

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: P191018

Luminaire Tested: **GLEON-AF-10-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191018
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: GLEON-AF-10-LED-E1-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61607.2 lumens
Efficiency: N/A
Efficacy: 110.4 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): 558
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

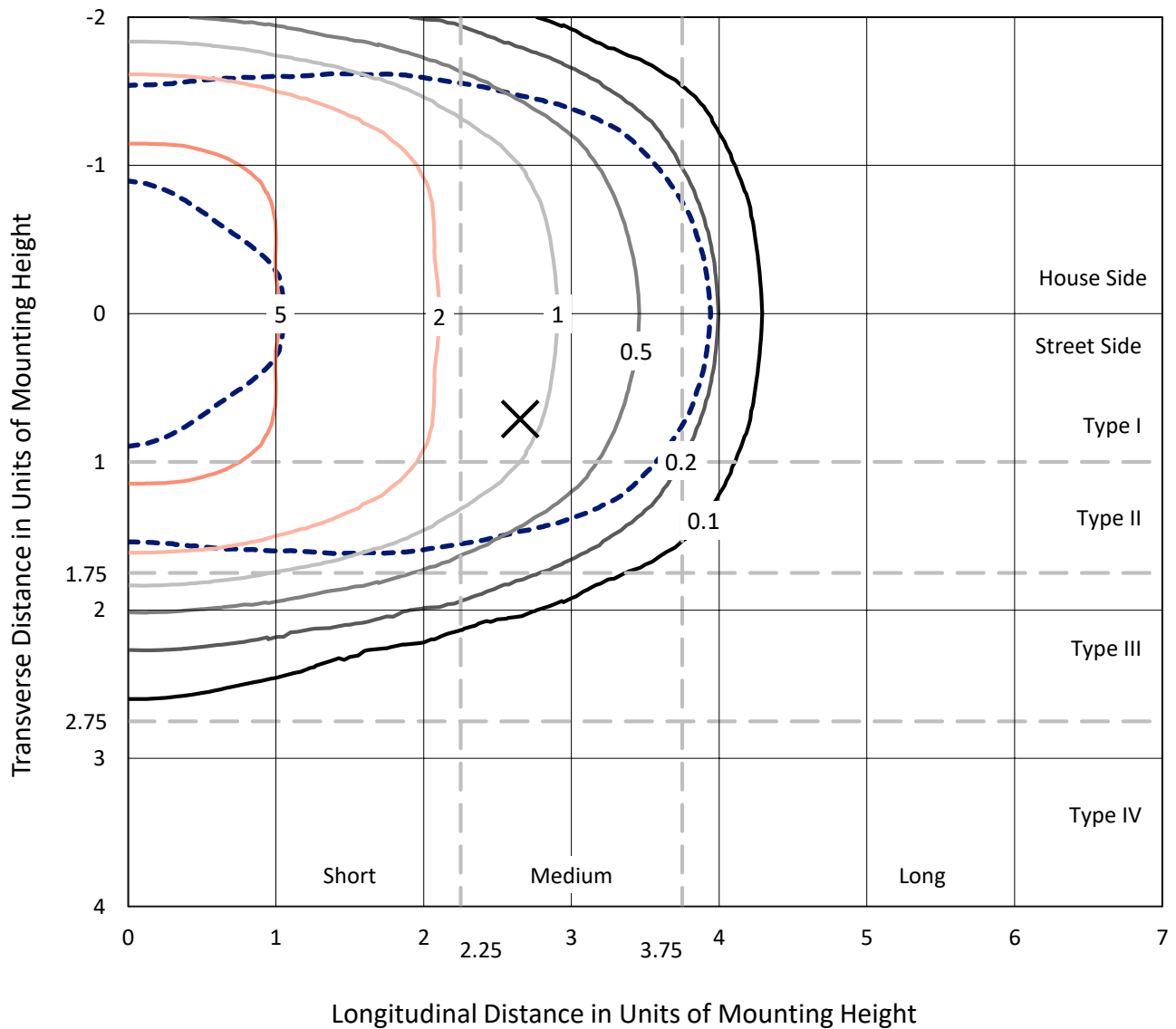


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

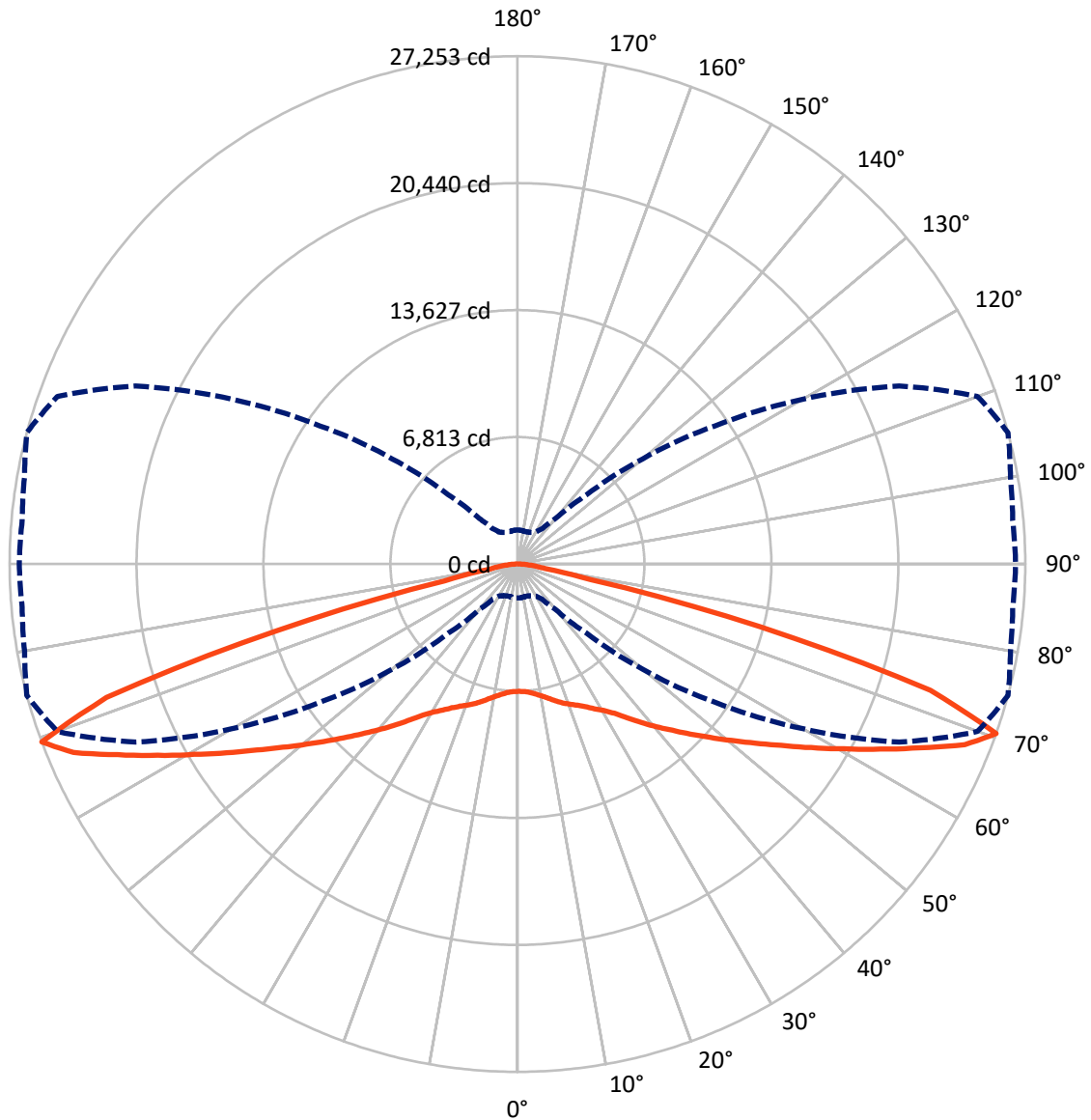


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - Full Cutoff

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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	30803.6	0.0	30803.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30803.6	0.0	30803.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	61607.2	0.0	61607.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.4	1.1
10°-20°	2036.4	3.3
20°-30°	3832.9	6.2
30°-40°	6787.3	11.0
40°-50°	11350.5	18.4
50°-60°	15817.0	25.7
60°-70°	14667.7	23.8
70°-80°	5845.5	9.5
80°-90°	614.5	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°	61607.2	100.0
0°-180°	61607.2	100.0



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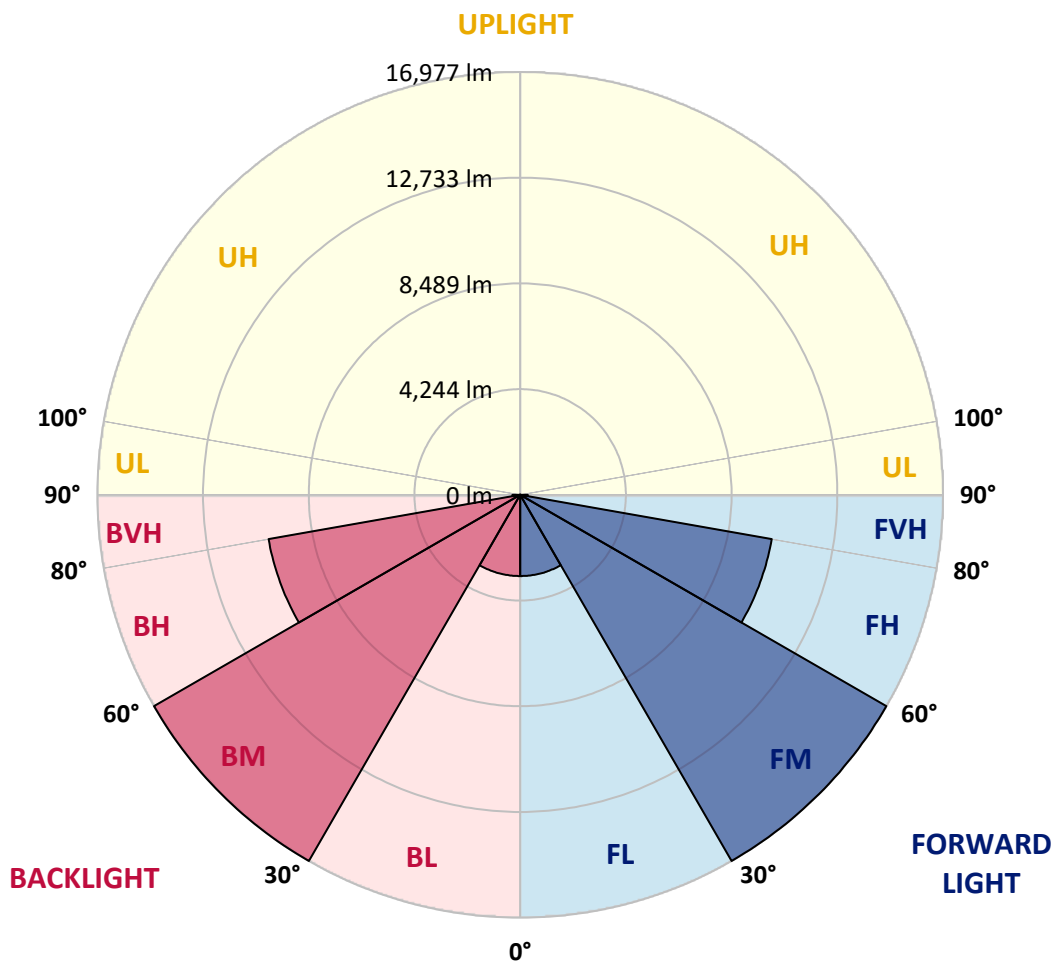
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3262.4	5.3			
FM	(30°-60°)	16977.4	27.6			
FH	(60°-80°)	10256.6	16.6			G4/12000
FVH	(80°-90°)	307.2	0.5			G3/500
BL	(0°-30°)	3262.4	5.3	B4/5000		
BM	(30°-60°)	16977.4	27.6	B5		
BH	(60°-80°)	10256.6	16.6	B5		G5
BVH	(80°-90°)	307.2	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°	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7
2.5°	6822.1	6816.2	6822.1	6819.1	6824.9	6824.9	6830.8	6842.4	6842.4	6851.1	6848.2
5°	6755.1	6752.2	6760.9	6769.6	6778.4	6795.9	6813.3	6839.4	6859.9	6874.4	6889.0
7.5°	6624.0	6624.0	6635.7	6656.0	6676.5	6714.3	6755.1	6807.4	6859.9	6903.6	6941.4
10°	6516.3	6522.1	6536.7	6571.6	6606.5	6664.8	6720.1	6795.9	6868.6	6941.4	6999.6
12.5°	6452.3	6461.0	6487.1	6539.6	6597.8	6676.5	6760.9	6856.9	6938.5	7025.8	7084.0
15°	6472.6	6478.4	6516.3	6580.3	6656.0	6755.1	6868.6	6982.2	7078.2	7171.4	7250.1
17.5°	6586.2	6595.0	6638.6	6711.4	6790.0	6906.5	7028.8	7156.9	7276.2	7381.1	7477.2
20°	6790.0	6798.7	6854.1	6932.6	7025.8	7145.2	7267.6	7401.5	7535.4	7646.0	7753.8
22.5°	7078.2	7092.8	7145.2	7223.9	7328.6	7456.8	7602.4	7745.1	7873.1	7975.0	8071.1
25°	7456.8	7488.8	7538.3	7625.7	7736.3	7852.8	8010.0	8155.6	8277.8	8374.0	8443.8
27.5°	7992.5	8036.2	8074.0	8158.4	8266.3	8376.8	8534.1	8662.2	8778.7	8871.8	8924.2
30°	8703.0	8746.6	8784.5	8866.0	8965.0	9069.8	9218.3	9331.9	9404.7	9477.4	9474.6
32.5°	9564.8	9611.4	9626.0	9713.3	9815.2	9928.8	10062.7	10126.8	10185.0	10193.7	10141.3
35°	10528.6	10551.8	10610.1	10726.6	10843.1	10936.2	11064.3	11096.4	11096.4	11052.7	10936.2
37.5°	11585.5	11600.1	11681.6	11812.6	11932.0	12028.1	12115.4	12179.5	12147.4	12054.2	11859.2
40°	12744.3	12770.5	12887.0	13003.4	13137.5	13227.7	13320.9	13332.5	13300.5	13163.6	12898.7
42.5°	13850.8	13874.1	13990.6	14174.0	14348.7	14473.8	14561.2	14578.7	14476.8	14351.6	14022.6
45°	14802.9	14864.1	15015.5	15230.9	15484.2	15661.9	15781.3	15830.7	15740.5	15577.4	15195.9
47.5°	15557.0	15618.2	15833.6	16089.9	16404.3	16692.6	16890.6	16995.4	16972.1	16849.8	16433.4
50°	16110.2	16168.5	16401.4	16715.8	17082.8	17440.9	17778.6	18029.0	18116.4	18061.0	17679.7
52.5°	16174.3	16270.3	16544.1	16966.3	17443.8	17932.9	18413.3	18838.5	19126.7	19170.4	18888.0
55°	15280.4	15376.5	15755.0	16381.0	17091.5	17889.3	18657.9	19374.2	19942.0	20233.1	20084.6
57.5°	13172.3	13344.2	13743.0	14476.8	15522.1	16715.8	17941.6	19214.1	20370.0	21141.6	21290.1
60°	10094.8	10298.6	10700.4	11480.7	12645.3	14069.2	15705.5	17586.5	19627.6	21362.9	22399.5
62.5°	6475.6	6667.7	7089.9	7768.3	8717.5	10260.7	12016.4	14249.7	16992.4	19732.3	22201.4
65°	3328.1	3432.8	3654.2	4064.7	4804.3	5957.3	7532.5	9759.9	12895.7	16276.2	19845.9
67.5°	2108.0	2128.5	2178.0	2236.2	2425.4	2824.3	3558.0	4946.9	7526.7	11052.7	15230.9
70°	1822.7	1822.7	1799.4	1790.7	1814.0	1869.2	1982.9	2306.0	3176.7	5246.8	8784.5
72.5°	1668.4	1650.9	1610.1	1578.1	1572.3	1572.3	1595.6	1645.1	1784.8	2137.1	3438.6
75°	1537.4	1487.9	1432.5	1394.7	1380.2	1365.5	1362.7	1371.4	1400.5	1455.9	1642.1
77.5°	1377.2	1313.2	1249.1	1211.3	1193.8	1173.4	1155.9	1135.6	1120.9	1138.4	1220.0
80°	1185.1	1112.3	1062.7	1039.4	1022.0	992.9	955.0	920.0	888.0	882.2	931.7
82.5°	955.0	870.6	873.5	882.2	850.2	809.5	768.6	730.8	675.6	646.4	675.6
85°	771.6	727.9	707.6	762.8	716.3	655.1	591.1	524.1	436.8	366.8	398.8
87.5°	299.9	299.9	448.4	690.1	620.2	506.7	433.8	369.8	230.1	177.6	180.6
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°	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7	6833.7
2.5°	6845.3	6851.1	6848.2	6845.3	6845.3	6842.4	6845.3	6845.3
5°	6897.8	6912.3	6912.3	6918.1	6918.1	6921.0	6923.9	6921.0
7.5°	6976.3	7002.5	7020.0	7040.4	7043.3	7046.2	7052.0	7046.2
10°	7055.0	7107.4	7145.2	7183.1	7200.6	7206.4	7212.2	7212.2
12.5°	7154.0	7226.7	7293.7	7360.6	7392.8	7410.2	7410.2	7421.8
15°	7317.0	7389.8	7468.5	7558.7	7614.0	7643.1	7651.9	7651.9
17.5°	7547.0	7611.1	7678.1	7765.4	7835.3	7873.1	7881.8	7879.0
20°	7814.9	7876.0	7913.9	7969.2	8030.4	8074.0	8085.7	8085.7
22.5°	8120.6	8155.6	8161.4	8178.9	8228.4	8286.6	8312.8	8318.6
25°	8458.4	8467.2	8443.8	8443.8	8475.9	8531.2	8557.4	8560.3
27.5°	8895.2	8851.5	8793.2	8772.8	8793.2	8857.3	8889.3	8901.0
30°	9439.6	9334.8	9200.8	9128.1	9116.4	9200.8	9259.1	9267.8
32.5°	10062.7	9911.3	9733.7	9585.2	9547.3	9599.8	9669.6	9666.7
35°	10802.3	10621.7	10406.3	10217.0	10129.7	10182.0	10281.1	10292.7
37.5°	11655.4	11419.5	11172.1	10933.3	10796.4	10811.1	10915.8	10950.8
40°	12607.5	12301.8	11990.2	11669.9	11474.8	11437.0	11565.2	11585.5
42.5°	13626.6	13233.5	12840.5	12444.4	12194.1	12135.8	12284.3	12275.6
45°	14712.6	14211.9	13751.8	13315.0	13018.1	12930.7	13053.0	13053.0
47.5°	15880.2	15262.9	14715.6	14220.6	13897.4	13772.2	13888.6	13897.4
50°	17117.6	16462.6	15819.1	15268.8	14881.5	14721.4	14872.8	14896.1
52.5°	18349.3	17711.7	17062.3	16433.4	15964.7	15769.6	15944.2	16020.0
55°	19598.4	18972.4	18352.2	17737.9	17181.7	16951.7	17138.0	17234.2
57.5°	20917.4	20338.0	19746.9	19126.7	18591.0	18232.9	18430.8	18559.0
60°	22463.5	21968.5	21354.1	20669.9	20128.3	19764.3	19878.0	19991.5
62.5°	23686.4	23878.5	23357.3	22565.4	21869.5	21403.6	21514.3	21633.7
65°	23095.4	25066.5	25529.5	24728.8	23765.0	23040.0	22993.4	23054.5
67.5°	19304.3	23133.2	25925.5	26688.3	25881.8	24874.4	24688.0	24778.2
70°	12913.2	17682.5	22609.1	26277.8	27253.1	26863.0	26679.6	26734.9
72.5°	6201.8	10298.6	15338.6	20215.7	23185.6	24548.3	24985.0	25197.5
75°	2268.2	4088.0	7392.8	11140.0	13448.9	15568.7	16951.7	17516.6
77.5°	1368.5	1650.9	2361.4	3555.2	4026.8	4507.2	4320.9	4414.0
80°	1013.2	1144.3	1295.7	1455.9	1508.2	1508.2	1450.0	1403.4
82.5°	710.4	794.9	867.7	955.0	978.4	934.7	768.6	611.4
85°	457.2	495.0	527.0	582.4	567.7	541.6	364.0	323.2
87.5°	209.6	238.8	250.4	276.6	264.9	253.3	180.6	151.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)