

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: P193428

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193428
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 40913 lumens
Efficiency: N/A
Efficacy: 97.6 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): 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

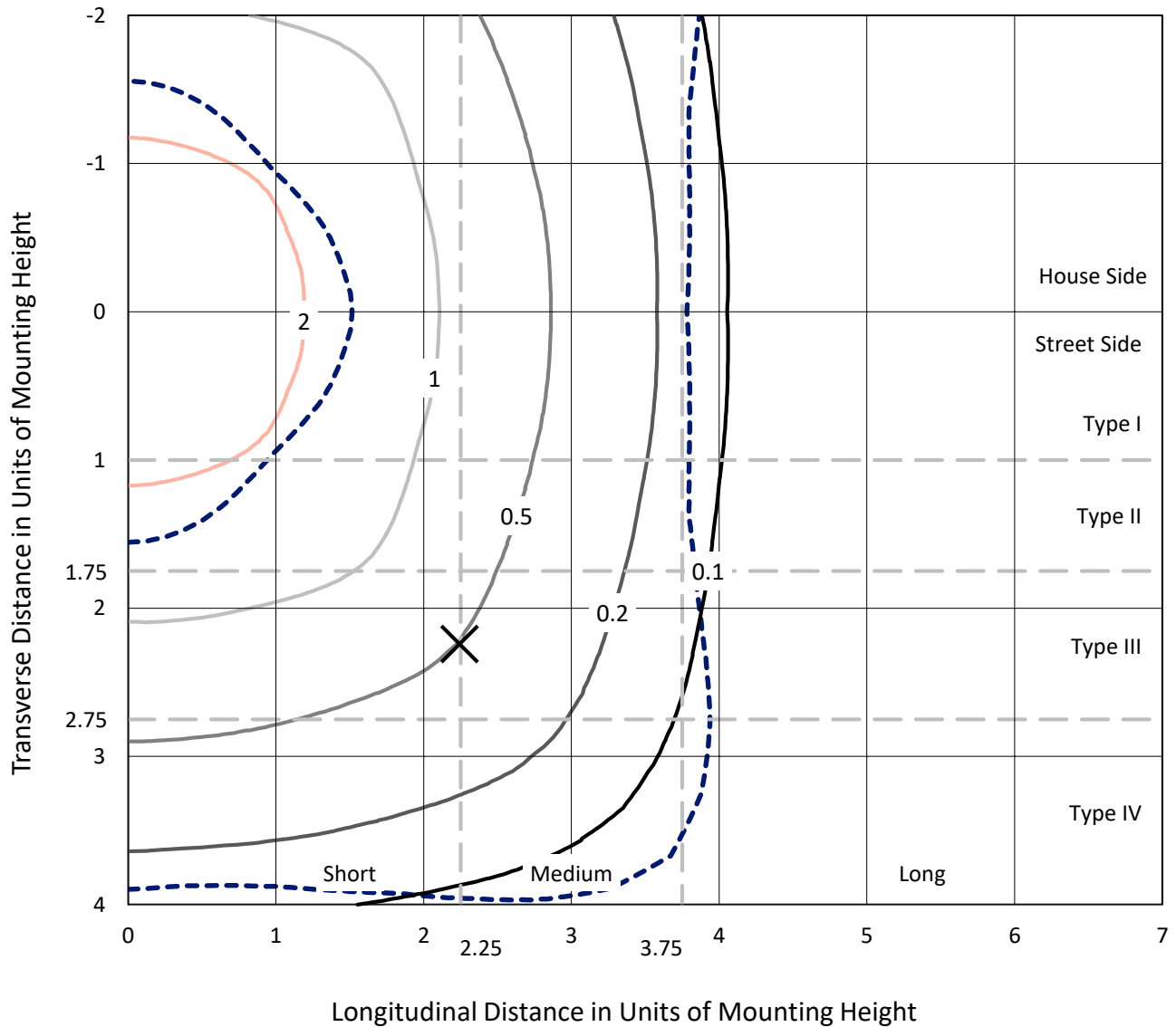


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

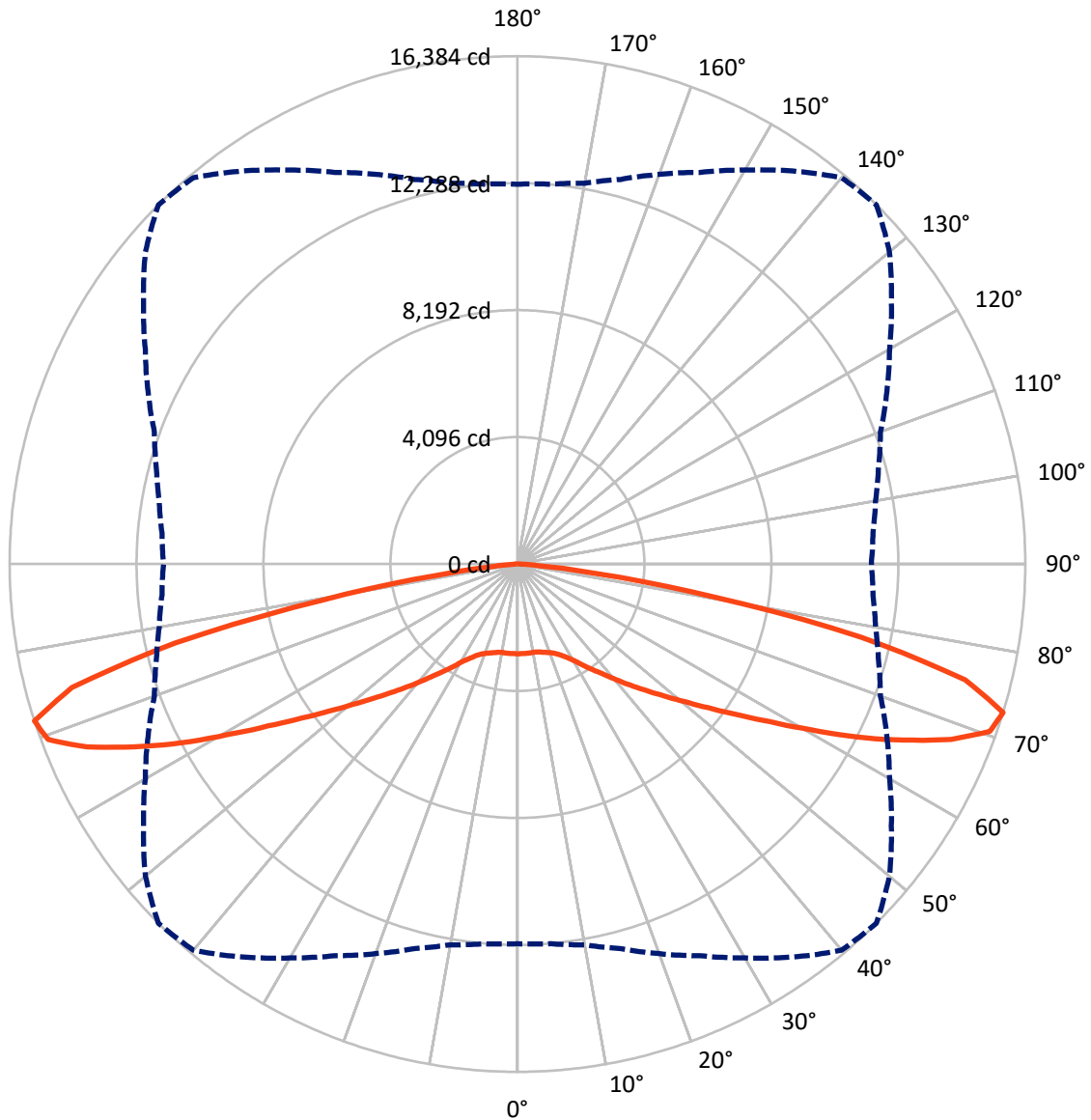


Based on 30 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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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	20456.5	0.0	20456.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20456.5	0.0	20456.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40913.0	0.0	40913.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	0.7
10°-20°	840.2	2.1
20°-30°	1535.5	3.8
30°-40°	2647.4	6.5
40°-50°	4525.7	11.1
50°-60°	7335.6	17.9
60°-70°	12169.4	29.7
70°-80°	10718.4	26.2
80°-90°	864.2	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°	40913.0	100.0
0°-180°	40913.0	100.0



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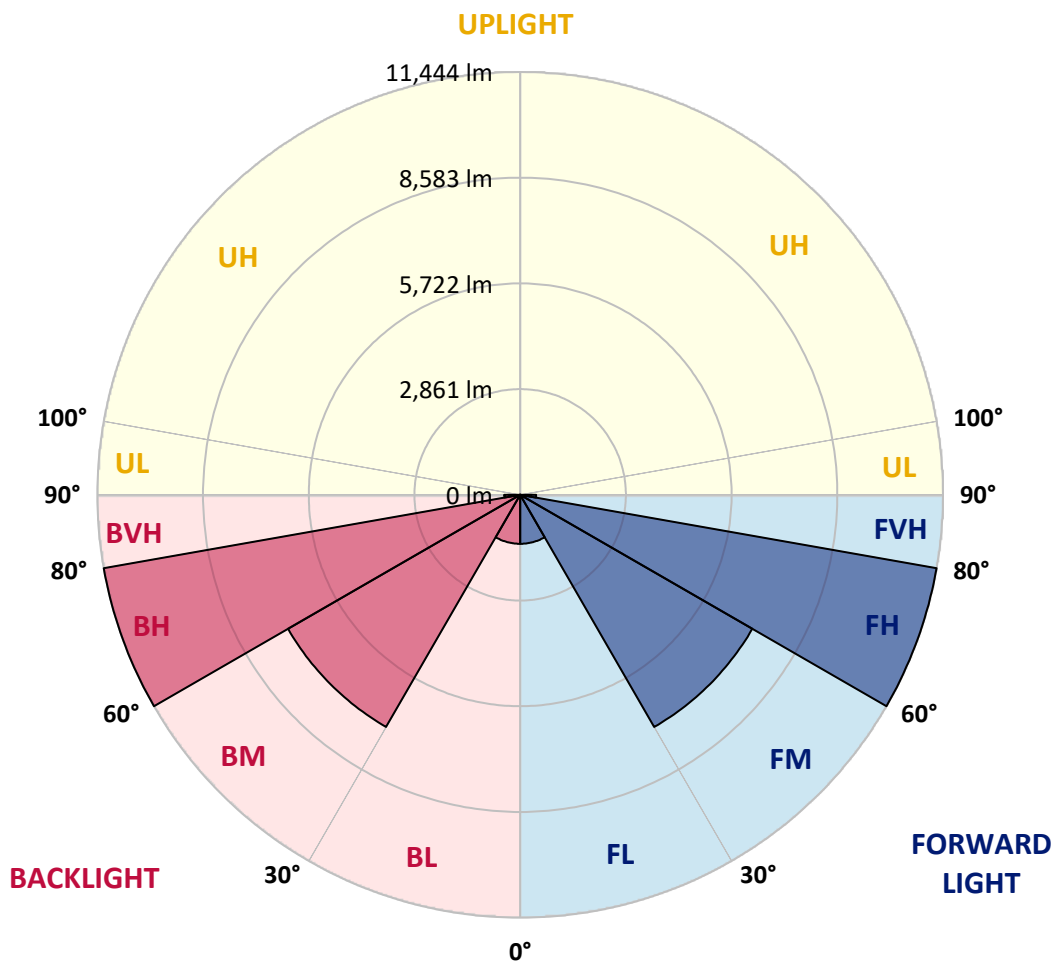
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1326.2	3.2			
FM	(30°-60°)	7254.3	17.7			
FH	(60°-80°)	11443.9	28.0			G4/12000
FVH	(80°-90°)	432.1	1.1			G3/500
BL	(0°-30°)	1326.2	3.2	B3/2500		
BM	(30°-60°)	7254.3	17.7	B4/8500		
BH	(60°-80°)	11443.9	28.0	B5		G4/12000
BVH	(80°-90°)	432.1	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°	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3
2.5°	2897.3	2899.2	2901.0	2899.2	2899.2	2897.3	2895.4	2897.3	2895.4	2891.6	2893.5
5°	2906.7	2910.4	2910.4	2906.7	2908.5	2906.7	2902.9	2904.8	2901.0	2895.4	2895.4
7.5°	2917.9	2919.8	2919.8	2916.0	2917.9	2914.2	2910.4	2908.5	2904.8	2897.3	2891.6
10°	2934.8	2936.7	2934.8	2931.1	2931.1	2925.4	2916.0	2912.3	2904.8	2893.5	2887.9
12.5°	2953.6	2955.4	2953.6	2949.8	2947.9	2938.6	2931.1	2925.4	2919.8	2910.4	2901.0
15°	2979.8	2983.6	2979.8	2972.3	2966.7	2959.2	2955.4	2957.3	2959.2	2951.7	2942.3
17.5°	3028.6	3030.5	3024.9	3008.0	3000.5	2993.0	2993.0	2996.7	3002.4	2998.6	2989.2
20°	3118.7	3113.1	3099.9	3079.3	3069.9	3056.8	3054.9	3056.8	3056.8	3054.9	3047.4
22.5°	3231.3	3227.5	3210.6	3184.4	3171.2	3163.7	3152.5	3143.1	3141.2	3135.6	3128.1
25°	3366.4	3364.5	3343.9	3321.4	3312.0	3302.6	3293.2	3280.1	3268.8	3255.7	3248.2
27.5°	3539.0	3531.5	3501.5	3490.2	3477.1	3471.5	3458.3	3443.3	3433.9	3417.1	3407.7
30°	3728.6	3728.6	3704.2	3700.4	3700.4	3687.3	3672.3	3646.0	3629.1	3612.2	3606.6
32.5°	3918.1	3920.0	3895.6	3903.1	3908.7	3918.1	3921.8	3912.4	3901.2	3899.3	3888.1
35°	4192.0	4184.5	4160.1	4165.8	4163.9	4162.0	4162.0	4182.7	4186.4	4190.2	4167.6
37.5°	4531.7	4531.7	4507.3	4507.3	4496.0	4484.8	4469.8	4482.9	4503.5	4509.2	4494.2
40°	4920.1	4933.3	4903.2	4901.4	4905.1	4869.5	4852.6	4873.2	4886.3	4908.9	4892.0
42.5°	5378.0	5368.6	5338.6	5334.8	5314.2	5302.9	5287.9	5304.8	5325.4	5340.4	5346.1
45°	5817.1	5809.6	5775.8	5775.8	5755.1	5745.8	5753.3	5781.4	5790.8	5811.4	5832.1
47.5°	6250.5	6241.2	6218.6	6228.0	6229.9	6246.8	6271.2	6297.4	6323.7	6351.9	6361.2
50°	6693.4	6695.3	6670.9	6693.4	6721.5	6768.4	6834.1	6877.3	6931.7	6967.3	6978.6
52.5°	7096.8	7104.3	7130.6	7183.1	7239.4	7331.4	7444.0	7549.1	7639.1	7699.2	7695.4
55°	7581.0	7592.2	7656.0	7746.1	7838.0	7976.9	8143.9	8329.7	8479.8	8566.1	8511.7
57.5°	8200.2	8224.6	8295.9	8417.9	8554.8	8735.0	8963.9	9243.5	9476.2	9592.5	9504.3
60°	9050.2	9065.2	9151.6	9286.7	9451.8	9675.1	9981.0	10356.3	10684.6	10838.5	10737.2
62.5°	10170.5	10198.6	10268.1	10405.0	10573.9	10827.3	11200.7	11669.8	12078.9	12292.8	12063.9
65°	11508.4	11598.5	11656.7	11795.5	11953.1	12221.5	12611.8	13114.7	13553.8	13694.5	13429.9
67.5°	12833.2	12912.0	13013.3	13172.8	13332.3	13634.5	13996.6	14484.5	14966.8	15094.4	14683.4
70°	13413.0	13458.1	13615.7	13833.4	14139.2	14495.8	14914.2	15462.1	16058.9	16163.9	15642.3
72.5°	12251.5	12296.5	12472.9	12842.6	13375.5	13942.2	14672.2	15477.2	16265.3	16383.5	15664.8
75°	9266.0	9192.8	9453.7	9943.4	10662.1	11452.1	12472.9	13627.0	14766.0	14914.2	14056.7
77.5°	4788.8	4779.4	4976.4	5584.4	6441.9	7340.8	8464.8	9768.9	10883.5	11333.9	10635.9
80°	1349.2	1364.2	1458.0	1760.1	2261.2	2910.4	3788.6	5010.2	5922.2	6387.5	5997.2
82.5°	529.2	570.4	606.1	662.4	728.1	823.8	1099.6	1636.3	2195.5	2623.3	2148.6
85°	189.5	202.7	287.1	339.6	345.3	364.0	414.7	484.1	583.6	696.2	572.3
87.5°	71.3	78.8	91.9	152.0	150.1	137.0	167.0	174.5	131.4	120.1	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°	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3	2897.3
2.5°	2889.8	2891.6	2891.6	2893.5	2895.4	2895.4	2899.2	2899.2
5°	2891.6	2891.6	2887.9	2889.8	2887.9	2887.9	2889.8	2889.8
7.5°	2887.9	2886.0	2882.3	2880.4	2876.6	2876.6	2876.6	2876.6
10°	2882.3	2880.4	2876.6	2874.8	2872.9	2872.9	2872.9	2872.9
12.5°	2897.3	2891.6	2887.9	2886.0	2886.0	2886.0	2886.0	2886.0
15°	2936.7	2923.5	2914.2	2914.2	2916.0	2919.8	2919.8	2923.5
17.5°	2985.5	2970.5	2961.1	2953.6	2957.3	2963.0	2966.7	2970.5
20°	3043.6	3036.1	3023.0	3015.5	3015.5	3023.0	3026.8	3028.6
22.5°	3124.3	3118.7	3113.1	3103.7	3103.7	3107.4	3114.9	3114.9
25°	3244.4	3240.7	3236.9	3229.4	3227.5	3227.5	3231.3	3235.0
27.5°	3394.5	3396.4	3392.7	3390.8	3385.2	3383.3	3388.9	3387.0
30°	3595.3	3604.7	3614.1	3606.6	3597.2	3591.6	3585.9	3578.4
32.5°	3867.4	3856.2	3848.6	3835.5	3818.6	3803.6	3792.4	3779.2
35°	4124.5	4105.7	4098.2	4109.5	4107.6	4098.2	4085.1	4073.8
37.5°	4439.7	4436.0	4439.7	4460.4	4456.6	4466.0	4439.7	4437.9
40°	4837.6	4841.3	4867.6	4892.0	4905.1	4918.2	4903.2	4888.2
42.5°	5299.2	5297.3	5306.7	5340.4	5363.0	5378.0	5346.1	5342.3
45°	5787.0	5773.9	5781.4	5809.6	5832.1	5849.0	5813.3	5813.3
47.5°	6323.7	6301.2	6276.8	6308.7	6321.8	6333.1	6305.0	6295.6
50°	6922.3	6875.4	6822.9	6836.0	6836.0	6832.2	6796.6	6794.7
52.5°	7609.1	7522.8	7427.1	7391.4	7370.8	7348.3	7286.3	7256.3
55°	8399.1	8269.6	8119.5	8027.6	7978.8	7916.8	7813.6	7785.5
57.5°	9322.3	9119.7	8860.7	8748.1	8639.3	8538.0	8423.5	8391.6
60°	10416.3	10117.9	9774.6	9566.3	9448.0	9350.5	9232.3	9226.6
62.5°	11636.0	11165.0	10776.6	10588.9	10502.6	10416.3	10303.7	10318.7
65°	12876.4	12384.7	12020.7	11868.7	11788.0	11716.7	11604.1	11621.0
67.5°	14099.8	13647.6	13247.9	13092.2	13002.1	12912.0	12810.7	12827.6
70°	14978.0	14417.0	13966.6	13621.3	13405.5	13161.6	13004.0	12964.6
72.5°	14726.6	13861.5	13146.6	12461.7	12060.1	11733.6	11512.2	11416.5
75°	12745.0	11562.8	10643.4	9802.7	9329.8	8945.2	8665.6	8491.0
77.5°	9464.9	8136.4	7049.9	6081.7	5316.1	4801.9	4439.7	4205.2
80°	5180.9	3940.6	2880.4	2024.7	1488.0	1236.6	1092.1	1022.7
82.5°	1613.8	1041.4	767.5	662.4	615.5	589.2	546.1	476.6
85°	514.2	450.4	418.5	399.7	380.9	332.1	228.9	208.3
87.5°	198.9	204.5	202.7	191.4	195.2	140.7	112.6	99.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)