

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: P190834

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5NQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24751.3 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

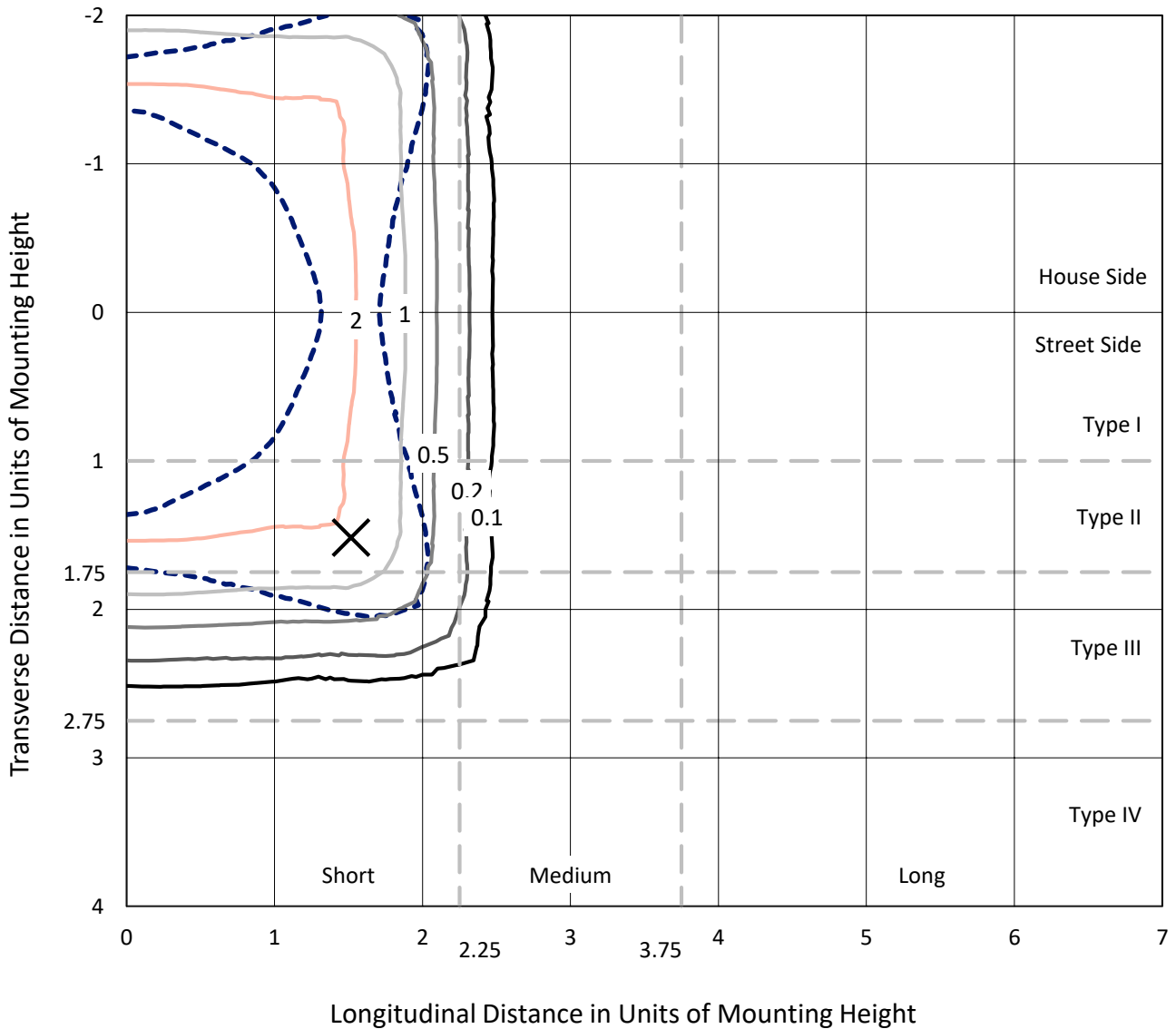
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

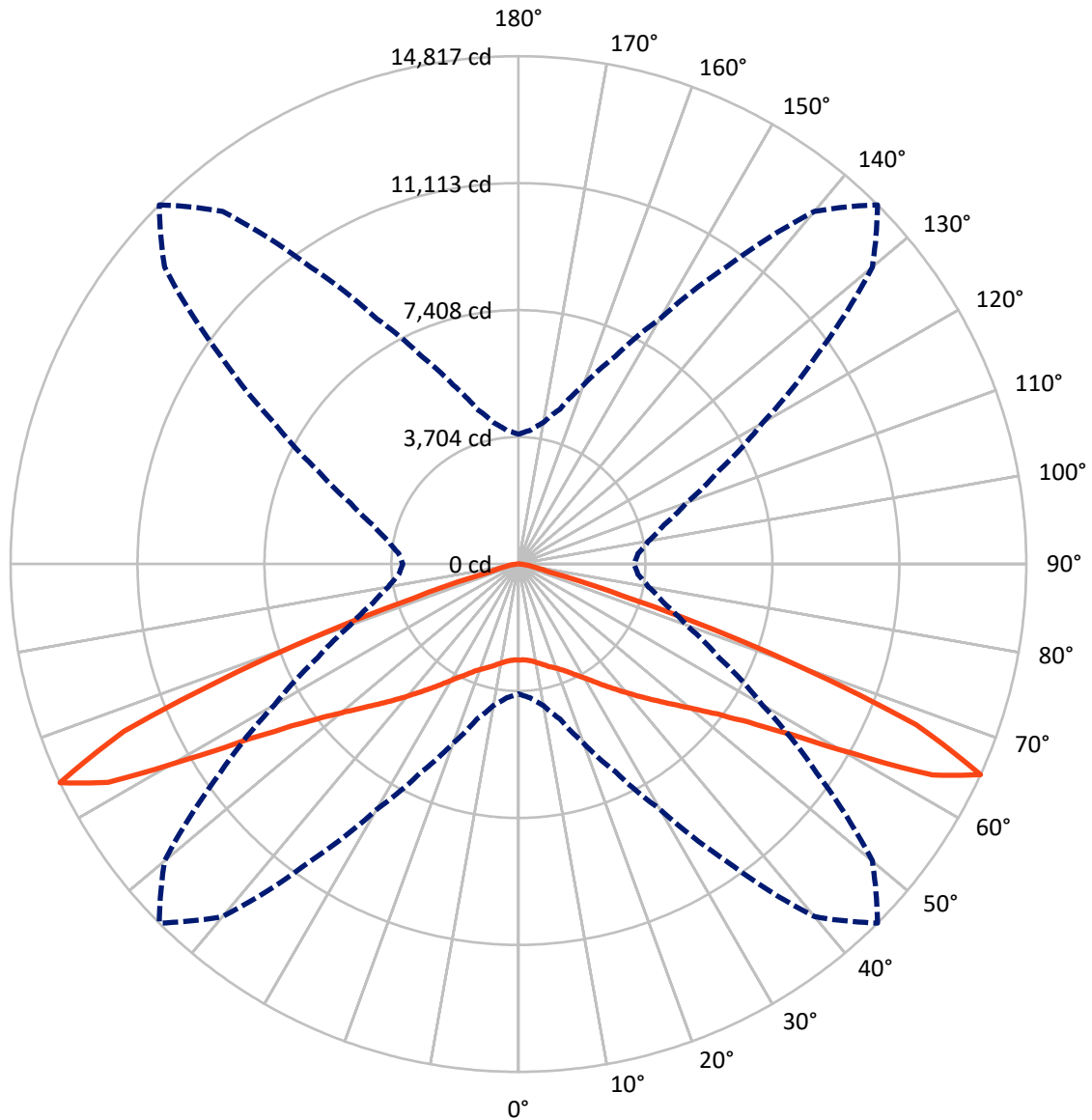
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12375.7	0.0	12375.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12375.7	0.0	12375.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24751.3	0.0	24751.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	1.1
10°-20°	875.5	3.5
20°-30°	1637.0	6.6
30°-40°	2768.6	11.2
40°-50°	4526.9	18.3
50°-60°	7198.4	29.1
60°-70°	6506.9	26.3
70°-80°	823.5	3.3
80°-90°	141.7	0.6
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°	24751.3	100.0
0°-180°	24751.3	100.0



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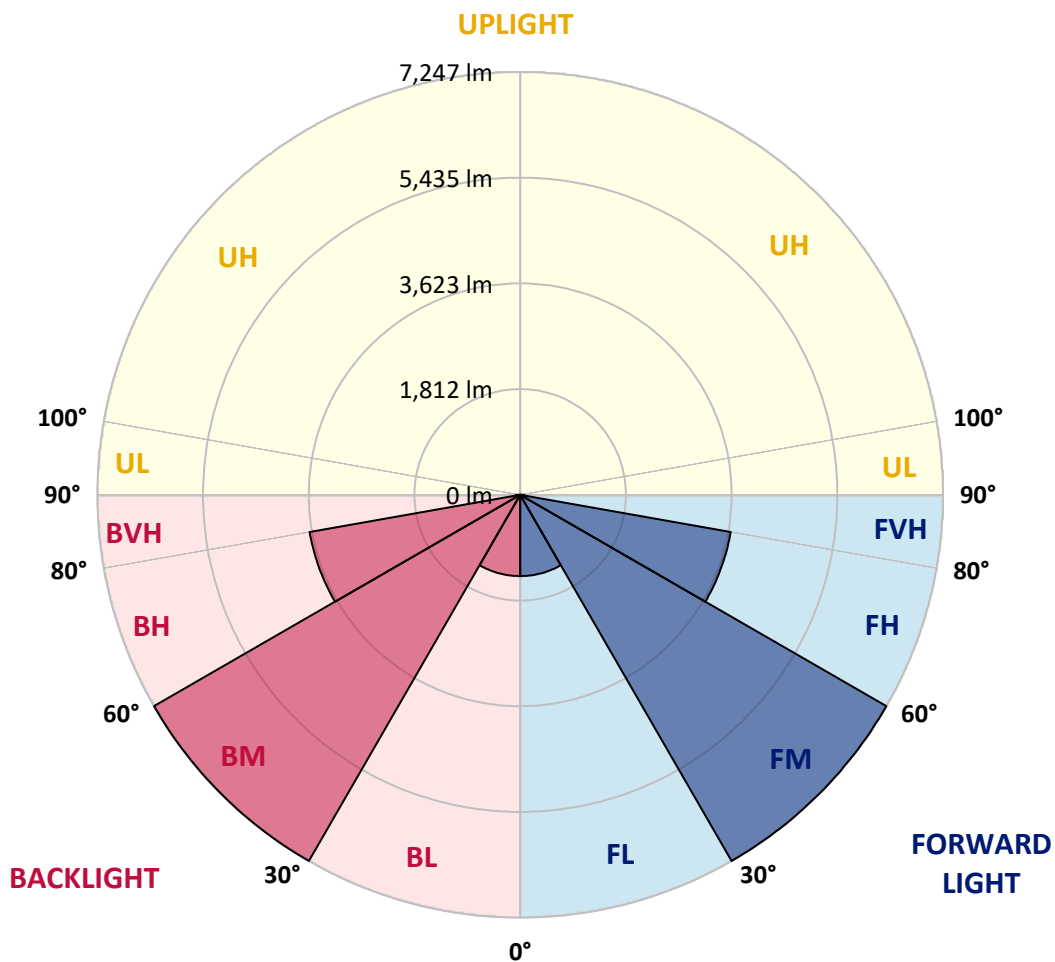
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.7	5.6			
FM	(30°-60°)	7246.9	29.3			
FH	(60°-80°)	3665.2	14.8			G2/5000
FVH	(80°-90°)	70.8	0.3			G1/100
BL	(0°-30°)	1392.7	5.6	B3/2500		
BM	(30°-60°)	7246.9	29.3	B4/8500		
BH	(60°-80°)	3665.2	14.8	B4/5000		G2/5000
BVH	(80°-90°)	70.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6
2.5°	2803.0	2805.2	2807.6	2805.2	2807.6	2804.1	2801.8	2805.2	2801.8	2798.3	2800.6
5°	2827.3	2828.5	2828.5	2825.0	2828.5	2826.1	2822.6	2827.3	2823.9	2820.4	2822.6
7.5°	2867.8	2872.4	2869.0	2865.5	2867.8	2865.5	2863.2	2864.4	2863.2	2859.8	2860.9
10°	2922.4	2925.8	2923.5	2922.4	2924.6	2923.5	2921.1	2920.0	2921.1	2917.7	2917.7
12.5°	2988.4	2987.2	2986.1	2987.2	2990.7	2990.7	2989.6	2990.7	2993.1	2994.2	2991.9
15°	3053.3	3055.7	3055.7	3055.7	3062.6	3068.4	3071.9	3074.2	3078.9	3080.0	3075.4
17.5°	3134.4	3134.4	3133.3	3134.4	3141.4	3150.7	3154.2	3158.8	3163.5	3167.0	3161.1
20°	3224.9	3227.2	3227.2	3229.6	3238.8	3249.2	3249.2	3251.6	3249.2	3251.6	3248.1
22.5°	3335.0	3342.0	3342.0	3343.1	3352.4	3365.2	3361.7	3365.2	3359.4	3364.0	3359.4
25°	3478.7	3489.2	3486.8	3486.8	3493.8	3502.0	3503.1	3510.1	3508.9	3514.7	3511.2
27.5°	3641.1	3657.3	3662.0	3660.7	3665.4	3673.5	3675.8	3684.0	3679.2	3684.0	3681.6
30°	3835.8	3842.7	3852.0	3855.5	3861.3	3869.4	3869.4	3870.5	3864.8	3871.8	3875.2
32.5°	4037.5	4050.3	4059.5	4080.3	4090.8	4096.6	4095.5	4097.7	4092.0	4101.2	4108.2
35°	4304.1	4313.4	4328.4	4344.7	4358.6	4357.5	4354.0	4355.1	4355.1	4363.2	4370.1
37.5°	4625.2	4627.5	4647.3	4670.4	4677.3	4670.4	4649.5	4644.9	4634.5	4644.9	4656.5
40°	4964.9	4973.0	5012.4	5027.5	5031.0	5018.2	4988.0	4970.6	4947.5	4960.2	4976.5
42.5°	5320.7	5336.9	5372.8	5399.5	5411.1	5403.0	5361.3	5334.6	5304.5	5311.5	5327.6
45°	5714.8	5734.6	5785.6	5811.1	5833.1	5820.4	5779.8	5739.2	5691.7	5695.2	5720.6
47.5°	6155.3	6175.0	6241.1	6284.0	6295.6	6293.3	6248.1	6192.4	6127.5	6125.2	6147.2
50°	6649.2	6668.9	6751.2	6817.3	6850.9	6847.4	6794.0	6715.3	6636.4	6637.6	6665.4
52.5°	7131.4	7155.7	7241.5	7355.1	7421.2	7468.8	7436.2	7362.1	7265.8	7268.2	7293.6
55°	7583.4	7624.1	7722.6	7876.7	7999.7	8133.0	8171.2	8168.9	8110.9	8127.1	8152.6
57.5°	7802.6	7862.8	8014.7	8258.2	8508.5	8779.8	9009.3	9180.9	9253.9	9364.0	9338.5
60°	7387.5	7483.8	7707.5	8065.7	8560.7	9126.4	9732.7	10324.9	10830.4	11211.7	10992.7
62.5°	6048.7	6173.9	6445.1	6904.2	7653.0	8558.4	9718.7	11119.1	12644.6	13564.9	12907.7
65°	3784.8	3914.6	4190.5	4682.0	5558.4	6684.0	8258.2	10578.8	13429.3	14816.9	13479.1
67.5°	1475.7	1546.4	1696.0	2010.1	2668.5	3670.0	5250.0	7883.7	11293.0	12508.9	11083.1
70°	739.6	746.5	774.4	832.3	973.7	1264.7	1924.3	3655.0	6476.4	7822.3	6243.5
72.5°	534.4	535.5	549.4	575.0	620.2	685.1	810.3	1118.6	2106.3	3219.1	1974.1
75°	409.2	413.8	422.0	435.9	460.2	492.7	537.9	644.6	798.7	926.2	779.0
77.5°	315.3	324.6	330.4	343.1	358.2	380.2	393.0	433.5	504.2	530.9	522.8
80°	240.0	248.1	260.9	271.3	281.7	292.2	287.4	306.1	343.1	365.2	353.5
82.5°	153.0	162.2	199.4	208.7	213.3	220.2	212.2	213.3	229.6	243.5	229.6
85°	98.5	104.3	126.3	137.9	139.1	143.7	140.2	132.2	132.2	120.6	135.6
87.5°	45.2	46.3	56.8	67.2	69.6	62.6	61.5	59.1	47.6	45.2	48.7
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°	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6
2.5°	2799.5	2801.8	2803.0	2806.5	2807.6	2807.6	2808.7	2811.1
5°	2821.5	2825.0	2826.1	2830.8	2831.9	2830.8	2833.1	2834.3
7.5°	2860.9	2866.7	2869.0	2873.7	2870.2	2874.8	2875.9	2875.9
10°	2918.9	2924.6	2925.8	2930.4	2928.1	2930.4	2930.4	2928.1
12.5°	2995.4	2996.5	2993.1	2996.5	2991.9	2994.2	2990.7	2988.4
15°	3080.0	3076.5	3068.4	3068.4	3061.5	3062.6	3061.5	3060.3
17.5°	3162.2	3155.3	3149.6	3147.2	3141.4	3140.3	3136.8	3136.8
20°	3252.7	3249.2	3245.7	3241.1	3235.3	3229.6	3228.3	3230.7
22.5°	3361.7	3360.5	3360.5	3358.2	3350.1	3344.3	3340.9	3340.9
25°	3507.7	3497.3	3497.3	3496.1	3492.7	3489.2	3482.2	3485.7
27.5°	3672.4	3666.6	3671.2	3670.0	3666.6	3666.6	3662.0	3662.0
30°	3875.2	3872.9	3879.8	3874.0	3862.5	3861.3	3856.6	3850.9
32.5°	4109.4	4107.0	4117.5	4110.5	4092.0	4081.6	4072.3	4067.7
35°	4370.1	4371.4	4384.1	4379.5	4358.6	4351.6	4335.4	4333.1
37.5°	4655.3	4673.9	4696.0	4700.6	4683.2	4678.6	4661.2	4651.9
40°	4990.4	5014.7	5048.3	5056.4	5037.8	5034.5	5010.1	4997.3
42.5°	5347.4	5389.1	5430.8	5437.8	5419.3	5400.7	5377.6	5368.2
45°	5746.1	5796.0	5850.5	5864.4	5836.5	5814.6	5784.4	5784.4
47.5°	6193.6	6256.2	6317.6	6355.9	6330.4	6307.2	6271.3	6248.1
50°	6722.2	6807.9	6887.9	6927.4	6886.8	6842.7	6780.1	6759.2
52.5°	7385.3	7478.0	7547.5	7526.7	7464.1	7402.7	7334.3	7306.4
55°	8231.5	8262.8	8262.8	8183.9	8058.7	7955.6	7847.8	7811.9
57.5°	9289.8	9169.2	8983.8	8748.5	8452.8	8195.6	8021.7	7939.3
60°	10533.6	9954.0	9299.1	8655.7	8127.1	7691.3	7432.8	7314.5
62.5°	11362.4	9846.2	8534.1	7501.2	6740.7	6215.7	5858.5	5719.5
65°	10619.5	8211.7	6454.4	5218.7	4389.9	3855.5	3502.0	3372.2
67.5°	7778.2	5145.6	3437.0	2463.3	1804.9	1439.7	1294.9	1234.5
70°	3491.5	1811.9	1110.5	867.1	747.7	686.2	659.6	650.3
72.5°	1052.5	761.6	642.2	579.6	532.0	502.0	479.9	477.6
75°	635.3	528.6	469.4	432.4	402.2	377.9	366.3	362.8
77.5°	444.0	388.3	360.5	333.9	310.7	292.2	281.7	273.5
80°	311.8	285.2	272.4	257.4	242.2	224.8	209.8	202.9
82.5°	208.7	202.9	202.9	193.5	180.9	164.6	134.5	127.6
85°	134.5	133.3	135.6	132.2	122.9	105.5	87.0	82.3
87.5°	62.6	63.7	70.7	69.6	67.2	55.6	44.1	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)