

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: P191678

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191678
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40888 lumens
Efficiency: N/A
Efficacy: 126.6 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 - G4

Input Watts (W): 323
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

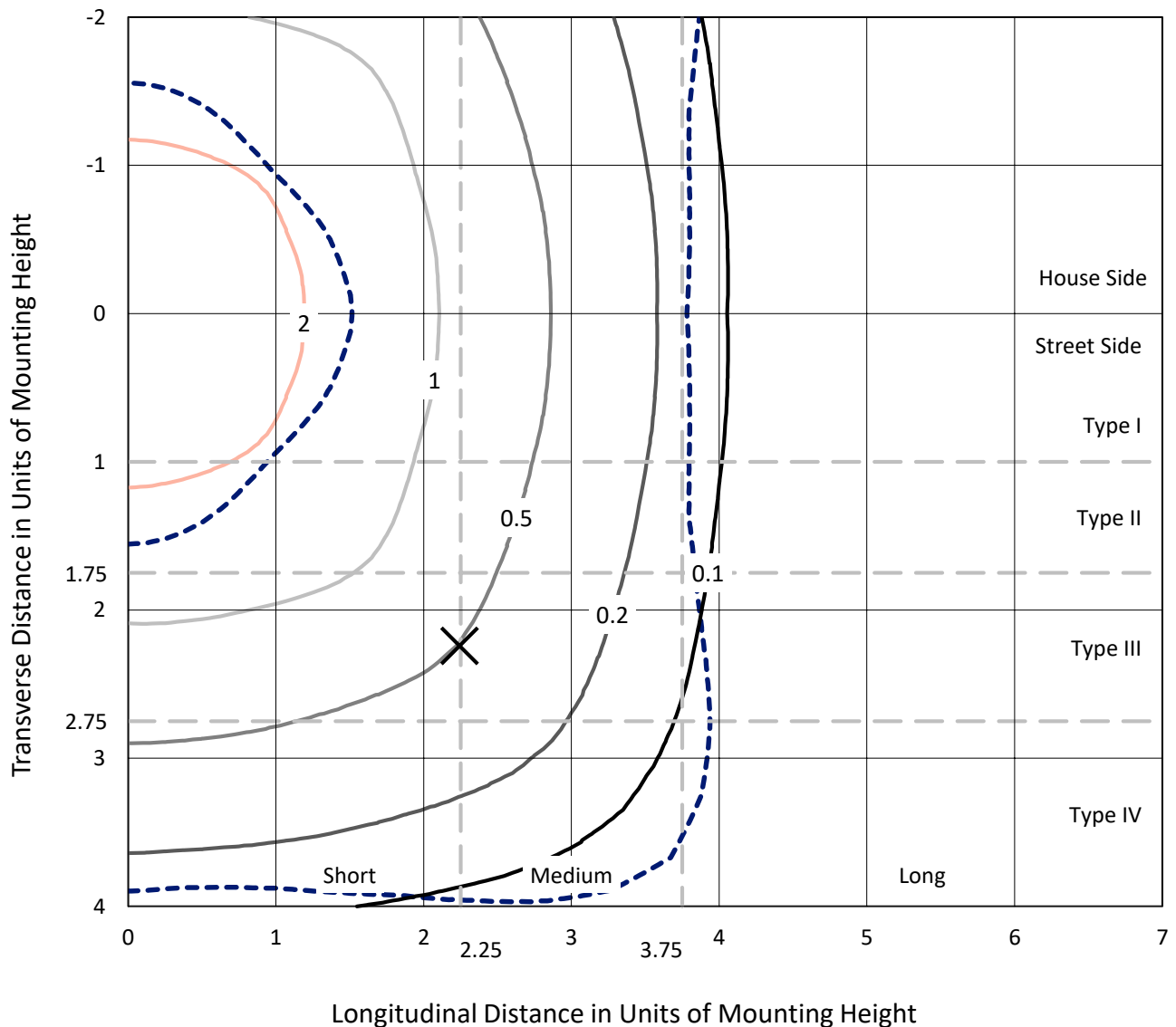


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

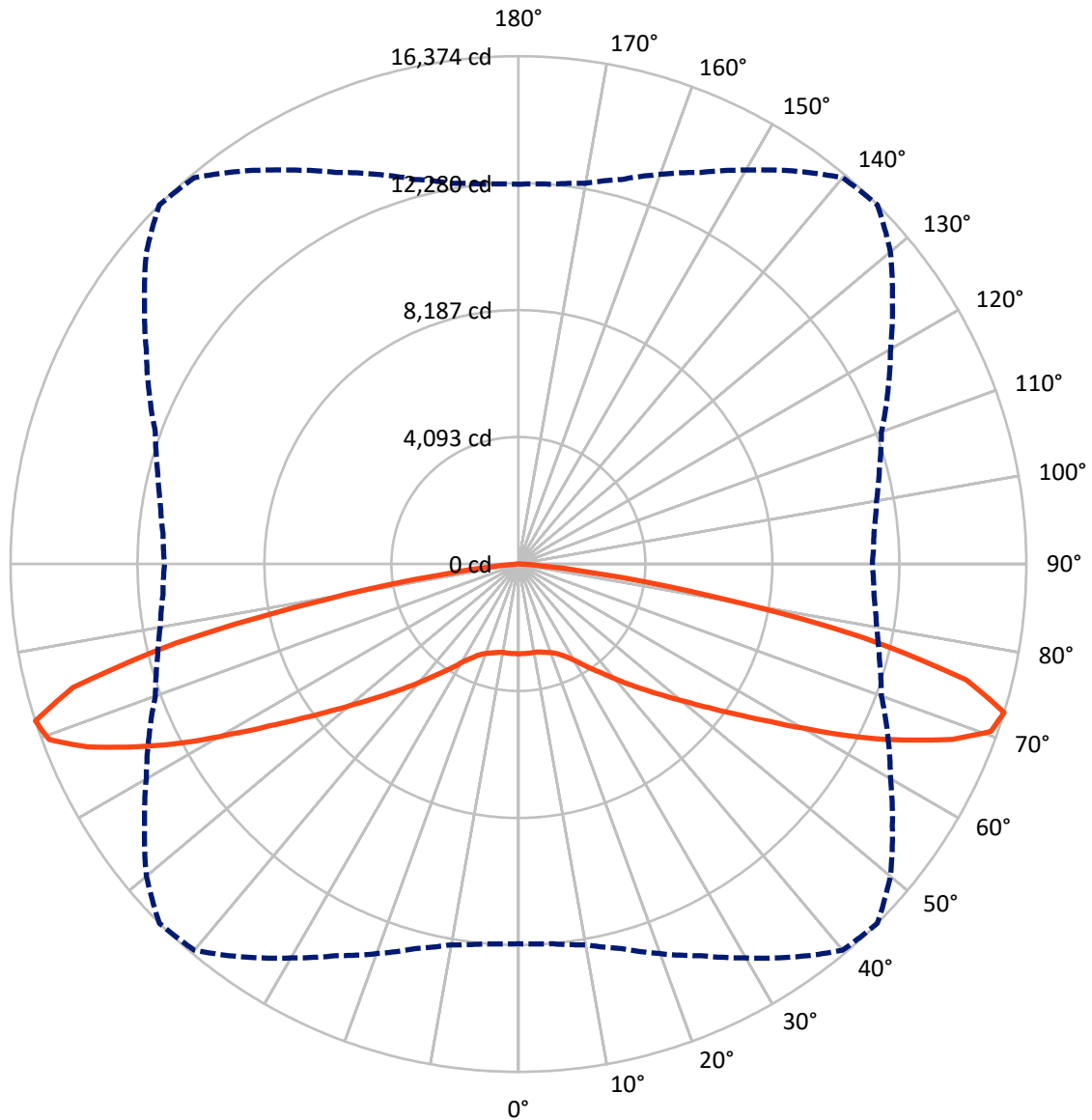


Based on 30 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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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	20444.0	0.0	20444.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20444.0	0.0	20444.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40888.0	0.0	40888.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	0.7
10°-20°	839.7	2.1
20°-30°	1534.5	3.8
30°-40°	2645.8	6.5
40°-50°	4522.9	11.1
50°-60°	7331.1	17.9
60°-70°	12162.0	29.7
70°-80°	10711.8	26.2
80°-90°	863.7	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°	40888.0	100.0
0°-180°	40888.0	100.0



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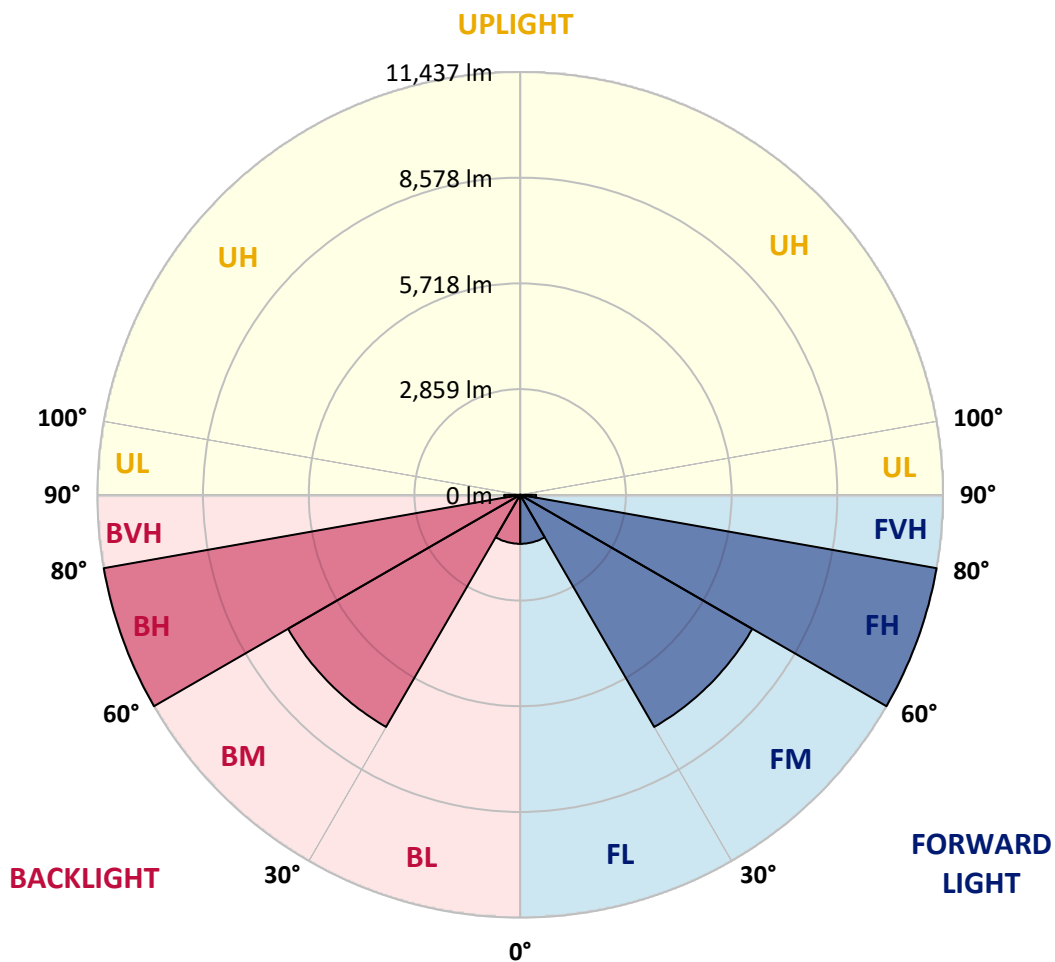
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.4	3.2			
FM	(30°-60°)	7249.9	17.7			
FH	(60°-80°)	11436.9	28.0			G4/12000
FVH	(80°-90°)	431.8	1.1			G3/500
BL	(0°-30°)	1325.4	3.2	B3/2500		
BM	(30°-60°)	7249.9	17.7	B4/8500		
BH	(60°-80°)	11436.9	28.0	B5		G4/12000
BVH	(80°-90°)	431.8	1.1			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5
2.5°	2895.5	2897.4	2899.3	2897.4	2897.4	2895.5	2893.6	2895.5	2893.6	2889.9	2891.8
5°	2904.9	2908.6	2908.6	2904.9	2906.8	2904.9	2901.1	2903.0	2899.3	2893.6	2893.6
7.5°	2916.1	2918.0	2918.0	2914.3	2916.1	2912.4	2908.6	2906.8	2903.0	2895.5	2889.9
10°	2933.0	2934.9	2933.0	2929.3	2929.3	2923.6	2914.3	2910.5	2903.0	2891.8	2886.1
12.5°	2951.8	2953.6	2951.8	2948.0	2946.1	2936.8	2929.3	2923.6	2918.0	2908.6	2899.3
15°	2978.0	2981.8	2978.0	2970.5	2964.9	2957.4	2953.6	2955.5	2957.4	2949.9	2940.5
17.5°	3026.8	3028.7	3023.0	3006.1	2998.6	2991.1	2991.1	2994.9	3000.5	2996.8	2987.4
20°	3116.8	3111.2	3098.0	3077.4	3068.0	3054.9	3053.0	3054.9	3054.9	3053.0	3045.5
22.5°	3229.3	3225.6	3208.7	3182.4	3169.3	3161.8	3150.6	3141.2	3139.3	3133.7	3126.2
25°	3364.3	3362.5	3341.8	3319.3	3310.0	3300.6	3291.2	3278.1	3266.8	3253.7	3246.2
27.5°	3536.9	3529.4	3499.4	3488.1	3475.0	3469.4	3456.2	3441.2	3431.8	3415.0	3405.6
30°	3726.3	3726.3	3701.9	3698.1	3698.1	3685.0	3670.0	3643.8	3626.9	3610.0	3604.4
32.5°	3915.7	3917.6	3893.2	3900.7	3906.3	3915.7	3919.4	3910.1	3898.8	3896.9	3885.7
35°	4189.5	4182.0	4157.6	4163.2	4161.4	4159.5	4159.5	4180.1	4183.9	4187.6	4165.1
37.5°	4528.9	4528.9	4504.5	4504.5	4493.3	4482.0	4467.0	4480.2	4500.8	4506.4	4491.4
40°	4917.1	4930.2	4900.2	4898.4	4902.1	4866.5	4849.6	4870.2	4883.4	4905.9	4889.0
42.5°	5374.7	5365.3	5335.3	5331.6	5310.9	5299.7	5284.7	5301.6	5322.2	5337.2	5342.8
45°	5813.5	5806.0	5772.3	5772.3	5751.6	5742.3	5749.8	5777.9	5787.3	5807.9	5828.5
47.5°	6246.7	6237.3	6214.8	6224.2	6226.1	6243.0	6267.3	6293.6	6319.9	6348.0	6357.4
50°	6689.3	6691.2	6666.8	6689.3	6717.4	6764.3	6829.9	6873.1	6927.5	6963.1	6974.3
52.5°	7092.5	7100.0	7126.2	7178.8	7235.0	7326.9	7439.4	7544.4	7634.5	7694.5	7690.7
55°	7576.3	7587.6	7651.3	7741.4	7833.2	7972.0	8138.9	8324.6	8474.6	8560.9	8506.5
57.5°	8195.2	8219.6	8290.8	8412.7	8549.6	8729.6	8958.4	9237.9	9470.4	9586.7	9498.5
60°	9044.7	9059.7	9146.0	9281.0	9446.0	9669.2	9974.9	10349.9	10678.1	10831.9	10730.6
62.5°	10164.3	10192.4	10261.8	10398.7	10567.5	10820.6	11193.8	11662.7	12071.5	12285.3	12056.5
65°	11501.4	11591.4	11649.5	11788.3	11945.8	12214.0	12604.1	13106.7	13545.5	13686.1	13421.7
67.5°	12825.4	12904.1	13005.4	13164.8	13324.2	13626.1	13988.1	14475.7	14957.6	15085.1	14674.4
70°	13404.8	13449.8	13607.4	13824.9	14130.6	14486.9	14905.1	15452.7	16049.1	16154.1	15632.7
72.5°	12244.0	12289.0	12465.3	12834.7	13367.3	13933.7	14663.2	15467.7	16255.3	16373.5	15655.2
75°	9260.4	9187.2	9447.9	9937.4	10655.6	11445.1	12465.3	13618.6	14757.0	14905.1	14048.1
77.5°	4785.8	4776.5	4973.4	5581.0	6438.0	7336.3	8459.6	9763.0	10876.9	11327.0	10629.4
80°	1348.4	1363.4	1457.1	1759.1	2259.8	2908.6	3786.3	5007.1	5918.5	6383.6	5993.5
82.5°	528.8	570.1	605.7	662.0	727.6	823.3	1098.9	1635.3	2194.1	2621.7	2147.2
85°	189.4	202.5	286.9	339.4	345.1	363.8	414.4	483.8	583.2	695.7	572.0
87.5°	71.3	78.8	91.9	151.9	150.0	136.9	166.9	174.4	131.3	120.0	148.2
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°	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5	2895.5
2.5°	2888.0	2889.9	2889.9	2891.8	2893.6	2893.6	2897.4	2897.4
5°	2889.9	2889.9	2886.1	2888.0	2886.1	2886.1	2888.0	2888.0
7.5°	2886.1	2884.3	2880.5	2878.6	2874.9	2874.9	2874.9	2874.9
10°	2880.5	2878.6	2874.9	2873.0	2871.1	2871.1	2871.1	2871.1
12.5°	2895.5	2889.9	2886.1	2884.3	2884.3	2884.3	2884.3	2884.3
15°	2934.9	2921.8	2912.4	2912.4	2914.3	2918.0	2918.0	2921.8
17.5°	2983.6	2968.6	2959.3	2951.8	2955.5	2961.1	2964.9	2968.6
20°	3041.8	3034.3	3021.2	3013.7	3013.7	3021.2	3024.9	3026.8
22.5°	3122.4	3116.8	3111.2	3101.8	3101.8	3105.5	3113.0	3113.0
25°	3242.4	3238.7	3234.9	3227.4	3225.6	3225.6	3229.3	3233.1
27.5°	3392.5	3394.3	3390.6	3388.7	3383.1	3381.2	3386.8	3385.0
30°	3593.1	3602.5	3611.9	3604.4	3595.0	3589.4	3583.8	3576.2
32.5°	3865.0	3853.8	3846.3	3833.2	3816.3	3801.3	3790.0	3776.9
35°	4122.0	4103.2	4095.7	4107.0	4105.1	4095.7	4082.6	4071.3
37.5°	4437.0	4433.3	4437.0	4457.7	4453.9	4463.3	4437.0	4435.1
40°	4834.6	4838.3	4864.6	4889.0	4902.1	4915.2	4900.2	4885.2
42.5°	5295.9	5294.0	5303.4	5337.2	5359.7	5374.7	5342.8	5339.1
45°	5783.5	5770.4	5777.9	5806.0	5828.5	5845.4	5809.8	5809.8
47.5°	6319.9	6297.3	6273.0	6304.9	6318.0	6329.2	6301.1	6291.7
50°	6918.1	6871.2	6818.7	6831.8	6831.8	6828.1	6792.4	6790.6
52.5°	7604.5	7518.2	7422.5	7386.9	7366.3	7343.8	7281.9	7251.9
55°	8394.0	8264.6	8114.5	8022.7	7973.9	7912.0	7808.9	7780.7
57.5°	9316.6	9114.1	8855.3	8742.8	8634.0	8532.7	8418.3	8386.5
60°	10409.9	10111.8	9768.6	9560.4	9442.3	9344.8	9226.6	9221.0
62.5°	11628.9	11158.2	10770.0	10582.5	10496.2	10409.9	10297.4	10312.4
65°	12868.5	12377.2	12013.3	11861.4	11780.8	11709.5	11597.0	11613.9
67.5°	14091.2	13639.3	13239.8	13084.2	12994.1	12904.1	12802.9	12819.7
70°	14968.9	14408.1	13958.1	13613.0	13397.3	13153.5	12996.0	12956.6
72.5°	14717.6	13853.0	13138.5	12454.0	12052.7	11726.4	11505.1	11409.5
75°	12737.2	11555.8	10636.9	9796.7	9324.1	8939.7	8660.3	8485.9
77.5°	9459.2	8131.4	7045.6	6077.9	5312.8	4799.0	4437.0	4202.6
80°	5177.8	3938.2	2878.6	2023.5	1487.1	1235.8	1091.4	1022.1
82.5°	1612.8	1040.8	767.0	662.0	615.1	588.9	545.7	476.3
85°	513.8	450.1	418.2	399.4	380.7	331.9	228.8	208.2
87.5°	198.8	204.4	202.5	191.3	195.0	140.6	112.5	99.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)