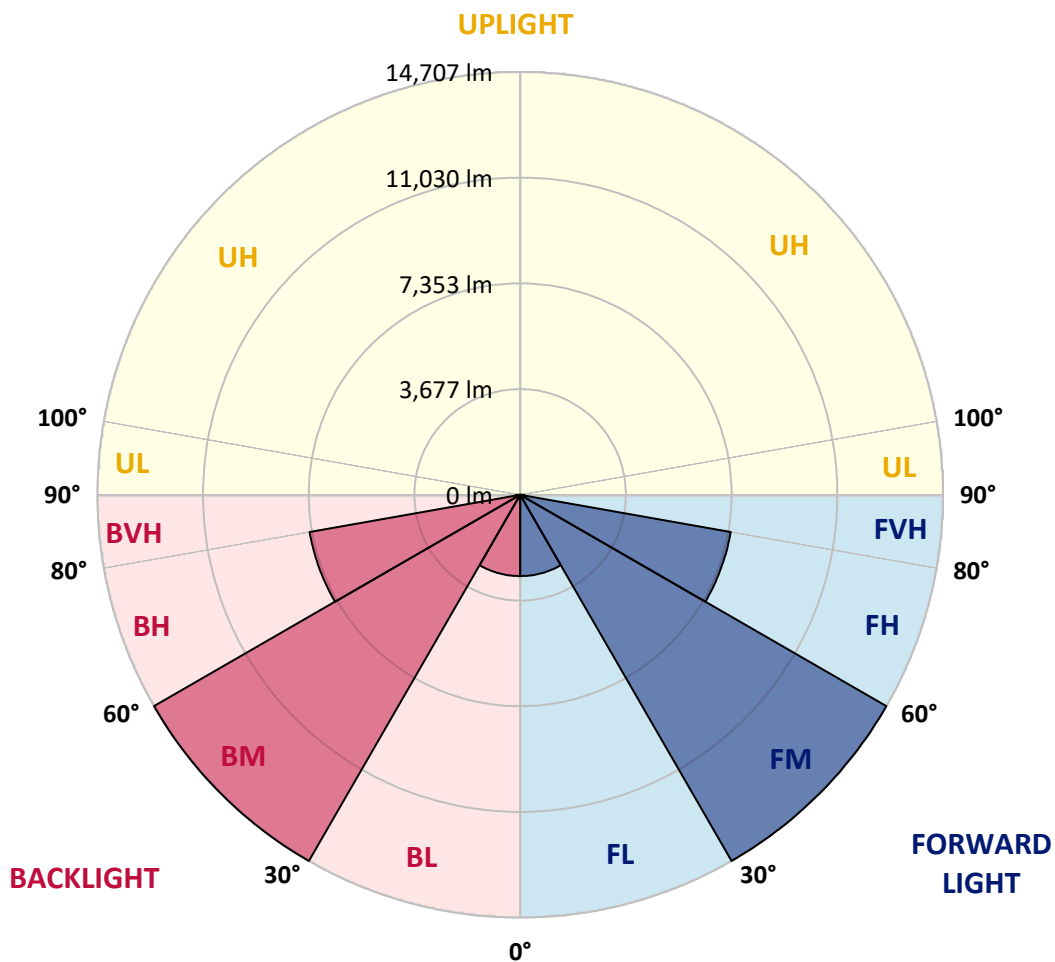
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2826.3	5.6			
FM	(30°-60°)	14706.5	29.3			
FH	(60°-80°)	7437.9	14.8			G3/7500
FVH	(80°-90°)	143.7	0.3			G2/225
BL	(0°-30°)	2826.3	5.6	B4/5000		
BM	(30°-60°)	14706.5	29.3	B5		
BH	(60°-80°)	7437.9	14.8	B5		G3/7500
BVH	(80°-90°)	143.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4
2.5°	5688.1	5692.8	5697.5	5692.8	5697.5	5690.5	5685.8	5692.8	5685.8	5678.7	5683.4
5°	5737.5	5739.9	5739.9	5732.8	5739.9	5735.2	5728.1	5737.5	5730.5	5723.4	5728.1
7.5°	5819.9	5829.3	5822.2	5815.2	5819.9	5815.2	5810.5	5812.8	5810.5	5803.4	5805.8
10°	5930.5	5937.5	5932.8	5930.5	5935.2	5932.8	5928.1	5925.7	5928.1	5921.0	5921.0
12.5°	6064.6	6062.2	6059.9	6062.2	6069.3	6069.3	6066.9	6069.3	6074.0	6076.3	6071.6
15°	6196.2	6200.9	6200.9	6200.9	6215.0	6226.8	6233.9	6238.6	6248.0	6250.3	6240.9
17.5°	6360.9	6360.9	6358.6	6360.9	6375.0	6393.9	6400.9	6410.3	6419.7	6426.8	6415.0
20°	6544.4	6549.1	6549.1	6553.8	6572.7	6593.8	6593.8	6598.5	6593.8	6598.5	6591.5
22.5°	6767.8	6782.0	6782.0	6784.3	6803.1	6829.0	6822.0	6829.0	6817.3	6826.7	6817.3
25°	7059.6	7080.8	7076.1	7076.1	7090.2	7106.6	7109.0	7123.1	7120.8	7132.5	7125.5
27.5°	7389.0	7421.8	7431.2	7428.9	7438.3	7454.8	7459.5	7475.9	7466.5	7475.9	7471.2
30°	7784.1	7798.3	7817.1	7824.1	7835.9	7852.4	7852.4	7854.7	7843.0	7857.1	7864.1
32.5°	8193.4	8219.3	8238.1	8280.5	8301.7	8313.4	8311.1	8315.8	8304.0	8322.8	8336.9
35°	8734.5	8753.3	8783.9	8816.8	8845.0	8842.7	8835.6	8838.0	8838.0	8854.5	8868.6
37.5°	9386.1	9390.8	9430.8	9477.8	9492.0	9477.8	9435.5	9426.1	9404.9	9426.1	9449.6
40°	10075.3	10091.8	10171.8	10202.4	10209.5	10183.6	10122.4	10087.1	10040.1	10065.9	10098.9
42.5°	10797.6	10830.5	10903.4	10957.5	10981.1	10964.6	10879.9	10825.8	10764.6	10778.7	10811.7
45°	11597.4	11637.4	11740.9	11792.7	11837.4	11811.5	11729.2	11646.8	11550.3	11557.4	11609.2
47.5°	12491.4	12531.4	12665.4	12752.4	12775.9	12771.2	12679.5	12566.5	12434.9	12430.2	12474.9
50°	13493.4	13533.4	13700.5	13834.6	13902.7	13895.7	13787.5	13627.5	13467.6	13469.9	13526.4
52.5°	14472.1	14521.4	14695.5	14926.1	15060.2	15156.6	15090.8	14940.2	14744.9	14749.6	14801.4
55°	15389.5	15471.8	15671.8	15984.6	16234.0	16504.5	16582.1	16577.4	16459.8	16492.7	16544.5
57.5°	15834.1	15956.4	16264.6	16758.6	17266.7	17817.1	18283.0	18631.1	18779.3	19002.7	18951.1
60°	14992.0	15187.1	15641.2	16368.1	17372.6	18520.5	19750.8	20952.9	21978.6	22752.6	22307.9
62.5°	12274.9	12529.0	13079.4	14010.9	15530.6	17367.9	19722.6	22564.4	25660.1	27527.9	26194.1
65°	7680.6	7944.1	8504.0	9501.4	11279.8	13564.0	16758.6	21468.2	27252.7	30068.5	27353.9
67.5°	2994.6	3138.1	3441.6	4079.1	5415.3	7447.7	10654.0	15998.7	22917.2	25384.9	22491.4
70°	1500.9	1515.0	1571.5	1689.0	1976.0	2566.5	3905.0	7417.1	13143.0	15874.0	12670.1
72.5°	1084.4	1086.8	1115.0	1166.8	1258.5	1390.3	1644.3	2270.0	4274.3	6532.7	4006.2
75°	830.4	839.8	856.3	884.5	934.0	999.7	1091.5	1307.9	1620.8	1879.6	1580.9
77.5°	639.9	658.7	670.4	696.3	726.9	771.6	797.5	879.8	1023.3	1077.4	1060.9
80°	486.9	503.4	529.3	550.4	571.6	592.8	583.4	621.0	696.3	741.0	717.5
82.5°	310.6	329.3	404.6	423.4	432.8	446.9	430.5	432.8	465.7	494.0	465.7
85°	200.0	211.8	256.5	280.0	282.3	291.7	284.7	268.2	268.2	244.7	275.3
87.5°	91.8	94.1	115.3	136.5	141.2	127.1	124.7	120.0	96.5	91.8	98.8
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°	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4	5683.4
2.5°	5681.1	5685.8	5688.1	5695.2	5697.5	5697.5	5699.9	5704.6
5°	5725.8	5732.8	5735.2	5744.6	5746.9	5744.6	5749.3	5751.6
7.5°	5805.8	5817.5	5822.2	5831.6	5824.6	5834.0	5836.3	5836.3
10°	5923.4	5935.2	5937.5	5946.9	5942.2	5946.9	5946.9	5942.2
12.5°	6078.7	6081.0	6074.0	6081.0	6071.6	6076.3	6069.3	6064.6
15°	6250.3	6243.3	6226.8	6226.8	6212.7	6215.0	6212.7	6210.3
17.5°	6417.4	6403.3	6391.5	6386.8	6375.0	6372.7	6365.6	6365.6
20°	6600.9	6593.8	6586.8	6577.4	6565.6	6553.8	6551.5	6556.2
22.5°	6822.0	6819.6	6819.6	6814.9	6798.4	6786.7	6779.6	6779.6
25°	7118.4	7097.2	7097.2	7094.9	7087.8	7080.8	7066.6	7073.7
27.5°	7452.4	7440.6	7450.0	7447.7	7440.6	7440.6	7431.2	7431.2
30°	7864.1	7859.4	7873.6	7861.8	7838.3	7835.9	7826.5	7814.7
32.5°	8339.3	8334.6	8355.8	8341.7	8304.0	8282.8	8264.0	8254.6
35°	8868.6	8870.9	8896.8	8887.4	8845.0	8830.9	8798.0	8793.3
37.5°	9447.3	9484.9	9529.6	9539.0	9503.7	9494.3	9459.0	9440.2
40°	10127.1	10176.5	10244.8	10261.2	10223.6	10216.5	10167.1	10141.2
42.5°	10851.7	10936.4	11021.1	11035.2	10997.5	10959.9	10912.8	10894.0
45°	11660.9	11762.1	11872.7	11900.9	11844.4	11799.7	11738.6	11738.6
47.5°	12568.9	12695.9	12820.6	12898.3	12846.5	12799.5	12726.5	12679.5
50°	13641.7	13815.8	13978.0	14058.0	13975.7	13886.3	13759.3	13717.0
52.5°	14987.3	15175.4	15316.5	15274.2	15147.1	15022.5	14883.7	14827.3
55°	16704.5	16768.0	16768.0	16608.0	16354.0	16144.6	15925.8	15852.9
57.5°	18852.3	18607.6	18231.2	17753.6	17153.8	16631.5	16278.7	16111.7
60°	21376.4	20200.2	18871.1	17565.5	16492.7	15608.3	15083.7	14843.7
62.5°	23058.3	19981.4	17318.5	15222.4	13679.3	12613.6	11889.1	11606.8
65°	21550.5	16664.5	13098.3	10590.6	8908.6	7824.1	7106.6	6843.1
67.5°	15784.6	10442.4	6974.9	4998.9	3662.7	2921.6	2627.7	2505.3
70°	7085.5	3676.8	2253.7	1759.6	1517.3	1392.6	1338.5	1319.7
72.5°	2136.0	1545.6	1303.2	1176.2	1079.7	1018.6	973.8	969.1
75°	1289.1	1072.7	952.8	877.5	816.3	766.9	743.4	736.3
77.5°	901.0	788.1	731.6	677.5	630.4	592.8	571.6	555.2
80°	632.8	578.7	552.8	522.2	491.6	456.3	425.8	411.6
82.5°	423.4	411.6	411.6	392.8	366.9	334.0	272.9	258.8
85°	272.9	270.6	275.3	268.2	249.4	214.1	176.5	167.0
87.5°	127.1	129.4	143.5	141.2	136.5	112.9	89.4	84.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)