

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: P190908

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69639.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

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

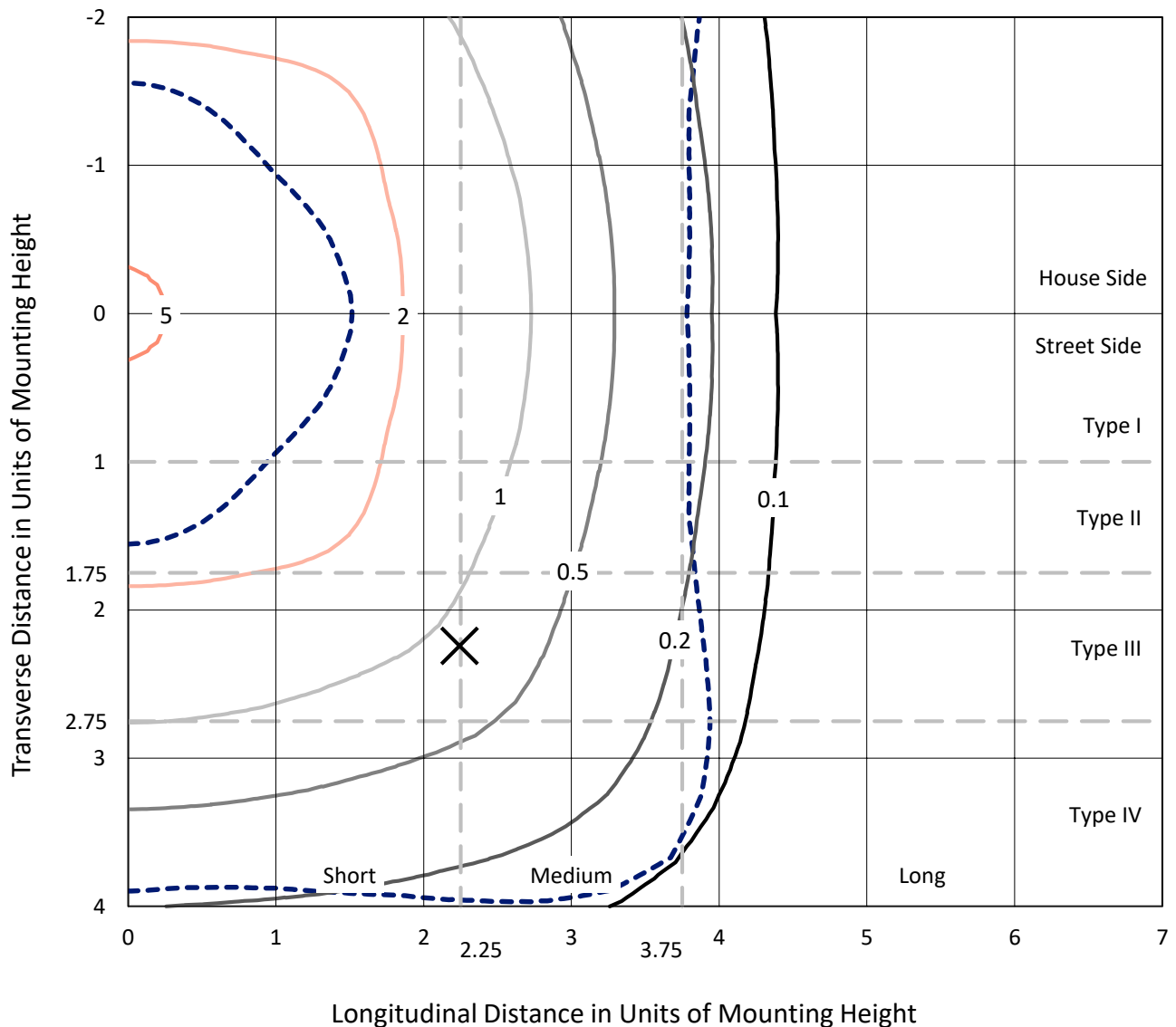


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Iso-Footcandle Lines of Horizontal Illumination

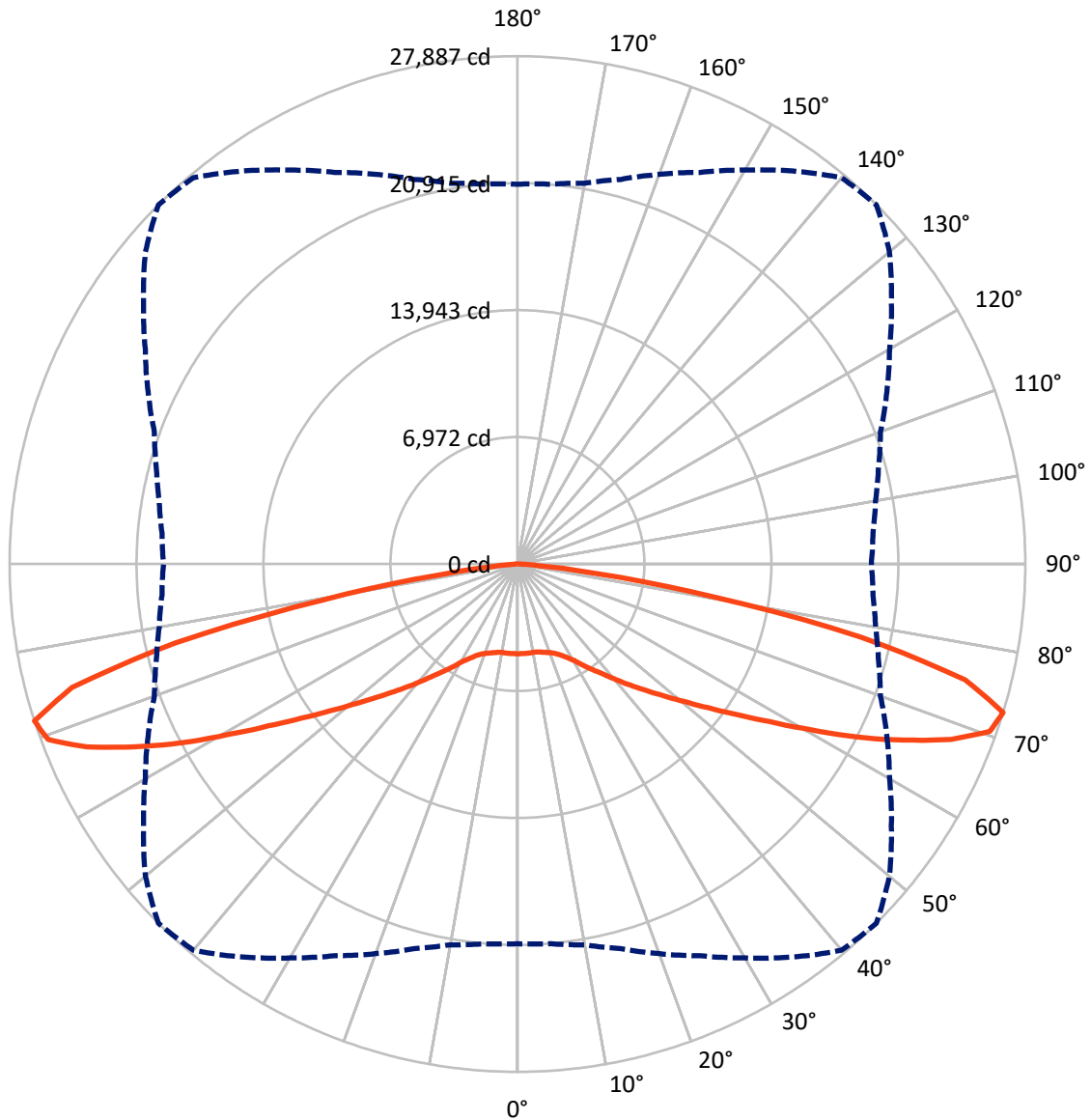
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34819.7	0.0	34819.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34819.7	0.0	34819.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	69639.4	0.0	69639.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	0.7
10°-20°	1430.2	2.1
20°-30°	2613.5	3.8
30°-40°	4506.2	6.5
40°-50°	7703.3	11.1
50°-60°	12486.1	17.9
60°-70°	20714.0	29.7
70°-80°	18244.2	26.2
80°-90°	1471.0	2.1
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°	69639.4	100.0
0°-180°	69639.4	100.0



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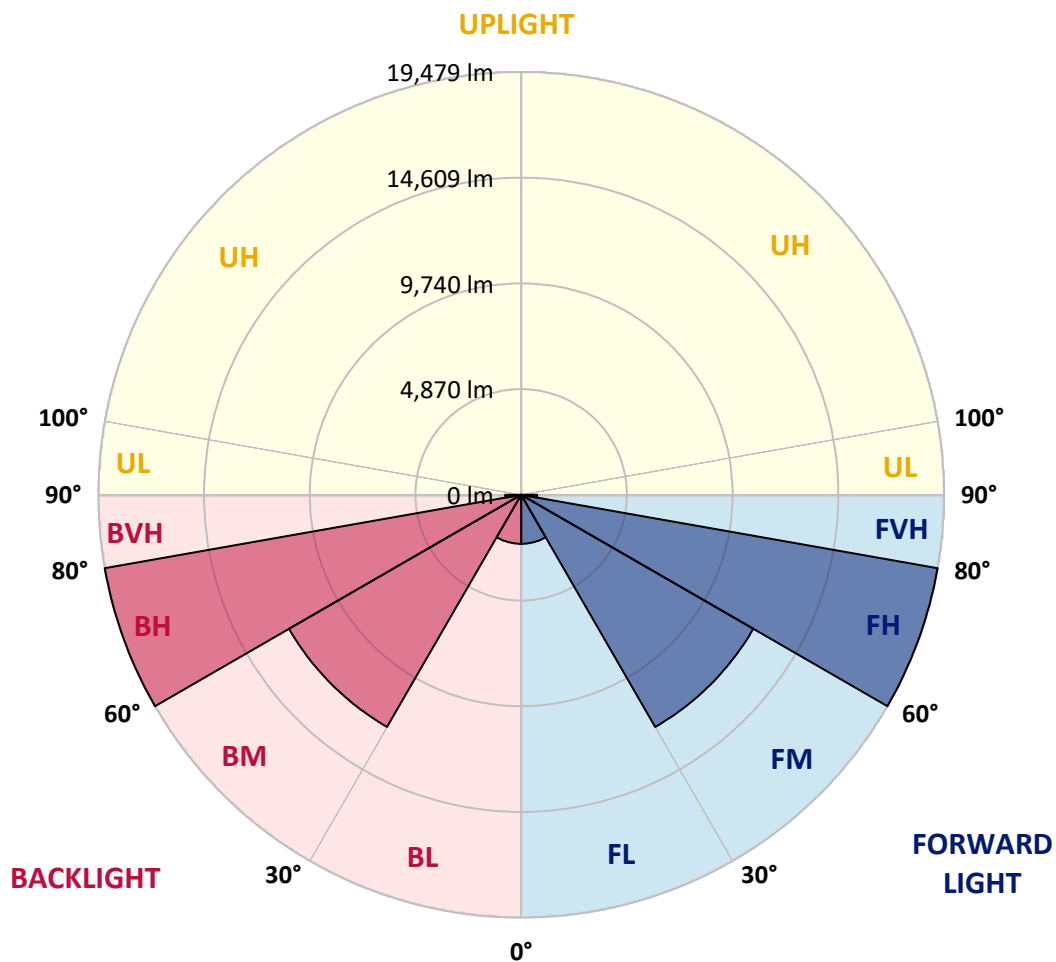
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2257.3	3.2			
FM	(30°-60°)	12347.8	17.7			
FH	(60°-80°)	19479.1	28.0			G5
FVH	(80°-90°)	735.5	1.1			G4/750
BL	(0°-30°)	2257.3	3.2	B3/2500		
BM	(30°-60°)	12347.8	17.7	B5		
BH	(60°-80°)	19479.1	28.0	B5		G5
BVH	(80°-90°)	735.5	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5
2.5°	4931.5	4934.7	4938.0	4934.7	4934.7	4931.5	4928.4	4931.5	4928.4	4921.9	4925.2
5°	4947.5	4953.9	4953.9	4947.5	4950.7	4947.5	4941.2	4944.3	4938.0	4928.4	4928.4
7.5°	4966.7	4969.9	4969.9	4963.5	4966.7	4960.3	4953.9	4950.7	4944.3	4931.5	4921.9
10°	4995.5	4998.6	4995.5	4989.0	4989.0	4979.4	4963.5	4957.1	4944.3	4925.2	4915.6
12.5°	5027.4	5030.6	5027.4	5020.9	5017.8	5001.8	4989.0	4979.4	4969.9	4953.9	4938.0
15°	5072.1	5078.4	5072.1	5059.3	5049.7	5036.9	5030.6	5033.7	5036.9	5024.2	5008.2
17.5°	5155.2	5158.3	5148.7	5120.0	5107.2	5094.4	5094.4	5100.8	5110.5	5104.0	5088.1
20°	5308.4	5298.9	5276.5	5241.4	5225.4	5203.0	5199.9	5203.0	5203.0	5199.9	5187.1
22.5°	5500.1	5493.7	5464.9	5420.2	5397.9	5385.1	5365.9	5349.9	5346.8	5337.1	5324.5
25°	5730.1	5726.9	5691.7	5653.4	5637.4	5621.4	5605.5	5583.2	5563.9	5541.6	5528.8
27.5°	6024.0	6011.2	5960.0	5940.9	5918.5	5908.9	5886.6	5861.0	5845.0	5816.3	5800.3
30°	6346.5	6346.5	6305.0	6298.6	6298.6	6276.2	6250.6	6205.9	6177.2	6148.4	6138.9
32.5°	6669.1	6672.3	6630.8	6643.6	6653.2	6669.1	6675.5	6659.5	6640.4	6637.1	6618.0
35°	7135.4	7122.6	7081.2	7090.7	7087.5	7084.3	7084.3	7119.4	7125.9	7132.2	7093.9
37.5°	7713.6	7713.6	7672.0	7672.0	7652.9	7633.7	7608.1	7630.5	7665.6	7675.2	7649.6
40°	8374.7	8397.1	8345.9	8342.8	8349.1	8288.5	8259.7	8294.8	8317.2	8355.6	8326.8
42.5°	9154.1	9138.0	9087.0	9080.5	9045.4	9026.3	9000.7	9029.5	9064.6	9090.1	9099.8
45°	9901.4	9888.7	9831.2	9831.2	9796.0	9780.0	9792.8	9840.8	9856.7	9891.8	9927.0
47.5°	10639.2	10623.2	10585.0	10600.9	10604.1	10632.9	10674.4	10719.1	10763.8	10811.8	10827.7
50°	11393.0	11396.2	11354.8	11393.0	11441.0	11520.8	11632.6	11706.0	11798.7	11859.4	11878.5
52.5°	12079.7	12092.5	12137.2	12226.7	12322.5	12479.0	12670.7	12849.5	13002.8	13105.0	13098.7
55°	12903.8	12922.9	13031.6	13184.9	13341.4	13577.7	13862.0	14178.2	14433.7	14580.6	14488.1
57.5°	13957.9	13999.4	14120.7	14328.4	14561.5	14868.1	15257.8	15733.7	16129.8	16327.8	16177.7
60°	15404.7	15430.3	15577.2	15807.1	16088.3	16468.3	16989.0	17627.8	18186.7	18448.6	18276.1
62.5°	17311.5	17359.5	17477.6	17710.8	17998.2	18429.5	19065.0	19863.6	20559.9	20923.9	20534.3
65°	19588.9	19742.1	19841.2	20077.6	20345.9	20802.6	21466.9	22322.9	23070.3	23309.9	22859.6
67.5°	21843.9	21978.0	22150.5	22422.0	22693.4	23207.7	23824.1	24654.5	25475.5	25692.6	24993.1
70°	22830.8	22907.4	23175.8	23546.3	24066.9	24673.8	25386.0	26318.7	27334.4	27513.2	26625.3
72.5°	20853.7	20930.4	21230.6	21859.8	22766.9	23731.5	24974.0	26344.2	27685.7	27886.9	26663.6
75°	15772.1	15647.5	16091.4	16925.0	18148.4	19493.0	21230.6	23194.9	25133.7	25386.0	23926.3
77.5°	8151.1	8135.1	8470.5	9505.4	10965.0	12494.9	14408.2	16628.1	18525.2	19291.8	18103.7
80°	2296.5	2322.0	2481.8	2996.0	3848.8	4953.9	6448.7	8528.0	10080.3	10872.4	10208.0
82.5°	900.7	971.0	1031.6	1127.5	1239.3	1402.2	1871.7	2785.2	3737.0	4465.2	3657.2
85°	322.6	344.9	488.7	578.1	587.7	619.6	705.8	824.1	993.4	1185.0	974.2
87.5°	121.3	134.1	156.5	258.7	255.5	233.1	284.3	297.1	223.6	204.4	252.4
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°	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5
2.5°	4918.8	4921.9	4921.9	4925.2	4928.4	4928.4	4934.7	4934.7
5°	4921.9	4921.9	4915.6	4918.8	4915.6	4915.6	4918.8	4918.8
7.5°	4915.6	4912.4	4906.0	4902.8	4896.5	4896.5	4896.5	4896.5
10°	4906.0	4902.8	4896.5	4893.2	4890.0	4890.0	4890.0	4890.0
12.5°	4931.5	4921.9	4915.6	4912.4	4912.4	4912.4	4912.4	4912.4
15°	4998.6	4976.2	4960.3	4960.3	4963.5	4969.9	4969.9	4976.2
17.5°	5081.7	5056.1	5040.2	5027.4	5033.7	5043.4	5049.7	5056.1
20°	5180.7	5167.9	5145.5	5132.8	5132.8	5145.5	5152.0	5155.2
22.5°	5318.0	5308.4	5298.9	5282.9	5282.9	5289.3	5302.1	5302.1
25°	5522.4	5516.1	5509.7	5496.9	5493.7	5493.7	5500.1	5506.4
27.5°	5777.9	5781.2	5774.8	5771.6	5762.0	5758.8	5768.4	5765.1
30°	6119.7	6135.7	6151.6	6138.9	6122.9	6113.4	6103.7	6091.0
32.5°	6582.9	6563.7	6550.9	6528.6	6499.8	6474.3	6455.1	6432.7
35°	7020.4	6988.5	6975.7	6994.8	6991.7	6975.7	6953.4	6934.2
37.5°	7557.0	7550.6	7557.0	7592.1	7585.8	7601.8	7557.0	7553.9
40°	8234.1	8240.6	8285.3	8326.8	8349.1	8371.5	8345.9	8320.4
42.5°	9019.9	9016.7	9032.7	9090.1	9128.5	9154.1	9099.8	9093.3
45°	9850.3	9828.0	9840.8	9888.7	9927.0	9955.8	9895.0	9895.0
47.5°	10763.8	10725.5	10684.0	10738.2	10760.6	10779.8	10731.9	10715.9
50°	11782.8	11702.9	11613.5	11635.8	11635.8	11629.4	11568.8	11565.5
52.5°	12951.7	12804.8	12641.9	12581.2	12546.1	12507.7	12402.4	12351.2
55°	14296.4	14076.0	13820.5	13664.0	13580.9	13475.5	13299.9	13251.9
57.5°	15867.8	15522.9	15082.1	14890.5	14705.2	14532.8	14337.9	14283.7
60°	17730.0	17222.1	16637.6	16283.0	16081.8	15915.8	15714.6	15705.0
62.5°	19806.1	19004.4	18343.2	18023.8	17876.9	17730.0	17538.3	17563.9
65°	21917.3	21080.5	20460.9	20202.2	20064.8	19943.4	19751.7	19780.5
67.5°	23999.8	23230.1	22549.7	22284.6	22131.3	21978.0	21805.5	21834.3
70°	25494.6	24539.6	23773.1	23185.3	22818.0	22402.8	22134.5	22067.4
72.5°	25066.6	23594.2	22377.3	21211.4	20527.9	19972.2	19595.2	19432.4
75°	21693.7	19681.5	18116.5	16685.6	15880.6	15225.8	14749.9	14452.9
77.5°	16110.6	13849.2	11999.9	10351.8	9048.6	8173.5	7557.0	7157.8
80°	8818.7	6707.4	4902.8	3446.3	2532.8	2104.8	1858.9	1740.8
82.5°	2746.8	1772.7	1306.3	1127.5	1047.6	1002.9	929.5	811.3
85°	875.1	766.6	712.3	680.4	648.3	565.4	389.6	354.6
87.5°	338.6	348.1	344.9	325.8	332.2	239.6	191.6	169.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)