

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: P191688

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191688
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50139 lumens
Efficiency: N/A
Efficacy: 119.7 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): 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

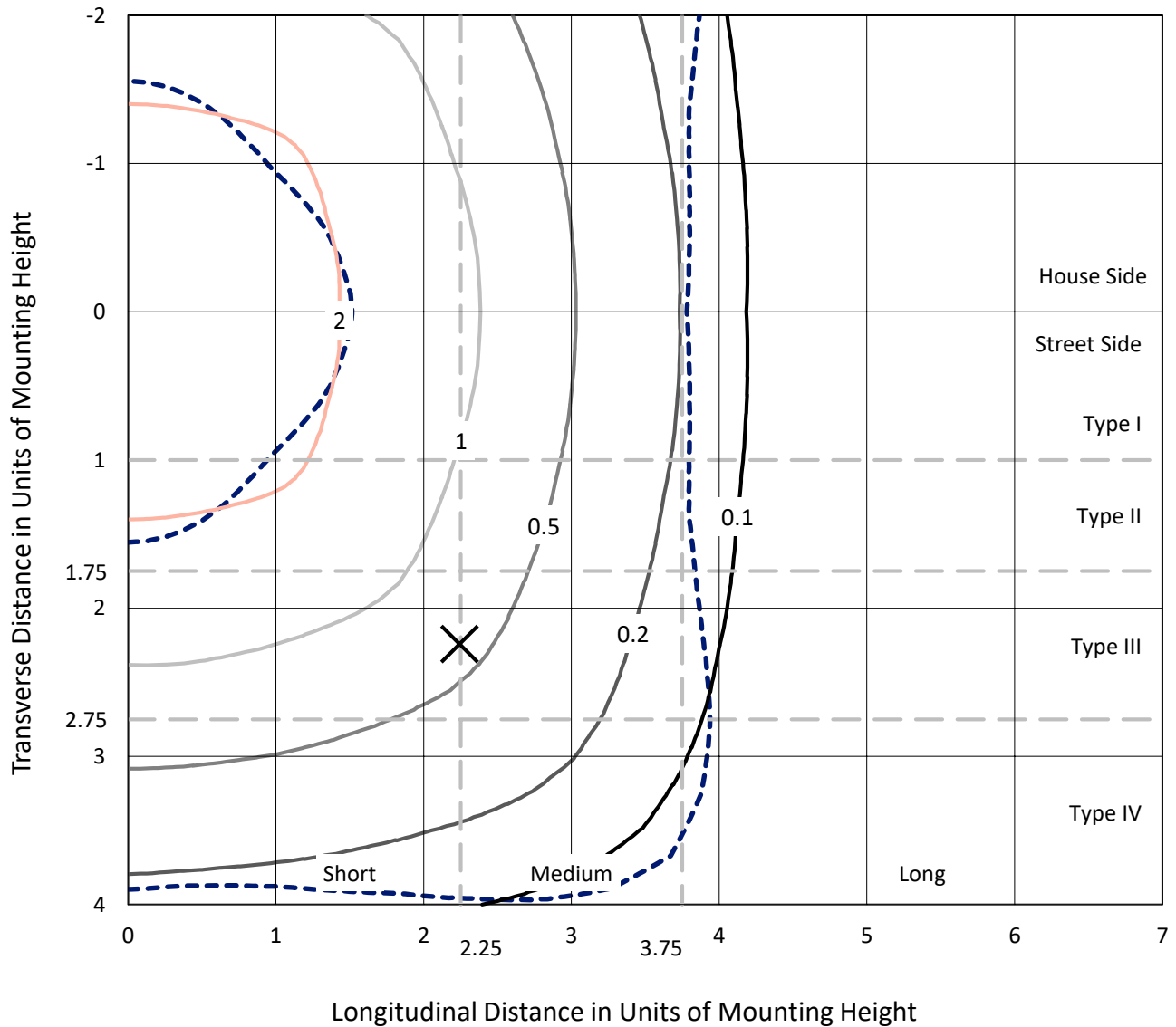


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

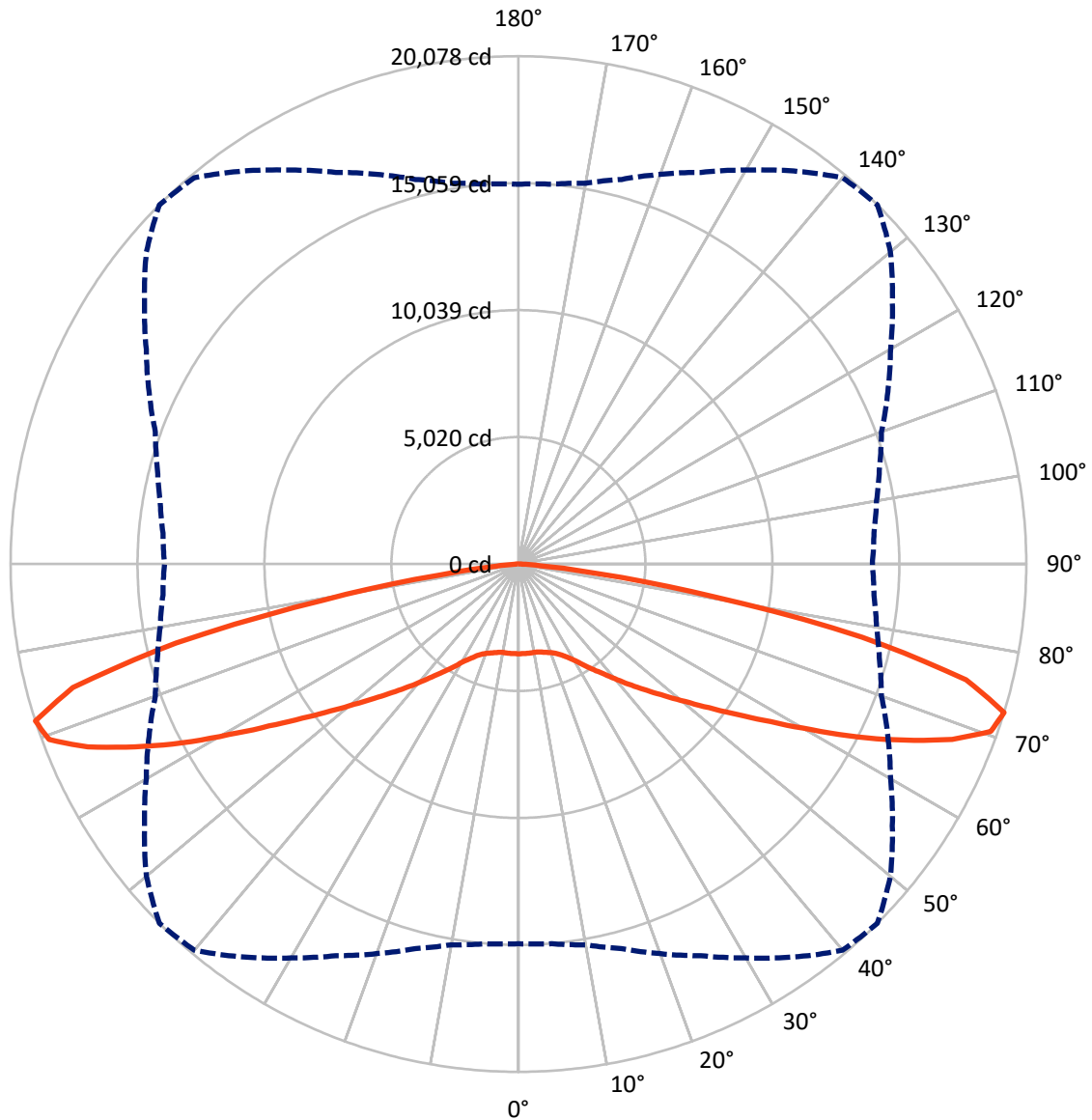


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Semi-Cutoff

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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	25069.5	0.0	25069.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25069.5	0.0	25069.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50139.0	0.0	50139.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	0.7
10°-20°	1029.7	2.1
20°-30°	1881.7	3.8
30°-40°	3244.4	6.5
40°-50°	5546.2	11.1
50°-60°	8989.7	17.9
60°-70°	14913.7	29.7
70°-80°	13135.4	26.2
80°-90°	1059.1	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°	50139.0	100.0
0°-180°	50139.0	100.0



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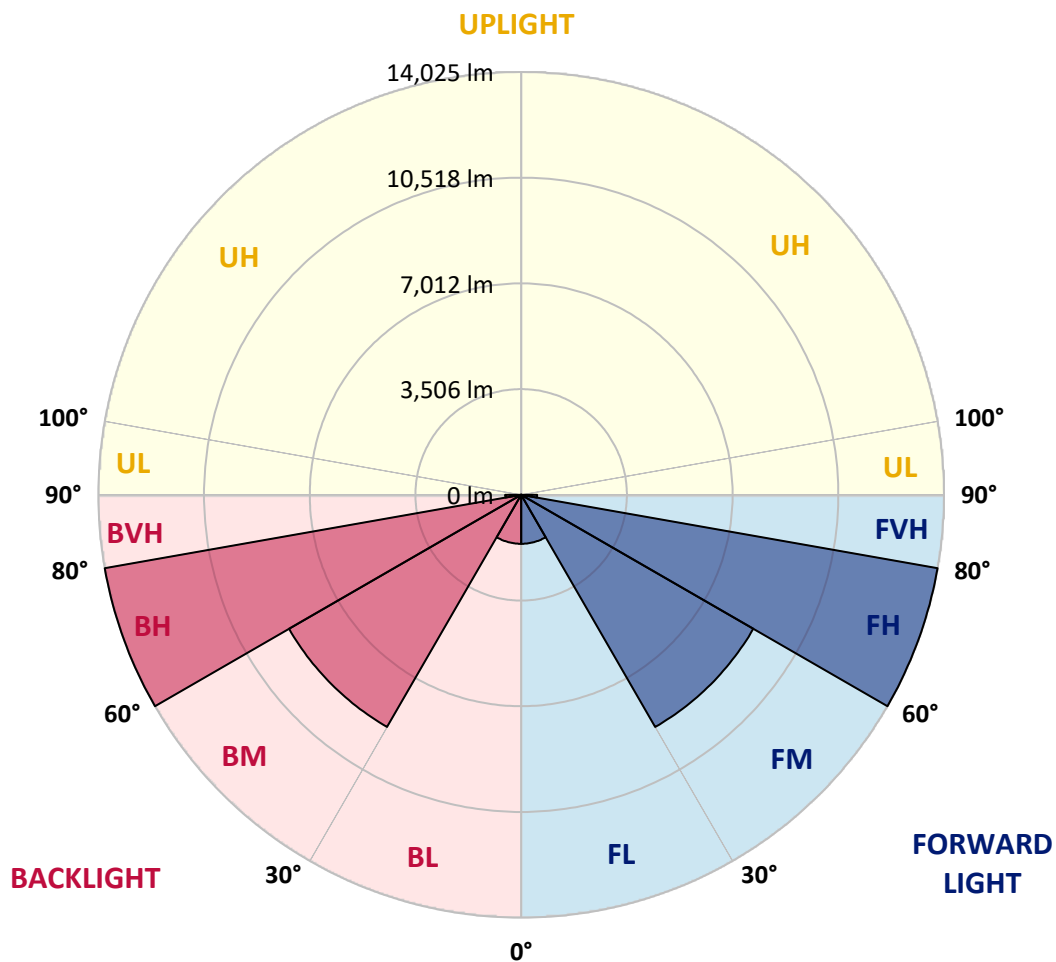
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.2	3.2			
FM	(30°-60°)	8890.2	17.7			
FH	(60°-80°)	14024.5	28.0			G5
FVH	(80°-90°)	529.5	1.1			G4/750
BL	(0°-30°)	1625.2	3.2	B3/2500		
BM	(30°-60°)	8890.2	17.7	B5		
BH	(60°-80°)	14024.5	28.0	B5		G5
BVH	(80°-90°)	529.5	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°	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6
2.5°	3550.6	3552.9	3555.2	3552.9	3552.9	3550.6	3548.3	3550.6	3548.3	3543.7	3546.0
5°	3562.1	3566.7	3566.7	3562.1	3564.4	3562.1	3557.5	3559.8	3555.2	3548.3	3548.3
7.5°	3575.9	3578.2	3578.2	3573.6	3575.9	3571.3	3566.7	3564.4	3559.8	3550.6	3543.7
10°	3596.6	3598.9	3596.6	3592.0	3592.0	3585.1	3573.6	3569.0	3559.8	3546.0	3539.1
12.5°	3619.6	3621.9	3619.6	3615.0	3612.7	3601.2	3592.0	3585.1	3578.2	3566.7	3555.2
15°	3651.8	3656.4	3651.8	3642.6	3635.7	3626.5	3621.9	3624.2	3626.5	3617.3	3605.8
17.5°	3711.6	3713.9	3707.0	3686.3	3677.1	3667.9	3667.9	3672.5	3679.4	3674.8	3663.3
20°	3822.0	3815.1	3799.0	3773.7	3762.2	3746.1	3743.8	3746.1	3746.1	3743.8	3734.6
22.5°	3960.0	3955.4	3934.7	3902.5	3886.4	3877.2	3863.4	3851.9	3849.6	3842.7	3833.5
25°	4125.5	4123.2	4097.9	4070.3	4058.8	4047.3	4035.8	4019.7	4005.9	3989.8	3980.6
27.5°	4337.1	4327.9	4291.1	4277.3	4261.2	4254.3	4238.2	4219.8	4208.3	4187.6	4176.1
30°	4569.4	4569.4	4539.5	4534.9	4534.9	4518.8	4500.4	4468.2	4447.5	4426.8	4419.9
32.5°	4801.6	4803.9	4774.0	4783.2	4790.1	4801.6	4806.2	4794.7	4780.9	4778.6	4764.8
35°	5137.4	5128.2	5098.3	5105.2	5102.9	5100.6	5100.6	5125.9	5130.5	5135.1	5107.5
37.5°	5553.6	5553.6	5523.7	5523.7	5509.9	5496.1	5477.7	5493.8	5519.1	5526.0	5507.6
40°	6029.6	6045.7	6008.9	6006.6	6011.2	5967.5	5946.8	5972.1	5988.2	6015.8	5995.1
42.5°	6590.7	6579.2	6542.4	6537.8	6512.5	6498.7	6480.3	6501.0	6526.3	6544.7	6551.6
45°	7128.8	7119.6	7078.2	7078.2	7052.9	7041.4	7050.6	7085.1	7096.6	7121.9	7147.2
47.5°	7660.0	7648.6	7621.0	7632.5	7634.8	7655.4	7685.3	7717.5	7749.7	7784.2	7795.7
50°	8202.8	8205.1	8175.2	8202.8	8237.3	8294.7	8375.2	8428.1	8494.8	8538.5	8552.3
52.5°	8697.2	8706.4	8738.6	8803.0	8872.0	8984.6	9122.6	9251.4	9361.8	9435.4	9430.8
55°	9290.5	9304.3	9382.5	9492.8	9605.5	9775.7	9980.4	10208.0	10392.0	10497.8	10431.1
57.5°	10049.4	10079.3	10166.6	10316.1	10484.0	10704.8	10985.3	11327.9	11613.1	11755.7	11647.6
60°	11091.1	11109.5	11215.3	11380.8	11583.2	11856.9	12231.7	12691.6	13094.1	13282.6	13158.5
62.5°	12464.0	12498.5	12583.5	12751.4	12958.4	13268.8	13726.5	14301.4	14802.7	15064.8	14784.3
65°	14103.6	14214.0	14285.3	14455.4	14648.6	14977.5	15455.8	16072.1	16610.2	16782.7	16458.4
67.5°	15727.1	15823.7	15947.9	16143.4	16338.8	16709.1	17152.9	17750.8	18341.8	18498.2	17994.6
70°	16437.7	16492.9	16686.1	16952.8	17327.7	17764.6	18277.4	18948.9	19680.2	19809.0	19169.7
72.5°	15014.2	15069.4	15285.6	15738.6	16391.7	17086.2	17980.8	18967.3	19933.1	20078.0	19197.3
75°	11355.5	11265.9	11585.5	12185.7	13066.5	14034.6	15285.6	16699.9	18095.7	18277.4	17226.5
77.5°	5868.6	5857.1	6098.6	6843.7	7894.6	8996.1	10373.6	11971.8	13337.8	13889.7	13034.3
80°	1653.4	1671.8	1786.8	2157.0	2771.0	3566.7	4642.9	6140.0	7257.6	7827.9	7349.6
82.5°	648.5	699.1	742.8	811.8	892.3	1009.5	1347.6	2005.3	2690.6	3214.9	2633.1
85°	232.3	248.4	351.8	416.2	423.1	446.1	508.2	593.3	715.2	853.2	701.4
87.5°	87.4	96.6	112.7	186.3	184.0	167.9	204.7	213.9	161.0	147.2	181.7
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°	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6	3550.6
2.5°	3541.4	3543.7	3543.7	3546.0	3548.3	3548.3	3552.9	3552.9
5°	3543.7	3543.7	3539.1	3541.4	3539.1	3539.1	3541.4	3541.4
7.5°	3539.1	3536.8	3532.2	3529.9	3525.3	3525.3	3525.3	3525.3
10°	3532.2	3529.9	3525.3	3523.0	3520.7	3520.7	3520.7	3520.7
12.5°	3550.6	3543.7	3539.1	3536.8	3536.8	3536.8	3536.8	3536.8
15°	3598.9	3582.8	3571.3	3571.3	3573.6	3578.2	3578.2	3582.8
17.5°	3658.7	3640.3	3628.8	3619.6	3624.2	3631.1	3635.7	3640.3
20°	3730.0	3720.8	3704.7	3695.5	3695.5	3704.7	3709.3	3711.6
22.5°	3828.9	3822.0	3815.1	3803.6	3803.6	3808.2	3817.4	3817.4
25°	3976.1	3971.5	3966.9	3957.7	3955.4	3955.4	3960.0	3964.6
27.5°	4160.0	4162.3	4157.7	4155.4	4148.5	4146.2	4153.1	4150.8
30°	4406.1	4417.6	4429.1	4419.9	4408.4	4401.5	4394.6	4385.4
32.5°	4739.5	4725.7	4716.5	4700.4	4679.7	4661.3	4647.5	4631.4
35°	5054.6	5031.6	5022.4	5036.2	5033.9	5022.4	5006.3	4992.5
37.5°	5440.9	5436.3	5440.9	5466.2	5461.6	5473.1	5440.9	5438.6
40°	5928.4	5933.0	5965.2	5995.1	6011.2	6027.3	6008.9	5990.5
42.5°	6494.1	6491.8	6503.3	6544.7	6572.3	6590.7	6551.6	6547.0
45°	7092.0	7075.9	7085.1	7119.6	7147.2	7167.9	7124.2	7124.2
47.5°	7749.7	7722.1	7692.2	7731.3	7747.4	7761.2	7726.7	7715.2
50°	8483.3	8425.8	8361.4	8377.5	8377.5	8372.9	8329.2	8326.9
52.5°	9325.0	9219.2	9101.9	9058.2	9032.9	9005.3	8929.4	8892.6
55°	10293.1	10134.4	9950.5	9837.8	9778.0	9702.1	9575.6	9541.1
57.5°	11424.5	11176.2	10858.8	10720.8	10587.5	10463.3	10323.0	10283.9
60°	12765.2	12399.6	11978.7	11723.5	11578.6	11459.0	11314.2	11307.3
62.5°	14260.0	13682.8	13206.7	12976.8	12871.0	12765.2	12627.2	12645.6
65°	15780.0	15177.5	14731.4	14545.1	14446.2	14358.9	14220.9	14241.6
67.5°	17279.4	16725.2	16235.3	16044.5	15934.1	15823.7	15699.5	15720.2
70°	18355.6	17668.0	17116.1	16693.0	16428.5	16129.6	15936.4	15888.1
72.5°	18047.5	16987.3	16111.2	15271.8	14779.7	14379.6	14108.2	13990.9
75°	15619.0	14170.3	13043.5	12013.2	11433.7	10962.3	10619.7	10405.8
77.5°	11599.3	9971.2	8639.7	7453.1	6514.8	5884.7	5440.9	5153.5
80°	6349.3	4829.2	3529.9	2481.3	1823.6	1515.5	1338.4	1253.3
82.5°	1977.7	1276.3	940.5	811.8	754.3	722.1	669.2	584.1
85°	630.1	551.9	512.8	489.8	466.8	407.0	280.6	255.3
87.5°	243.8	250.7	248.4	234.6	239.2	172.5	138.0	121.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)