

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: P190865

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190865
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-07-LED-E1-5NQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48734.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

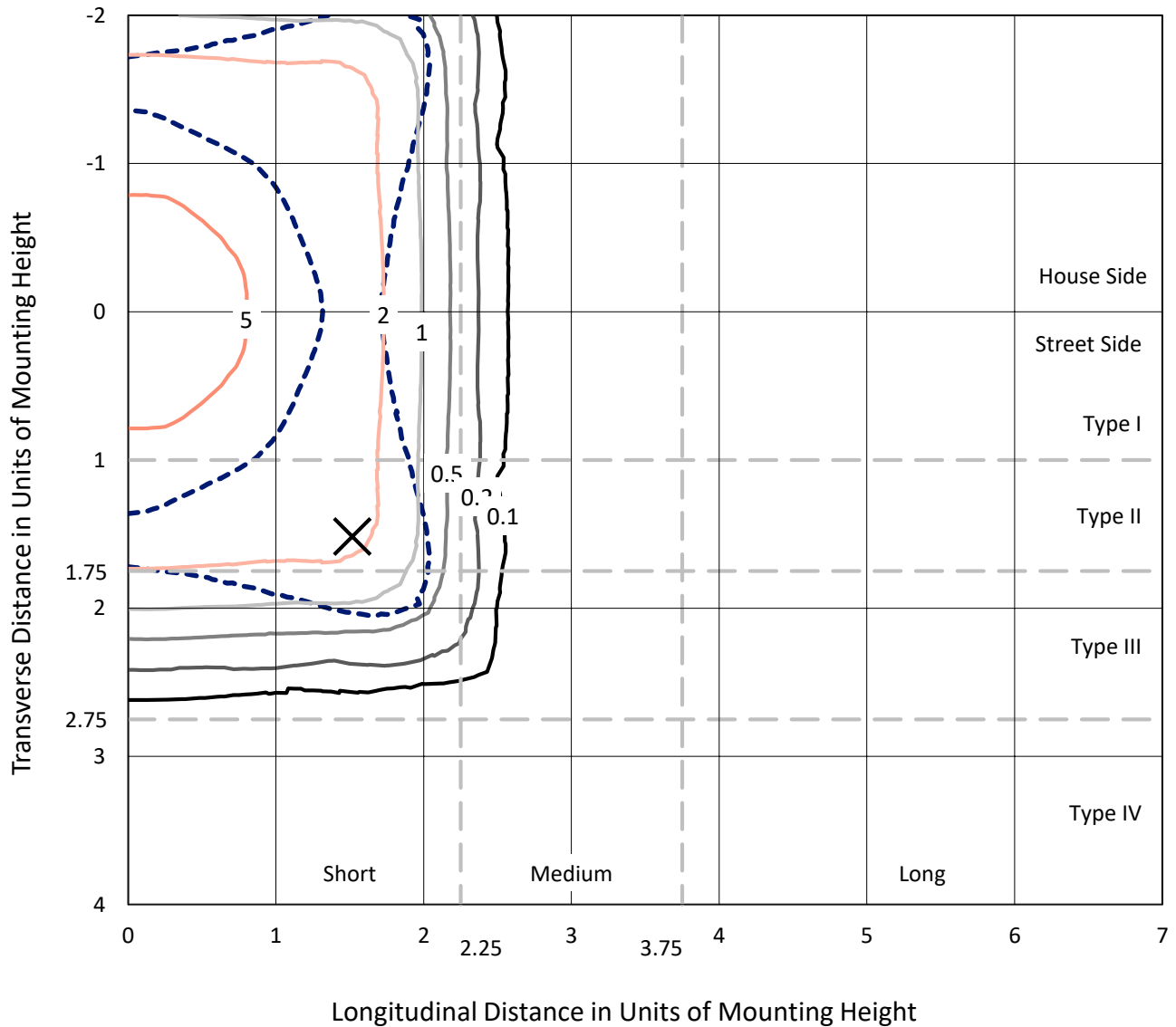
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

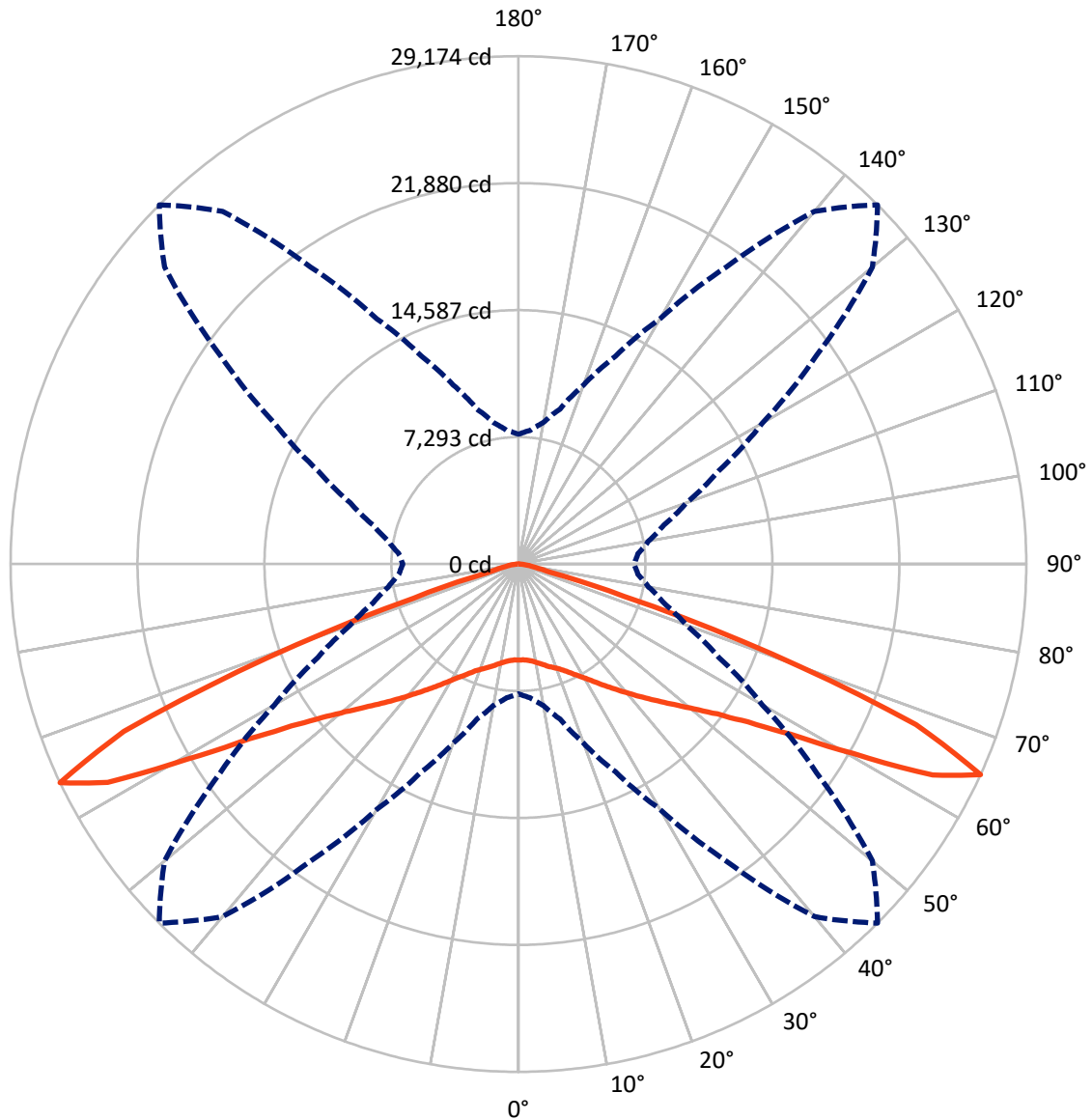
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	24367.2	0.0	24367.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24367.2	0.0	24367.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	48734.4	0.0	48734.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.5	1.1
10°-20°	1723.8	3.5
20°-30°	3223.1	6.6
30°-40°	5451.2	11.2
40°-50°	8913.2	18.3
50°-60°	14173.5	29.1
60°-70°	12811.9	26.3
70°-80°	1621.4	3.3
80°-90°	278.9	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°	48734.4	100.0
0°-180°	48734.4	100.0



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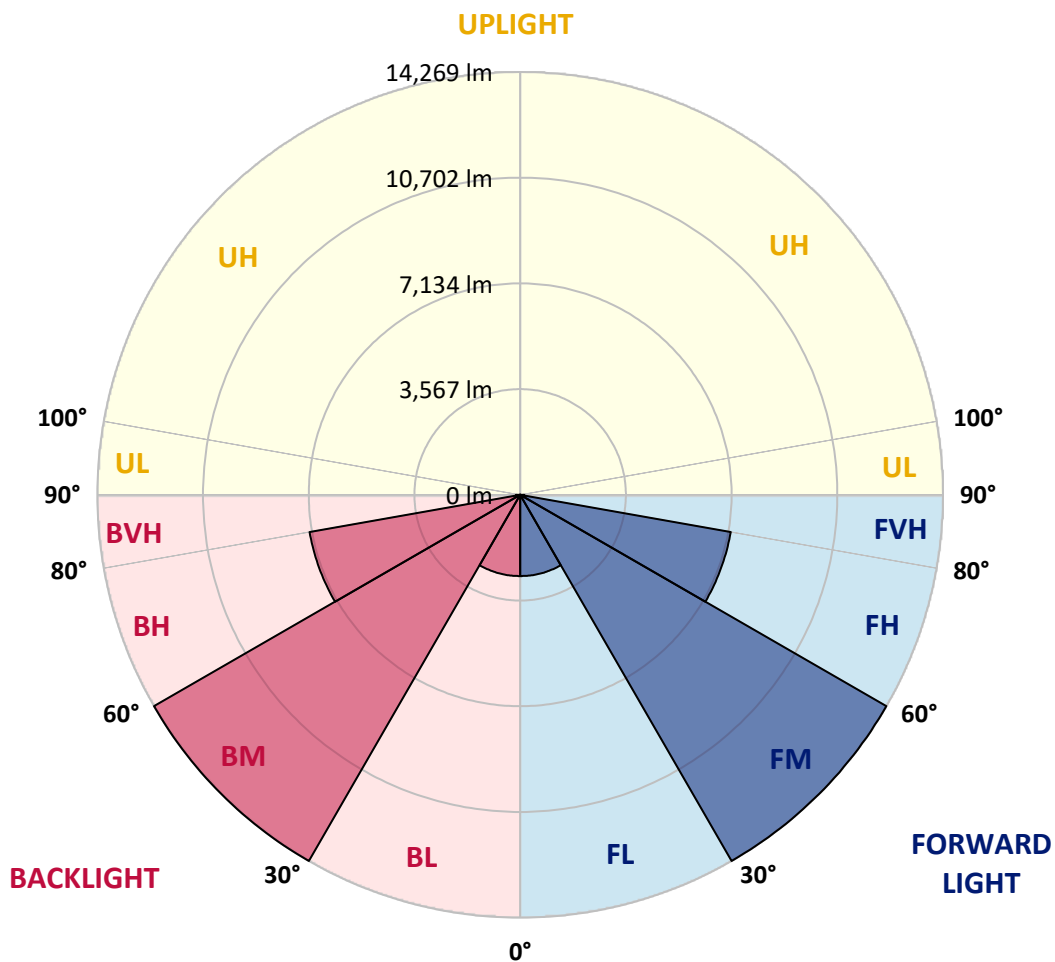
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2742.2	5.6			
FM	(30°-60°)	14268.9	29.3			
FH	(60°-80°)	7216.6	14.8			G3/7500
FVH	(80°-90°)	139.5	0.3			G2/225
BL	(0°-30°)	2742.2	5.6	B4/5000		
BM	(30°-60°)	14268.9	29.3	B5		
BH	(60°-80°)	7216.6	14.8	B5		G3/7500
BVH	(80°-90°)	139.5	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°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5518.9	5523.4	5528.0	5523.4	5528.0	5521.2	5516.6	5523.4	5516.6	5509.7	5514.3
5°	5566.8	5569.1	5569.1	5562.3	5569.1	5564.5	5557.7	5566.8	5559.9	5553.1	5557.7
7.5°	5646.7	5655.8	5648.9	5642.2	5646.7	5642.2	5637.6	5639.8	5637.6	5630.7	5633.0
10°	5754.0	5760.8	5756.2	5754.0	5758.5	5756.2	5751.7	5749.4	5751.7	5744.9	5744.9
12.5°	5884.1	5881.8	5879.5	5881.8	5888.6	5888.6	5886.4	5888.6	5893.2	5895.5	5891.0
15°	6011.9	6016.5	6016.5	6016.5	6030.2	6041.5	6048.4	6053.0	6062.1	6064.4	6055.3
17.5°	6171.7	6171.7	6169.4	6171.7	6185.4	6203.6	6210.4	6219.5	6228.7	6235.6	6224.1
20°	6349.7	6354.3	6354.3	6358.9	6377.1	6397.6	6397.6	6402.1	6397.6	6402.1	6395.4
22.5°	6566.5	6580.2	6580.2	6582.5	6600.8	6625.9	6619.0	6625.9	6614.4	6623.6	6614.4
25°	6849.6	6870.0	6865.5	6865.5	6879.2	6895.2	6897.5	6911.2	6908.9	6920.3	6913.4
27.5°	7169.0	7201.1	7210.2	7207.9	7217.0	7233.0	7237.6	7253.5	7244.4	7253.5	7248.9
30°	7552.5	7566.3	7584.5	7591.3	7602.8	7618.7	7618.7	7621.0	7609.6	7623.2	7630.1
32.5°	7949.7	7974.7	7993.0	8034.2	8054.6	8066.1	8063.8	8068.3	8057.0	8075.2	8088.9
35°	8474.6	8492.8	8522.5	8554.5	8581.9	8579.6	8572.7	8575.1	8575.1	8591.0	8604.8
37.5°	9106.8	9111.4	9150.2	9195.8	9209.5	9195.8	9154.8	9145.7	9125.1	9145.7	9168.5
40°	9775.6	9791.6	9869.2	9898.9	9905.7	9880.6	9821.2	9787.0	9741.4	9766.4	9798.4
42.5°	10476.3	10508.3	10579.1	10631.5	10654.3	10638.4	10556.1	10503.7	10444.3	10458.0	10490.0
45°	11252.4	11291.1	11391.6	11441.8	11485.2	11460.0	11380.1	11300.2	11206.6	11213.5	11263.7
47.5°	12119.6	12158.5	12288.5	12373.0	12395.8	12391.2	12302.2	12192.7	12064.9	12060.3	12103.7
50°	13091.9	13130.8	13292.8	13422.9	13489.1	13482.3	13377.2	13222.0	13066.9	13069.1	13123.9
52.5°	14041.4	14089.4	14258.3	14481.9	14612.0	14705.6	14641.7	14495.6	14306.2	14310.8	14361.0
55°	14931.6	15011.5	15205.4	15509.1	15751.0	16013.5	16088.8	16084.2	15970.1	16002.0	16052.2
57.5°	15363.0	15481.6	15780.7	16259.9	16753.0	17287.1	17739.0	18076.8	18220.6	18437.4	18387.1
60°	14545.8	14735.3	15175.8	15881.1	16855.7	17969.5	19163.1	20329.5	21324.6	22075.6	21644.2
62.5°	11909.7	12156.1	12690.2	13594.1	15068.6	16851.1	19135.8	21893.0	24896.6	26708.8	25414.7
65°	7452.1	7707.7	8250.9	9218.7	10944.2	13160.5	16259.9	20829.3	26441.8	29173.8	26539.9
67.5°	2905.5	3044.7	3339.2	3957.7	5254.1	7226.1	10337.1	15522.8	22235.4	24629.6	21822.2
70°	1456.2	1469.9	1524.6	1638.8	1917.2	2490.2	3788.8	7196.5	12751.9	15401.8	12293.1
72.5°	1052.2	1054.5	1081.9	1132.1	1221.1	1348.9	1595.4	2202.5	4147.1	6338.3	3887.0
75°	805.7	814.8	830.8	858.2	906.1	970.1	1059.1	1269.1	1572.6	1823.6	1533.8
77.5°	620.8	639.0	650.5	675.6	705.2	748.6	773.8	853.7	992.9	1045.4	1029.4
80°	472.5	488.5	513.5	534.1	554.6	575.2	566.0	602.5	675.6	718.9	696.1
82.5°	301.3	319.6	392.6	410.8	419.9	433.6	417.7	419.9	451.9	479.4	451.9
85°	194.1	205.4	248.8	271.6	273.8	283.1	276.2	260.2	260.2	237.3	267.1
87.5°	89.0	91.2	111.8	132.4	137.0	123.3	121.0	116.4	93.6	89.0	95.9
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°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5512.1	5516.6	5518.9	5525.8	5528.0	5528.0	5530.3	5534.9
5°	5555.4	5562.3	5564.5	5573.6	5575.9	5573.6	5578.3	5580.5
7.5°	5633.0	5644.4	5648.9	5658.1	5651.3	5660.4	5662.6	5662.6
10°	5747.1	5758.5	5760.8	5770.0	5765.4	5770.0	5770.0	5765.4
12.5°	5897.7	5900.1	5893.2	5900.1	5891.0	5895.5	5888.6	5884.1
15°	6064.4	6057.5	6041.5	6041.5	6027.8	6030.2	6027.8	6025.6
17.5°	6226.4	6212.8	6201.3	6196.7	6185.4	6183.0	6176.3	6176.3
20°	6404.5	6397.6	6390.8	6381.7	6370.2	6358.9	6356.5	6361.1
22.5°	6619.0	6616.8	6616.8	6612.1	6596.2	6584.7	6577.9	6577.9
25°	6906.6	6886.1	6886.1	6883.7	6876.9	6870.0	6856.4	6863.3
27.5°	7230.7	7219.3	7228.4	7226.1	7219.3	7219.3	7210.2	7210.2
30°	7630.1	7625.6	7639.3	7627.8	7605.0	7602.8	7593.6	7582.2
32.5°	8091.1	8086.6	8107.2	8093.5	8057.0	8036.4	8018.1	8009.0
35°	8604.8	8607.0	8632.1	8623.0	8581.9	8568.2	8536.2	8531.7
37.5°	9166.2	9202.7	9246.0	9255.2	9221.0	9211.9	9177.6	9159.3
40°	9825.9	9873.7	9939.9	9955.9	9919.3	9912.5	9864.6	9839.5
42.5°	10528.8	10611.0	10693.1	10706.8	10670.3	10633.8	10588.2	10569.8
45°	11313.9	11412.1	11519.3	11546.8	11491.9	11448.7	11389.2	11389.2
47.5°	12195.0	12318.2	12439.2	12514.5	12464.2	12418.6	12347.8	12302.2
50°	13235.8	13404.6	13562.2	13639.7	13559.8	13473.1	13349.9	13308.8
52.5°	14541.2	14723.8	14860.8	14819.8	14696.5	14575.5	14440.9	14386.1
55°	16207.4	16269.1	16269.1	16113.8	15867.4	15664.2	15452.0	15381.2
57.5°	18291.3	18054.0	17688.8	17225.4	16643.4	16136.7	15794.4	15632.3
60°	20740.3	19599.1	18309.6	17042.8	16002.0	15143.9	14634.8	14402.0
62.5°	22372.2	19386.9	16803.2	14769.6	13272.3	12238.4	11535.3	11261.5
65°	20909.2	16168.7	12708.5	10275.4	8643.5	7591.3	6895.2	6639.6
67.5°	15315.0	10131.6	6767.3	4850.1	3553.7	2834.8	2549.5	2430.7
70°	6874.6	3567.4	2186.6	1707.2	1472.1	1351.2	1298.7	1280.4
72.5°	2072.4	1499.5	1264.5	1141.2	1047.6	988.3	944.9	940.4
75°	1250.8	1040.8	924.3	851.3	792.0	744.1	721.3	714.4
77.5°	874.2	764.7	709.8	657.3	611.7	575.2	554.6	538.7
80°	614.0	561.5	536.3	506.7	477.0	442.8	413.1	399.5
82.5°	410.8	399.5	399.5	381.2	356.1	324.1	264.7	251.0
85°	264.7	262.5	267.1	260.2	241.9	207.7	171.1	162.0
87.5°	123.3	125.5	139.2	137.0	132.4	109.6	86.7	82.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)