

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: P193438

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193438
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50639 lumens
Efficiency: N/A
Efficacy: 90.8 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): 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

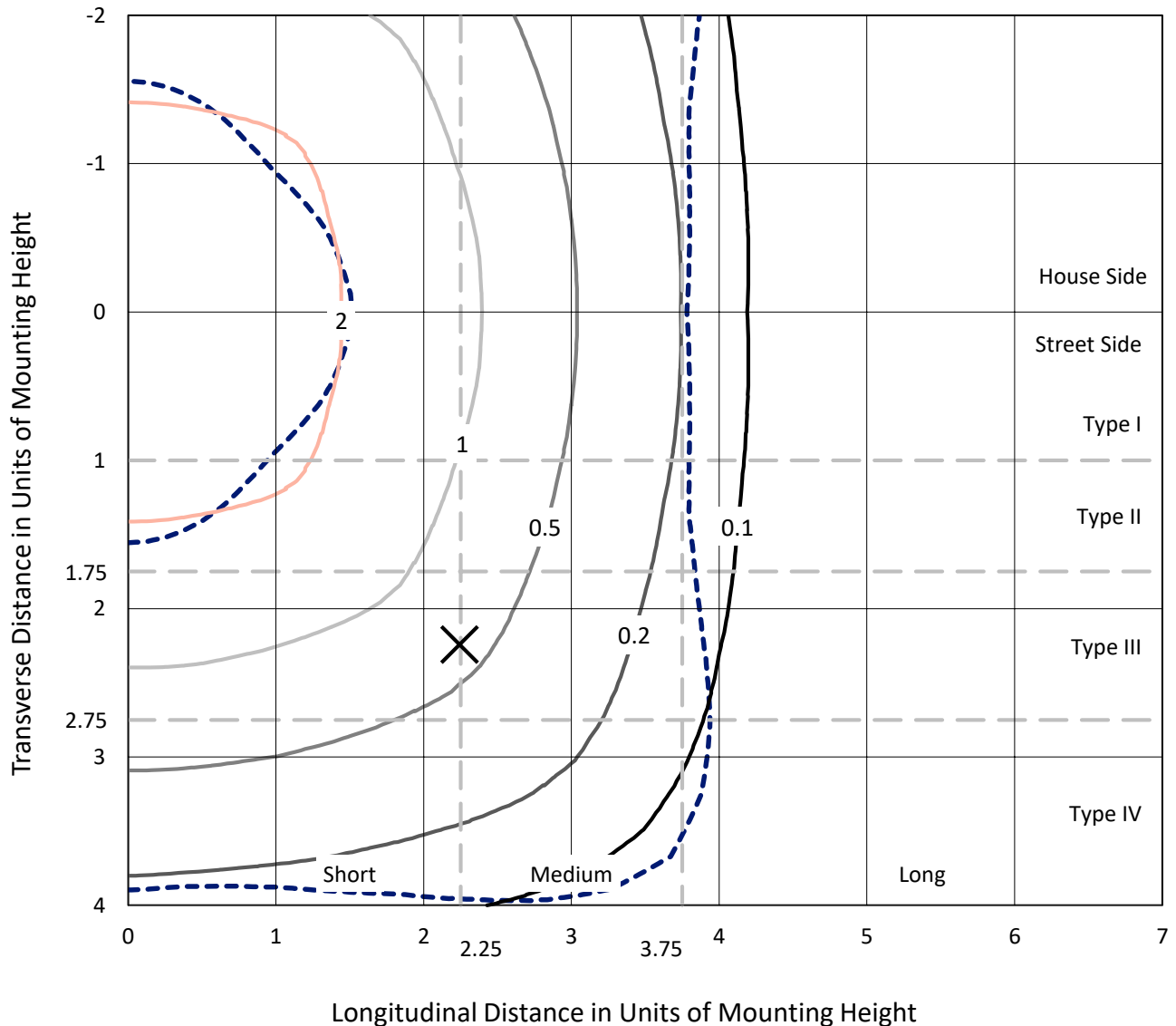


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Iso-Footcandle Lines of Horizontal Illumination

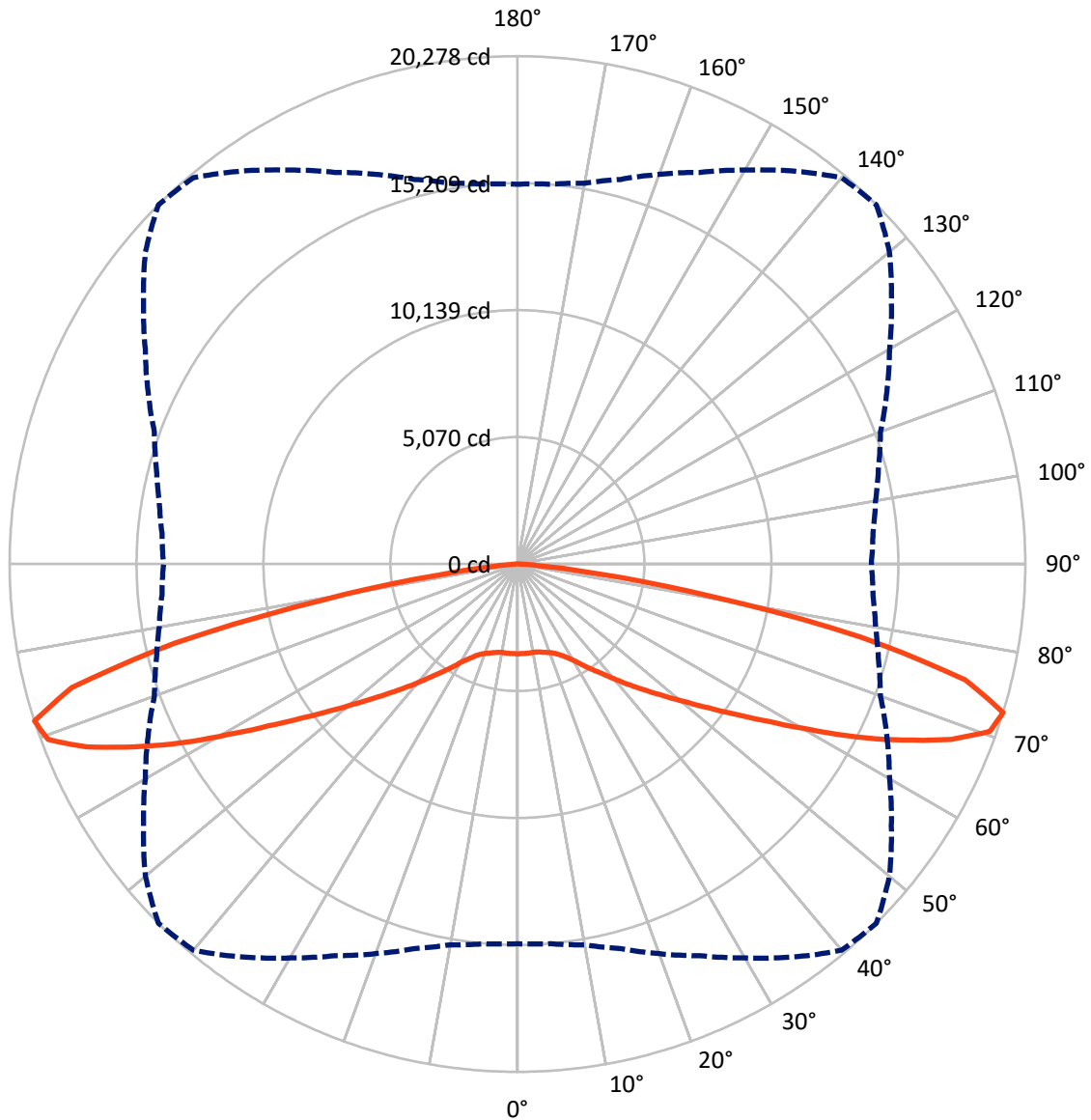
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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	25319.5	0.0	25319.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25319.5	0.0	25319.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50639.0	0.0	50639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	0.7
10°-20°	1040.0	2.1
20°-30°	1900.5	3.8
30°-40°	3276.7	6.5
40°-50°	5601.5	11.1
50°-60°	9079.4	17.9
60°-70°	15062.4	29.7
70°-80°	13266.4	26.2
80°-90°	1069.6	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°	50639.0	100.0
0°-180°	50639.0	100.0



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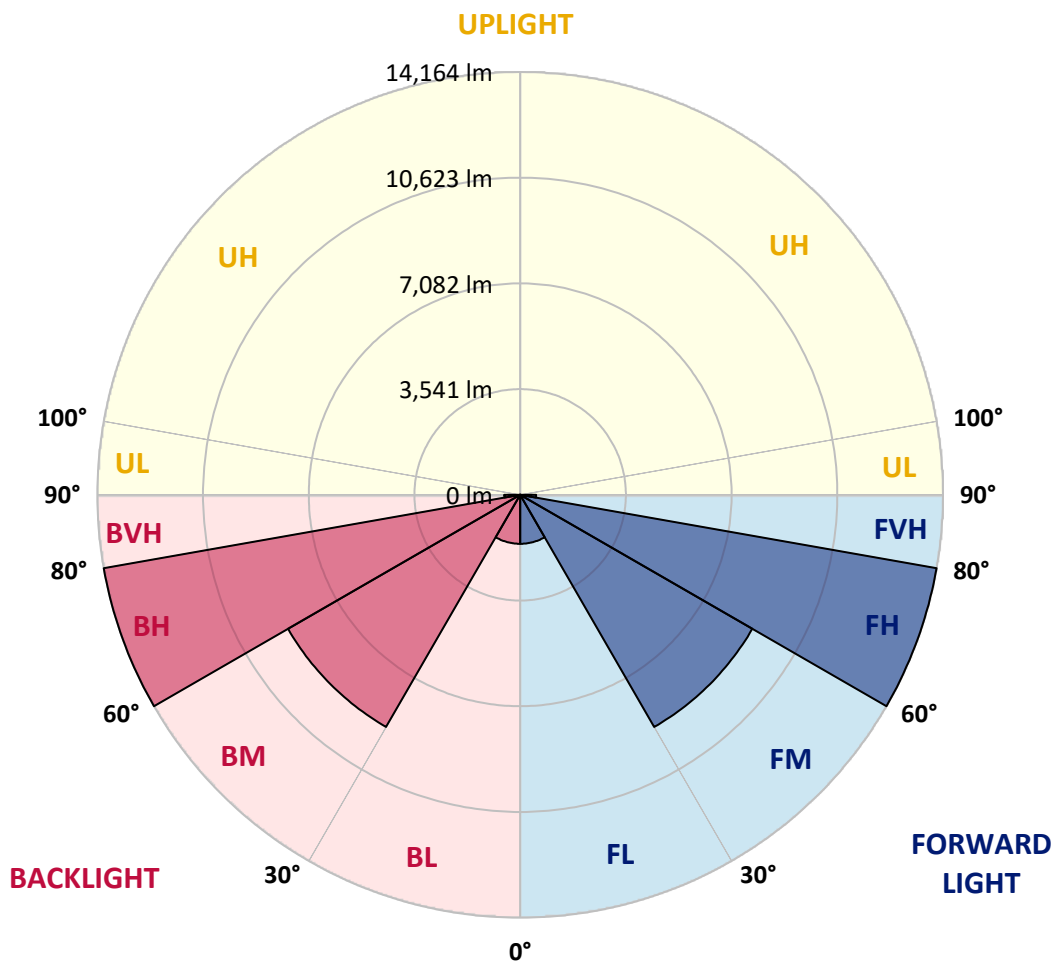
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.4	3.2			
FM	(30°-60°)	8978.8	17.7			
FH	(60°-80°)	14164.4	28.0			G5
FVH	(80°-90°)	534.8	1.1			G4/750
BL	(0°-30°)	1641.4	3.2	B3/2500		
BM	(30°-60°)	8978.8	17.7	B5		
BH	(60°-80°)	14164.4	28.0	B5		G5
BVH	(80°-90°)	534.8	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°	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0
2.5°	3586.0	3588.4	3590.7	3588.4	3588.4	3586.0	3583.7	3586.0	3583.7	3579.1	3581.4
5°	3597.6	3602.3	3602.3	3597.6	3600.0	3597.6	3593.0	3595.3	3590.7	3583.7	3583.7
7.5°	3611.6	3613.9	3613.9	3609.3	3611.6	3606.9	3602.3	3600.0	3595.3	3586.0	3579.1
10°	3632.5	3634.8	3632.5	3627.8	3627.8	3620.9	3609.3	3604.6	3595.3	3581.4	3574.4
12.5°	3655.7	3658.0	3655.7	3651.1	3648.7	3637.1	3627.8	3620.9	3613.9	3602.3	3590.7
15°	3688.2	3692.9	3688.2	3678.9	3672.0	3662.7	3658.0	3660.3	3662.7	3653.4	3641.8
17.5°	3748.6	3750.9	3744.0	3723.1	3713.8	3704.5	3704.5	3709.1	3716.1	3711.4	3699.8
20°	3860.1	3853.1	3836.9	3811.3	3799.7	3783.4	3781.1	3783.4	3783.4	3781.1	3771.8
22.5°	3999.4	3994.8	3973.9	3941.4	3925.1	3915.8	3901.9	3890.3	3888.0	3881.0	3871.7
25°	4166.7	4164.3	4138.8	4110.9	4099.3	4087.7	4076.1	4059.8	4045.9	4029.6	4020.3
27.5°	4380.3	4371.1	4333.9	4320.0	4303.7	4296.7	4280.5	4261.9	4250.3	4229.4	4217.8
30°	4614.9	4614.9	4584.7	4580.1	4580.1	4563.8	4545.2	4512.7	4491.8	4470.9	4464.0
32.5°	4849.5	4851.8	4821.6	4830.9	4837.9	4849.5	4854.1	4842.5	4828.6	4826.3	4812.3
35°	5188.6	5179.3	5149.1	5156.1	5153.8	5151.4	5151.4	5177.0	5181.6	5186.3	5158.4
37.5°	5609.0	5609.0	5578.8	5578.8	5564.8	5550.9	5532.3	5548.6	5574.1	5581.1	5562.5
40°	6089.7	6106.0	6068.8	6066.5	6071.2	6027.0	6006.1	6031.7	6047.9	6075.8	6054.9
42.5°	6656.4	6644.8	6607.7	6603.0	6577.5	6563.5	6545.0	6565.9	6591.4	6610.0	6617.0
45°	7199.9	7190.6	7148.8	7148.8	7123.3	7111.7	7121.0	7155.8	7167.4	7193.0	7218.5
47.5°	7736.4	7724.8	7697.0	7708.6	7710.9	7731.8	7762.0	7794.5	7827.0	7861.9	7873.5
50°	8284.6	8286.9	8256.7	8284.6	8319.4	8377.5	8458.8	8512.2	8579.5	8623.7	8637.6
52.5°	8783.9	8793.2	8825.7	8890.7	8960.4	9074.2	9213.6	9343.6	9455.1	9529.5	9524.8
55°	9383.1	9397.1	9476.0	9587.5	9701.3	9873.2	10079.9	10309.8	10495.6	10602.5	10535.1
57.5°	10149.6	10179.8	10268.0	10419.0	10588.5	10811.5	11094.9	11440.9	11728.9	11872.9	11763.8
60°	11201.7	11220.3	11327.1	11494.3	11698.7	11975.1	12353.7	12818.2	13224.6	13415.1	13289.7
62.5°	12588.3	12623.1	12709.0	12878.6	13087.6	13401.2	13863.3	14444.0	14950.3	15215.1	14931.7
65°	14244.2	14355.7	14427.7	14599.6	14794.7	15126.8	15609.9	16232.4	16775.8	16950.0	16622.5
67.5°	15884.0	15981.5	16106.9	16304.3	16501.8	16875.7	17324.0	17927.8	18524.7	18682.6	18174.0
70°	16601.6	16657.4	16852.5	17121.9	17500.5	17941.8	18459.7	19137.9	19876.4	20006.5	19360.8
72.5°	15164.0	15219.7	15438.0	15895.6	16555.2	17256.6	18160.1	19156.4	20131.9	20278.2	19388.7
75°	11468.8	11378.2	11701.0	12307.2	13196.8	14174.6	15438.0	16866.4	18276.2	18459.7	17398.3
77.5°	5927.2	5915.6	6159.4	6911.9	7973.3	9085.8	10477.1	12091.2	13470.8	14028.2	13164.3
80°	1669.9	1688.5	1804.6	2178.6	2798.7	3602.3	4689.2	6201.2	7330.0	7906.0	7422.9
82.5°	655.0	706.1	750.2	819.9	901.2	1019.6	1361.0	2025.3	2717.4	3246.9	2659.3
85°	234.6	250.8	355.4	420.4	427.4	450.6	513.3	599.2	722.3	861.7	708.4
87.5°	88.3	97.5	113.8	188.1	185.8	169.5	206.7	216.0	162.6	148.6	183.5
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°	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0	3586.0
2.5°	3576.7	3579.1	3579.1	3581.4	3583.7	3583.7	3588.4	3588.4
5°	3579.1	3579.1	3574.4	3576.7	3574.4	3574.4	3576.7	3576.7
7.5°	3574.4	3572.1	3567.4	3565.1	3560.5	3560.5	3560.5	3560.5
10°	3567.4	3565.1	3560.5	3558.2	3555.8	3555.8	3555.8	3555.8
12.5°	3586.0	3579.1	3574.4	3572.1	3572.1	3572.1	3572.1	3572.1
15°	3634.8	3618.5	3606.9	3606.9	3609.3	3613.9	3613.9	3618.5
17.5°	3695.2	3676.6	3665.0	3655.7	3660.3	3667.3	3672.0	3676.6
20°	3767.2	3757.9	3741.6	3732.3	3732.3	3741.6	3746.3	3748.6
22.5°	3867.1	3860.1	3853.1	3841.5	3841.5	3846.2	3855.4	3855.4
25°	4015.7	4011.1	4006.4	3997.1	3994.8	3994.8	3999.4	4004.1
27.5°	4201.5	4203.8	4199.2	4196.9	4189.9	4187.6	4194.5	4192.2
30°	4450.0	4461.6	4473.2	4464.0	4452.3	4445.4	4438.4	4429.1
32.5°	4786.8	4772.9	4763.6	4747.3	4726.4	4707.8	4693.9	4677.6
35°	5105.0	5081.8	5072.5	5086.4	5084.1	5072.5	5056.2	5042.3
37.5°	5495.2	5490.5	5495.2	5520.7	5516.1	5527.7	5495.2	5492.8
40°	5987.6	5992.2	6024.7	6054.9	6071.2	6087.4	6068.8	6050.3
42.5°	6558.9	6556.6	6568.2	6610.0	6637.9	6656.4	6617.0	6612.3
45°	7162.8	7146.5	7155.8	7190.6	7218.5	7239.4	7195.3	7195.3
47.5°	7827.0	7799.1	7769.0	7808.4	7824.7	7838.6	7803.8	7792.2
50°	8567.9	8509.8	8444.8	8461.1	8461.1	8456.4	8412.3	8410.0
52.5°	9418.0	9311.1	9192.7	9148.6	9123.0	9095.1	9018.5	8981.3
55°	10395.8	10235.5	10049.7	9935.9	9875.5	9798.9	9671.1	9636.3
57.5°	11538.5	11287.6	10967.1	10827.8	10693.1	10567.6	10426.0	10386.5
60°	12892.5	12523.2	12098.2	11840.4	11694.1	11573.3	11427.0	11420.0
62.5°	14402.2	13819.2	13338.4	13106.2	12999.4	12892.5	12753.2	12771.7
65°	15937.4	15328.9	14878.3	14690.2	14590.3	14502.0	14362.7	14383.6
67.5°	17451.7	16892.0	16397.3	16204.5	16093.0	15981.5	15856.1	15877.0
70°	18538.6	17844.2	17286.8	16859.4	16592.3	16290.4	16095.3	16046.5
72.5°	18227.4	17156.7	16271.8	15424.1	14927.1	14522.9	14248.9	14130.4
75°	15774.8	14311.6	13173.5	12133.0	11547.8	11071.6	10725.6	10509.6
77.5°	11715.0	10070.6	8725.8	7527.4	6579.8	5943.4	5495.2	5204.9
80°	6412.6	4877.4	3565.1	2506.0	1841.8	1530.6	1351.7	1265.8
82.5°	1997.4	1289.0	949.9	819.9	761.8	729.3	675.9	589.9
85°	636.4	557.4	517.9	494.7	471.5	411.1	283.4	257.8
87.5°	246.2	253.2	250.8	236.9	241.5	174.2	139.4	123.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)