

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: P191668

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191668
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 66669 lumens
Efficiency: N/A
Efficacy: 104.2 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 - G4

Input Watts (W): 640
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

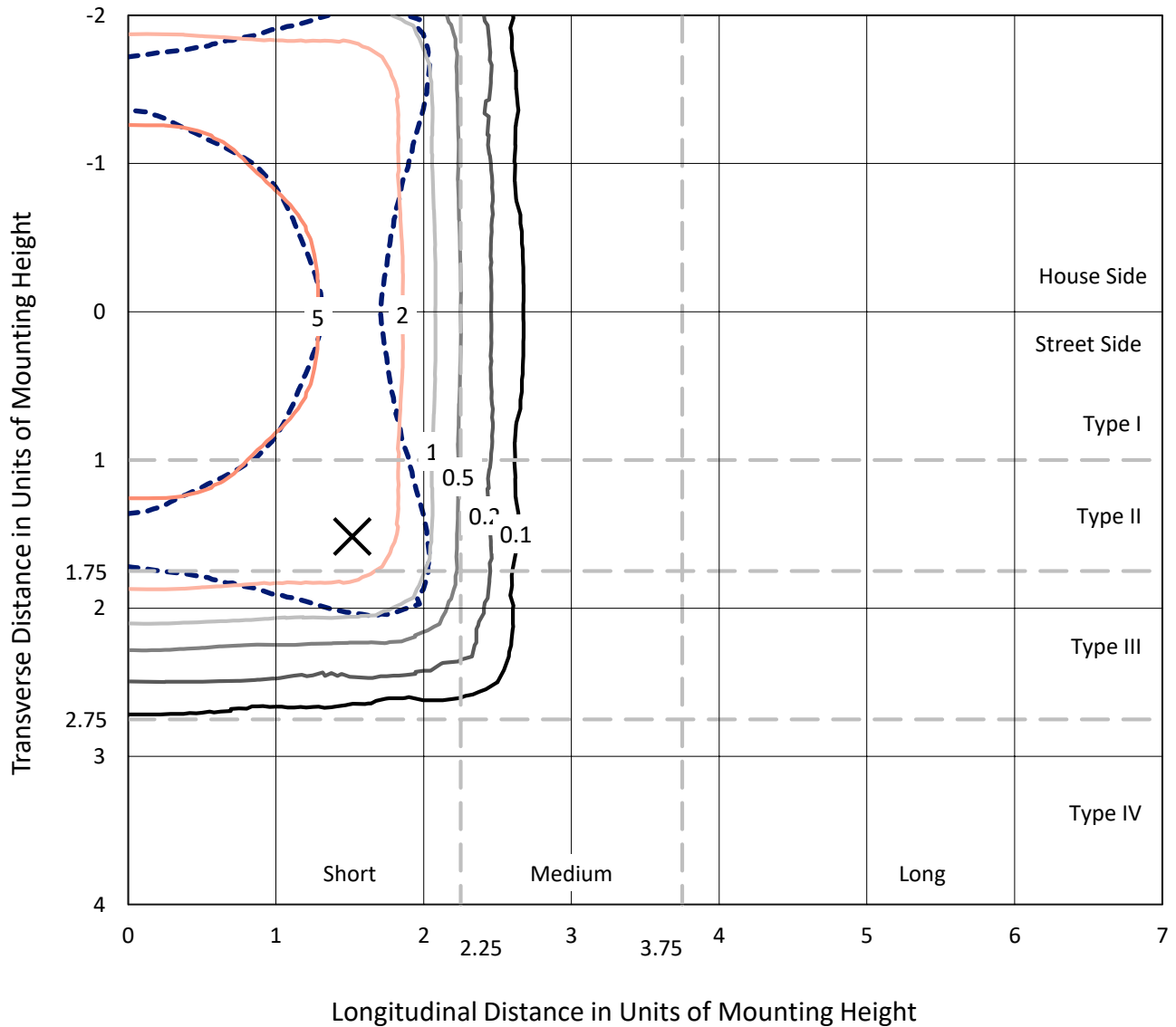


REPORT NUMBER: P191668

CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

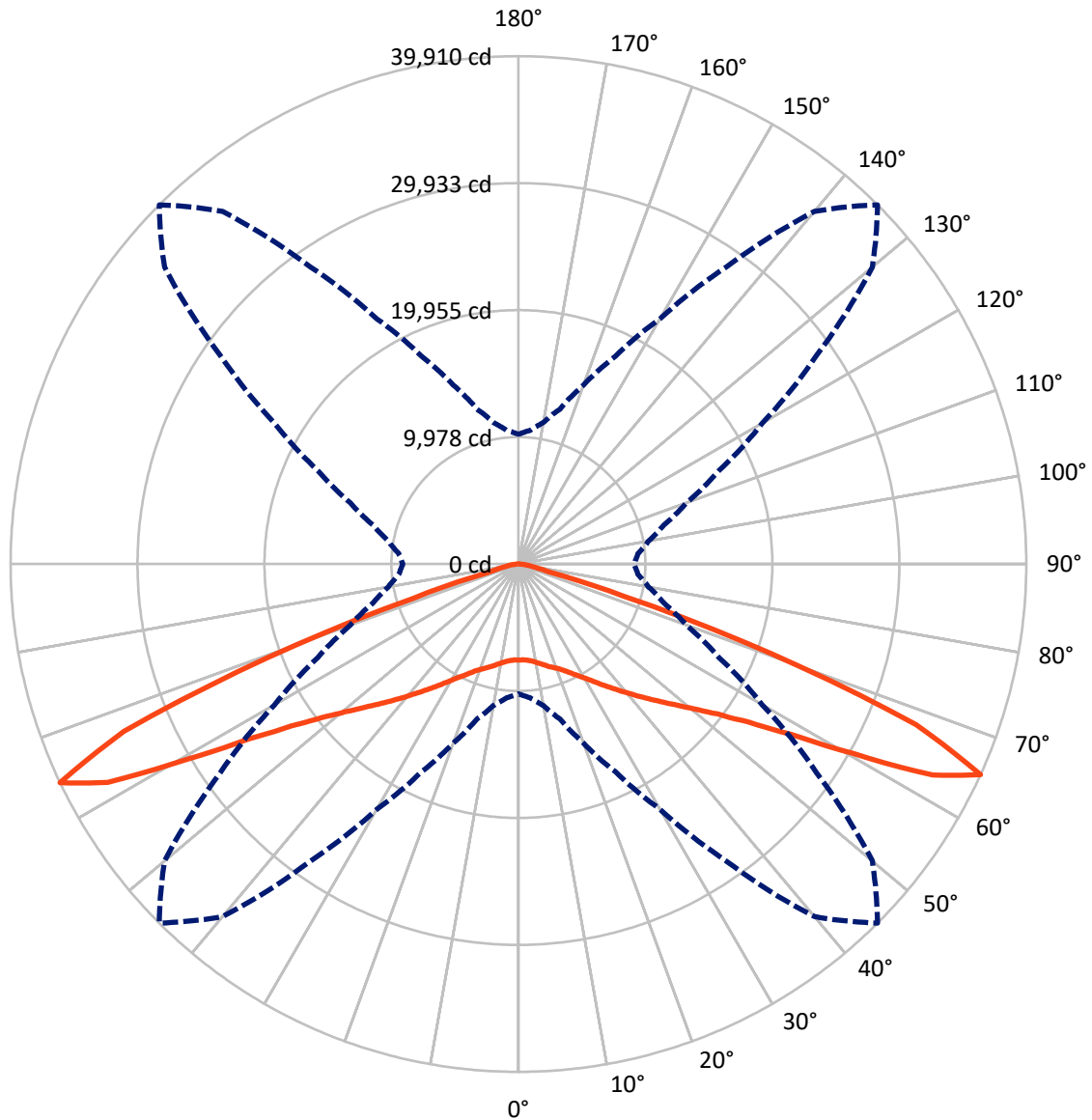


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P191668

CATALOG NUMBER: GLEON-AF-10-LED-E1-5NQ-7050-1200

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	33334.5	0.0	33334.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33334.5	0.0	33334.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	66669.0	0.0	66669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.3	1.1
10°-20°	2358.1	3.5
20°-30°	4409.2	6.6
30°-40°	7457.2	11.2
40°-50°	12193.4	18.3
50°-60°	19389.4	29.1
60°-70°	17526.7	26.3
70°-80°	2218.1	3.3
80°-90°	381.5	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°	66669.0	100.0
0°-180°	66669.0	100.0



REPORT NUMBER: P191668

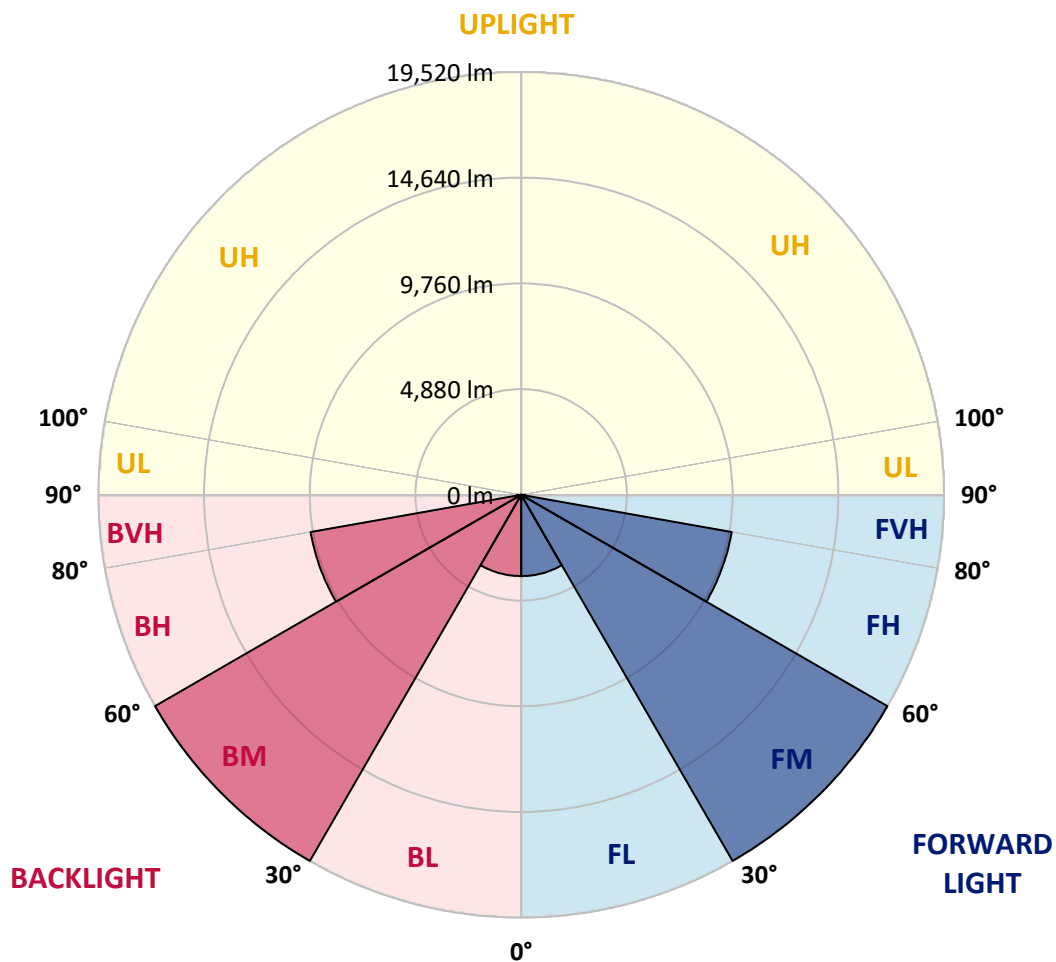
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3751.3	5.6			
FM	(30°-60°)	19520.0	29.3			
FH	(60°-80°)	9872.4	14.8			G4/12000
FVH	(80°-90°)	190.8	0.3			G2/225
BL	(0°-30°)	3751.3	5.6	B4/5000		
BM	(30°-60°)	19520.0	29.3	B5		
BH	(60°-80°)	9872.4	14.8	B5		G4/12000
BVH	(80°-90°)	190.8	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-G4

Type V Short





REPORT NUMBER: P191668

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6
2.5°	7549.9	7556.1	7562.4	7556.1	7562.4	7553.0	7546.8	7556.1	7546.8	7537.4	7543.6
5°	7615.4	7618.6	7618.6	7609.2	7618.6	7612.3	7603.0	7615.4	7606.1	7596.7	7603.0
7.5°	7724.7	7737.2	7727.9	7718.5	7724.7	7718.5	7712.2	7715.4	7712.2	7702.9	7706.0
10°	7871.5	7880.8	7874.6	7871.5	7877.7	7874.6	7868.4	7865.2	7868.4	7859.0	7859.0
12.5°	8049.5	8046.3	8043.2	8046.3	8055.7	8055.7	8052.6	8055.7	8061.9	8065.1	8058.8
15°	8224.3	8230.6	8230.6	8230.6	8249.3	8264.9	8274.3	8280.5	8293.0	8296.1	8283.6
17.5°	8442.9	8442.9	8439.8	8442.9	8461.6	8486.6	8496.0	8508.4	8520.9	8530.3	8514.7
20°	8686.4	8692.7	8692.7	8698.9	8723.9	8752.0	8752.0	8758.2	8752.0	8758.2	8748.9
22.5°	8983.0	9001.8	9001.8	9004.9	9029.9	9064.2	9054.9	9064.2	9048.6	9061.1	9048.6
25°	9370.2	9398.3	9392.1	9392.1	9410.8	9432.7	9435.8	9454.5	9451.4	9467.0	9457.6
27.5°	9807.3	9851.1	9863.6	9860.4	9872.9	9894.8	9901.0	9922.9	9910.4	9922.9	9916.6
30°	10331.9	10350.6	10375.6	10385.0	10400.6	10422.5	10422.5	10425.6	10410.0	10428.7	10438.1
32.5°	10875.2	10909.5	10934.5	10990.7	11018.8	11034.4	11031.3	11037.6	11021.9	11046.9	11065.7
35°	11593.3	11618.3	11658.9	11702.6	11740.1	11737.0	11727.6	11730.7	11730.7	11752.6	11771.3
37.5°	12458.2	12464.5	12517.6	12580.0	12598.7	12580.0	12523.8	12511.3	12483.2	12511.3	12542.5
40°	13373.1	13394.9	13501.1	13541.7	13551.1	13516.7	13435.5	13388.7	13326.3	13360.6	13404.3
42.5°	14331.7	14375.4	14472.2	14544.0	14575.2	14553.3	14440.9	14369.1	14287.9	14306.7	14350.4
45°	15393.3	15446.3	15583.7	15652.4	15711.7	15677.4	15568.1	15458.8	15330.8	15340.2	15408.9
47.5°	16579.8	16632.8	16810.8	16926.3	16957.6	16951.3	16829.5	16679.7	16504.8	16498.6	16557.9
50°	17909.9	17963.0	18184.7	18362.6	18453.2	18443.8	18300.2	18087.9	17875.5	17878.7	17953.6
52.5°	19208.8	19274.4	19505.4	19811.4	19989.4	20117.4	20030.0	19830.1	19571.0	19577.2	19645.9
55°	20426.5	20535.8	20801.2	21216.5	21547.4	21906.5	22009.5	22003.3	21847.2	21890.9	21959.6
57.5°	21016.6	21179.0	21588.0	22243.7	22918.2	23648.8	24267.0	24729.1	24925.8	25222.5	25153.8
60°	19898.8	20158.0	20760.6	21725.4	23058.7	24582.4	26215.4	27810.9	29172.3	30199.5	29609.4
62.5°	16292.5	16629.7	17360.3	18596.8	20613.9	23052.4	26177.9	29949.7	34058.8	36537.9	34767.5
65°	10194.5	10544.2	11287.3	12611.2	14971.7	18003.6	22243.7	28494.7	36172.6	39910.1	36306.9
67.5°	3974.8	4165.2	4568.0	5414.2	7187.7	9885.4	14141.2	21235.2	30418.1	33693.4	29852.9
70°	1992.1	2010.8	2085.7	2241.9	2622.8	3406.5	5183.1	9844.8	17444.7	21069.7	16817.1
72.5°	1439.4	1442.5	1480.0	1548.7	1670.5	1845.3	2182.5	3013.1	5673.3	8670.8	5317.4
75°	1102.2	1114.7	1136.5	1174.0	1239.6	1327.0	1448.8	1736.0	2151.3	2494.8	2098.2
77.5°	849.3	874.3	889.9	924.2	964.8	1024.1	1058.5	1167.8	1358.2	1430.0	1408.2
80°	646.3	668.2	702.5	730.6	758.7	786.8	774.3	824.3	924.2	983.5	952.3
82.5°	412.2	437.1	537.0	562.0	574.5	593.2	571.4	574.5	618.2	655.7	618.2
85°	265.4	281.0	340.3	371.6	374.7	387.2	377.8	355.9	355.9	324.7	365.3
87.5°	121.8	124.9	153.0	181.1	187.3	168.6	165.5	159.2	128.0	121.8	131.1
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°	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6	7543.6
2.5°	7540.5	7546.8	7549.9	7559.2	7562.4	7562.4	7565.5	7571.7
5°	7599.8	7609.2	7612.3	7624.8	7627.9	7624.8	7631.1	7634.2
7.5°	7706.0	7721.6	7727.9	7740.3	7731.0	7743.5	7746.6	7746.6
10°	7862.1	7877.7	7880.8	7893.3	7887.1	7893.3	7893.3	7887.1
12.5°	8068.2	8071.3	8061.9	8071.3	8058.8	8065.1	8055.7	8049.5
15°	8296.1	8286.8	8264.9	8264.9	8246.2	8249.3	8246.2	8243.0
17.5°	8517.8	8499.1	8483.5	8477.2	8461.6	8458.5	8449.1	8449.1
20°	8761.4	8752.0	8742.6	8730.1	8714.5	8698.9	8695.8	8702.0
22.5°	9054.9	9051.7	9051.7	9045.5	9023.6	9008.0	8998.7	8998.7
25°	9448.3	9420.2	9420.2	9417.1	9407.7	9398.3	9379.6	9389.0
27.5°	9891.7	9876.0	9888.5	9885.4	9876.0	9876.0	9863.6	9863.6
30°	10438.1	10431.8	10450.6	10434.9	10403.7	10400.6	10388.1	10372.5
32.5°	11068.8	11062.5	11090.6	11071.9	11021.9	10993.8	10968.9	10956.4
35°	11771.3	11774.4	11808.8	11796.3	11740.1	11721.4	11677.6	11671.4
37.5°	12539.4	12589.4	12648.7	12661.2	12614.4	12601.9	12555.0	12530.0
40°	13441.8	13507.3	13597.9	13619.8	13569.8	13560.4	13494.9	13460.5
42.5°	14403.5	14515.9	14628.3	14647.0	14597.1	14547.1	14484.6	14459.7
45°	15477.6	15611.8	15758.6	15796.0	15721.1	15661.8	15580.6	15580.6
47.5°	16682.8	16851.4	17016.9	17119.9	17051.2	16988.8	16892.0	16829.5
50°	18106.6	18337.6	18553.1	18659.3	18550.0	18431.3	18262.7	18206.5
52.5°	19892.6	20142.4	20329.7	20273.5	20104.9	19939.4	19755.2	19680.3
55°	22171.9	22256.2	22256.2	22043.9	21706.7	21428.8	21138.4	21041.6
57.5°	25022.6	24697.9	24198.3	23564.5	22768.3	22075.1	21606.8	21385.1
60°	28372.9	26811.7	25047.6	23314.7	21890.9	20716.9	20020.6	19702.1
62.5°	30605.4	26521.4	22986.8	20204.8	18156.6	16742.1	15780.4	15405.7
65°	28604.0	22118.8	17385.3	14056.9	11824.4	10385.0	9432.7	9083.0
67.5°	20951.1	13860.2	9257.8	6635.0	4861.5	3878.0	3487.7	3325.3
70°	9404.6	4880.3	2991.2	2335.5	2013.9	1848.4	1776.6	1751.6
72.5°	2835.1	2051.4	1729.8	1561.2	1433.2	1352.0	1292.7	1286.4
75°	1711.1	1423.8	1264.6	1164.6	1083.5	1017.9	986.7	977.3
77.5°	1195.9	1046.0	971.1	899.2	836.8	786.8	758.7	736.9
80°	839.9	768.1	733.8	693.2	652.6	605.7	565.1	546.4
82.5°	562.0	546.4	546.4	521.4	487.1	443.4	362.2	343.5
85°	362.2	359.1	365.3	355.9	331.0	284.1	234.2	221.7
87.5°	168.6	171.7	190.5	187.3	181.1	149.9	118.6	112.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)