

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: P191686

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191686
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-08-LED-E1-5WQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 40597 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 334
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

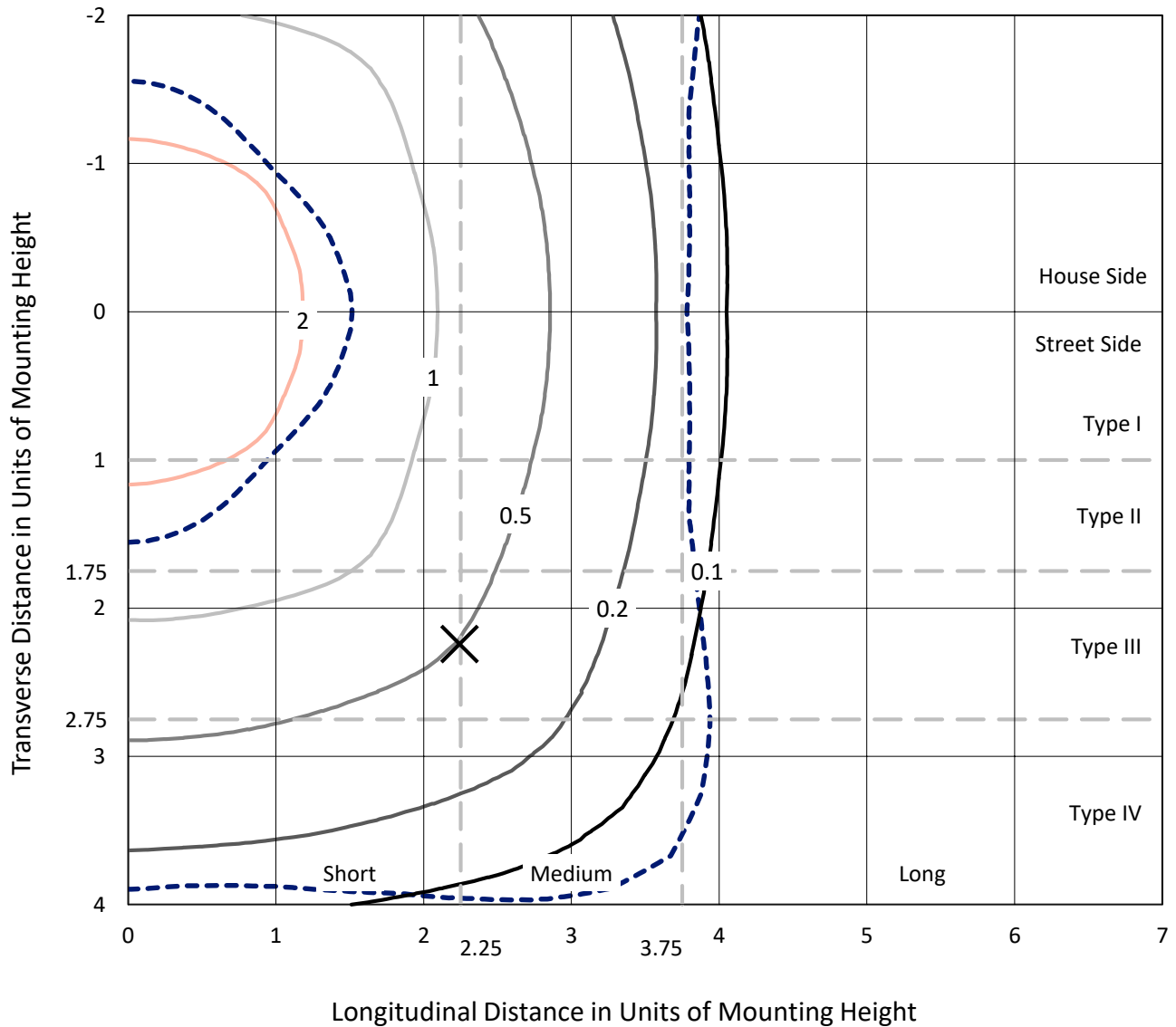


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

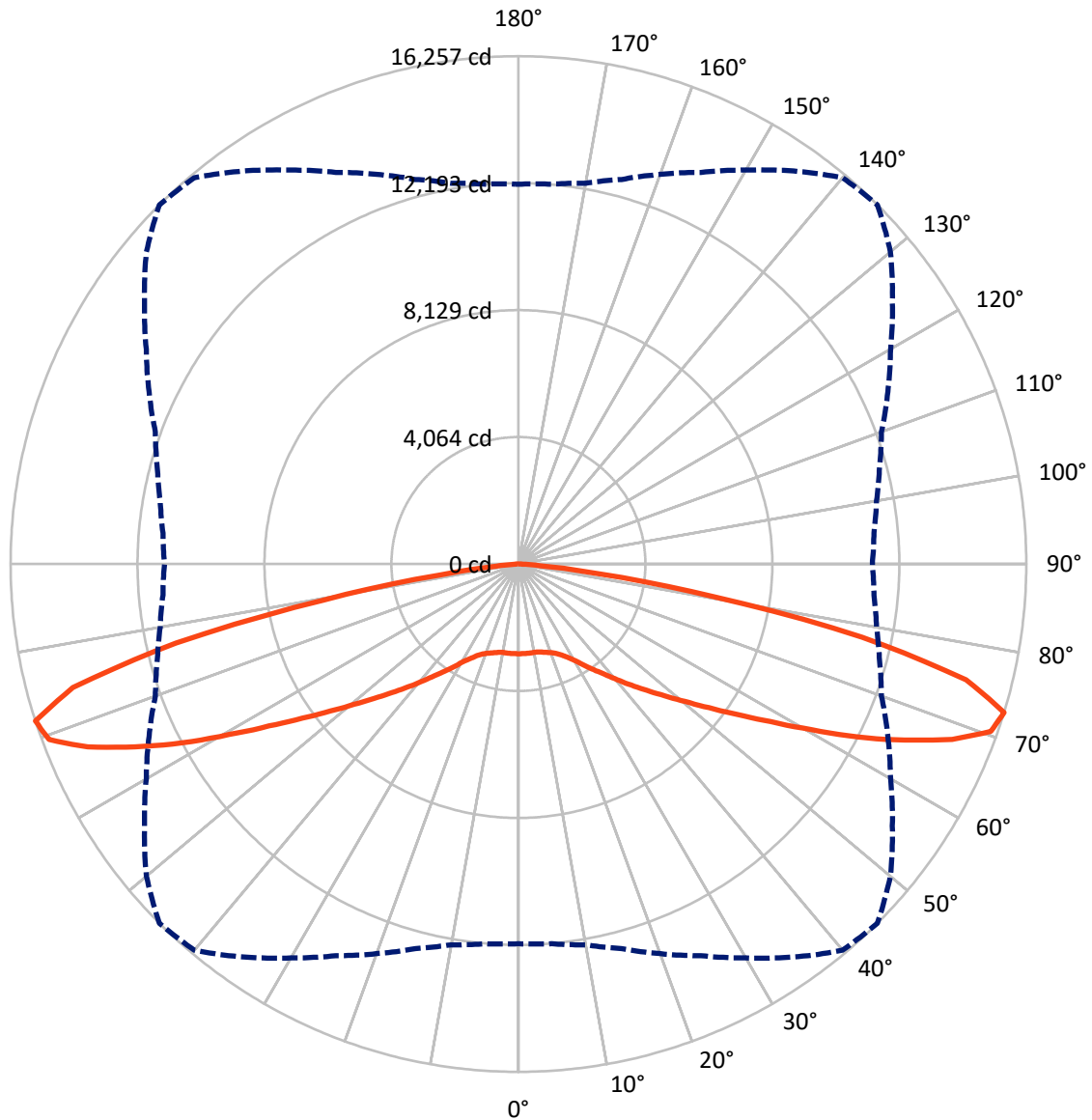


Based on 30 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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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	20298.5	0.0	20298.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20298.5	0.0	20298.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40597.0	0.0	40597.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	0.7
10°-20°	833.7	2.1
20°-30°	1523.6	3.8
30°-40°	2626.9	6.5
40°-50°	4490.7	11.1
50°-60°	7278.9	17.9
60°-70°	12075.4	29.7
70°-80°	10635.6	26.2
80°-90°	857.5	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°	40597.0	100.0
0°-180°	40597.0	100.0



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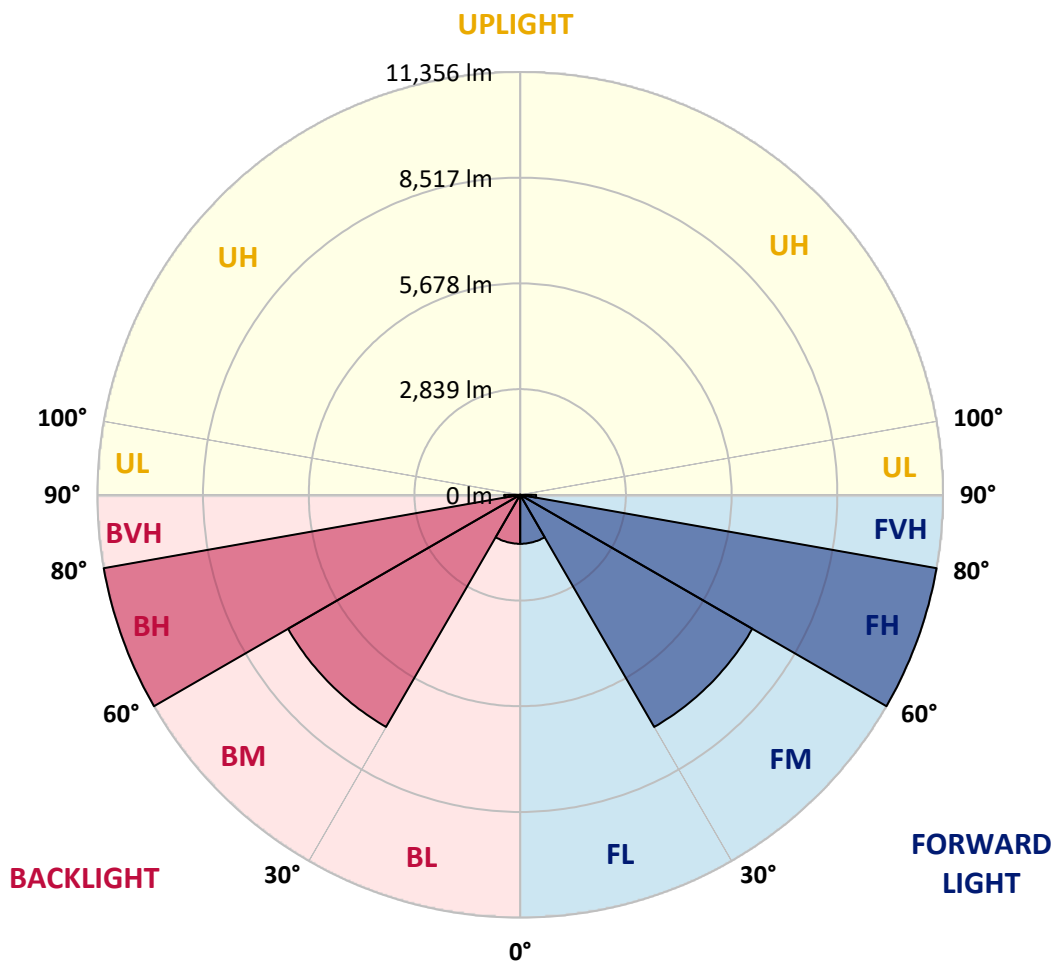
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.9	3.2			
FM	(30°-60°)	7198.3	17.7			
FH	(60°-80°)	11355.5	28.0			G4/12000
FVH	(80°-90°)	428.8	1.1			G3/500
BL	(0°-30°)	1315.9	3.2	B3/2500		
BM	(30°-60°)	7198.3	17.7	B4/8500		
BH	(60°-80°)	11355.5	28.0	B5		G4/12000
BVH	(80°-90°)	428.8	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°	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9
2.5°	2874.9	2876.8	2878.6	2876.8	2876.8	2874.9	2873.0	2874.9	2873.0	2869.3	2871.2
5°	2884.2	2887.9	2887.9	2884.2	2886.1	2884.2	2880.5	2882.3	2878.6	2873.0	2873.0
7.5°	2895.4	2897.2	2897.2	2893.5	2895.4	2891.7	2887.9	2886.1	2882.3	2874.9	2869.3
10°	2912.1	2914.0	2912.1	2908.4	2908.4	2902.8	2893.5	2889.8	2882.3	2871.2	2865.6
12.5°	2930.8	2932.6	2930.8	2927.0	2925.2	2915.9	2908.4	2902.8	2897.2	2887.9	2878.6
15°	2956.8	2960.5	2956.8	2949.4	2943.8	2936.3	2932.6	2934.5	2936.3	2928.9	2919.6
17.5°	3005.2	3007.1	3001.5	2984.8	2977.3	2969.9	2969.9	2973.6	2979.2	2975.4	2966.1
20°	3094.6	3089.0	3076.0	3055.5	3046.2	3033.2	3031.3	3033.2	3033.2	3031.3	3023.9
22.5°	3206.3	3202.6	3185.8	3159.8	3146.7	3139.3	3128.1	3118.8	3117.0	3111.4	3103.9
25°	3340.4	3338.5	3318.0	3295.7	3286.4	3277.1	3267.8	3254.7	3243.6	3230.5	3223.1
27.5°	3511.7	3504.2	3474.5	3463.3	3450.3	3444.7	3431.6	3416.7	3407.4	3390.7	3381.4
30°	3699.8	3699.8	3675.5	3671.8	3671.8	3658.8	3643.9	3617.8	3601.1	3584.3	3578.7
32.5°	3887.8	3889.7	3865.5	3872.9	3878.5	3887.8	3891.5	3882.2	3871.1	3869.2	3858.0
35°	4159.7	4152.2	4128.0	4133.6	4131.7	4129.9	4129.9	4150.4	4154.1	4157.8	4135.5
37.5°	4496.7	4496.7	4472.5	4472.5	4461.3	4450.1	4435.2	4448.3	4468.8	4474.3	4459.4
40°	4882.1	4895.1	4865.4	4863.5	4867.2	4831.8	4815.1	4835.6	4848.6	4870.9	4854.2
42.5°	5336.4	5327.1	5297.3	5293.6	5273.1	5262.0	5247.1	5263.8	5284.3	5299.2	5304.8
45°	5772.1	5764.7	5731.2	5731.2	5710.7	5701.4	5708.8	5736.8	5746.1	5766.6	5787.0
47.5°	6202.3	6192.9	6170.6	6179.9	6181.8	6198.5	6222.7	6248.8	6274.9	6302.8	6312.1
50°	6641.7	6643.5	6619.3	6641.7	6669.6	6716.2	6781.3	6824.2	6878.2	6913.5	6924.7
52.5°	7042.0	7049.5	7075.5	7127.7	7183.5	7274.8	7386.5	7490.7	7580.1	7639.7	7636.0
55°	7522.4	7533.6	7596.9	7686.3	7777.5	7915.3	8081.0	8265.3	8414.3	8499.9	8445.9
57.5°	8136.9	8161.1	8231.8	8352.8	8488.8	8667.5	8894.7	9172.1	9403.0	9518.4	9430.9
60°	8980.3	8995.2	9080.9	9214.9	9378.8	9600.4	9903.9	10276.3	10602.1	10754.8	10654.3
62.5°	10091.9	10119.9	10188.8	10324.7	10492.3	10743.6	11114.2	11579.7	11985.6	12197.8	11970.7
65°	11419.5	11508.9	11566.6	11704.4	11860.8	12127.1	12514.4	13013.4	13449.1	13588.7	13326.2
67.5°	12734.1	12812.3	12912.8	13071.1	13229.4	13529.2	13888.5	14372.6	14851.2	14977.8	14570.0
70°	13309.4	13354.1	13510.5	13726.5	14030.0	14383.8	14799.0	15342.7	15934.8	16039.1	15521.5
72.5°	12156.9	12201.6	12376.6	12743.4	13272.2	13834.5	14558.8	15357.6	16139.6	16257.0	15543.8
75°	9194.5	9121.8	9380.7	9866.6	10579.8	11363.7	12376.6	13521.7	14651.9	14799.0	13948.1
77.5°	4751.8	4742.5	4938.0	5541.3	6392.2	7284.1	8399.4	9693.5	10799.5	11246.4	10553.7
80°	1338.8	1353.7	1446.8	1746.5	2243.7	2887.9	3759.3	4971.5	5876.4	6338.2	5950.9
82.5°	525.1	566.0	601.4	657.3	722.4	817.4	1091.1	1623.6	2178.5	2603.0	2132.0
85°	188.1	201.1	284.9	337.0	342.6	361.2	411.5	480.4	579.1	690.8	567.9
87.5°	70.8	78.2	91.2	150.8	149.0	135.9	165.7	173.2	130.3	119.2	147.1
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°	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9	2874.9
2.5°	2867.5	2869.3	2869.3	2871.2	2873.0	2873.0	2876.8	2876.8
5°	2869.3	2869.3	2865.6	2867.5	2865.6	2865.6	2867.5	2867.5
7.5°	2865.6	2863.7	2860.0	2858.1	2854.4	2854.4	2854.4	2854.4
10°	2860.0	2858.1	2854.4	2852.6	2850.7	2850.7	2850.7	2850.7
12.5°	2874.9	2869.3	2865.6	2863.7	2863.7	2863.7	2863.7	2863.7
15°	2914.0	2901.0	2891.7	2891.7	2893.5	2897.2	2897.2	2901.0
17.5°	2962.4	2947.5	2938.2	2930.8	2934.5	2940.1	2943.8	2947.5
20°	3020.1	3012.7	2999.7	2992.2	2992.2	2999.7	3003.4	3005.2
22.5°	3100.2	3094.6	3089.0	3079.7	3079.7	3083.4	3090.9	3090.9
25°	3219.4	3215.6	3211.9	3204.5	3202.6	3202.6	3206.3	3210.1
27.5°	3368.3	3370.2	3366.5	3364.6	3359.0	3357.2	3362.7	3360.9
30°	3567.6	3576.9	3586.2	3578.7	3569.4	3563.8	3558.2	3550.8
32.5°	3837.5	3826.4	3818.9	3805.9	3789.1	3774.2	3763.1	3750.0
35°	4092.6	4074.0	4066.6	4077.7	4075.9	4066.6	4053.5	4042.4
37.5°	4405.4	4401.7	4405.4	4425.9	4422.2	4431.5	4405.4	4403.6
40°	4800.2	4803.9	4830.0	4854.2	4867.2	4880.3	4865.4	4850.5
42.5°	5258.2	5256.4	5265.7	5299.2	5321.5	5336.4	5304.8	5301.1
45°	5742.3	5729.3	5736.8	5764.7	5787.0	5803.8	5768.4	5768.4
47.5°	6274.9	6252.5	6228.3	6260.0	6273.0	6284.2	6256.3	6246.9
50°	6868.8	6822.3	6770.2	6783.2	6783.2	6779.5	6744.1	6742.2
52.5°	7550.3	7464.7	7369.7	7334.3	7313.9	7291.5	7230.1	7200.3
55°	8334.2	8205.7	8056.8	7965.6	7917.1	7855.7	7753.3	7725.4
57.5°	9250.3	9049.2	8792.3	8680.6	8572.6	8472.0	8358.4	8326.8
60°	10335.9	10039.8	9699.1	9492.4	9375.1	9278.2	9160.9	9155.4
62.5°	11546.1	11078.8	10693.4	10507.2	10421.5	10335.9	10224.1	10239.0
65°	12776.9	12289.1	11927.8	11777.0	11697.0	11626.2	11514.5	11531.2
67.5°	13990.9	13542.2	13145.6	12991.0	12901.7	12812.3	12711.7	12728.5
70°	14862.3	14305.6	13858.7	13516.1	13302.0	13059.9	12903.5	12864.4
72.5°	14612.8	13754.5	13045.0	12365.4	11967.0	11643.0	11423.3	11328.3
75°	12646.6	11473.5	10561.2	9727.0	9257.8	8876.1	8598.6	8425.5
77.5°	9391.8	8073.5	6995.5	6034.7	5275.0	4764.8	4405.4	4172.7
80°	5140.9	3910.2	2858.1	2009.1	1476.6	1227.0	1083.7	1014.8
82.5°	1601.3	1033.4	761.6	657.3	610.7	584.7	541.8	472.9
85°	510.2	446.9	415.2	396.6	378.0	329.6	227.2	206.7
87.5°	197.4	203.0	201.1	189.9	193.6	139.6	111.7	98.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)