

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: P269367

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269367
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25777.6 lumens
Efficiency: N/A
Efficacy: 103.5 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): 249
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

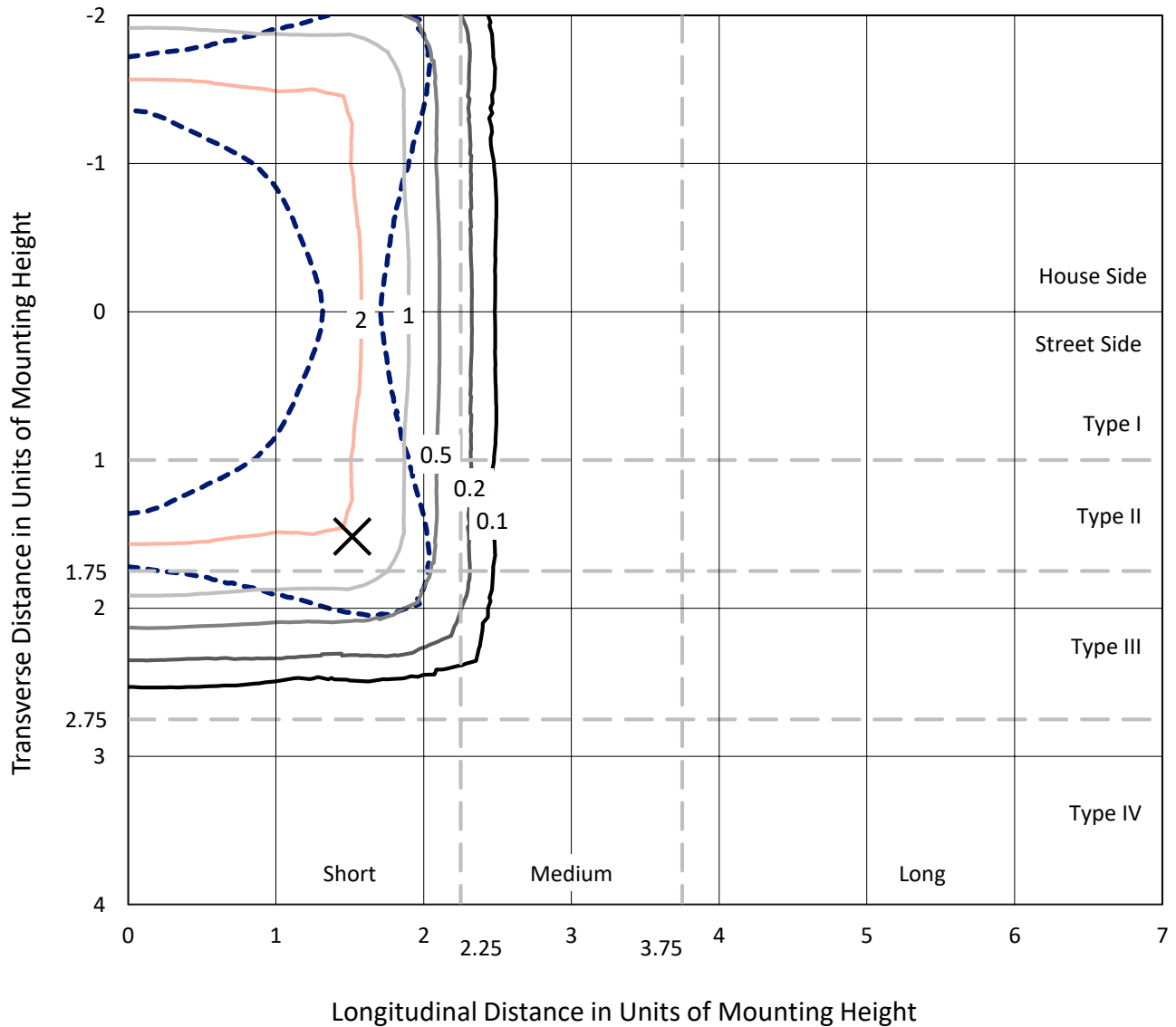


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

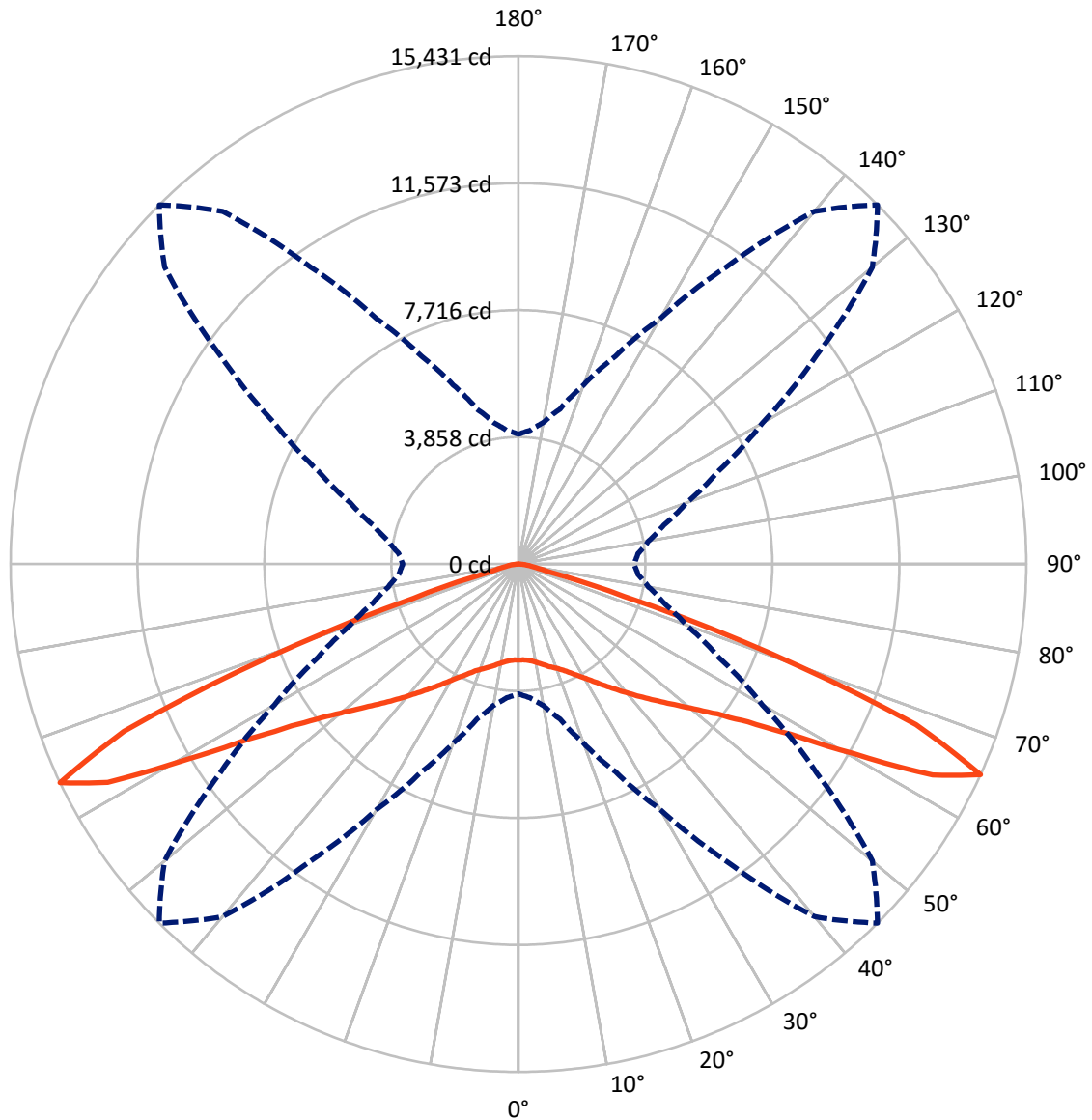


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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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	12888.8	0.0	12888.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12888.8	0.0	12888.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	25777.6	0.0	25777.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	1.1
10°-20°	911.8	3.5
20°-30°	1704.8	6.6
30°-40°	2883.3	11.2
40°-50°	4714.6	18.3
50°-60°	7496.9	29.1
60°-70°	6776.7	26.3
70°-80°	857.6	3.3
80°-90°	147.5	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°	25777.6	100.0
0°-180°	25777.6	100.0



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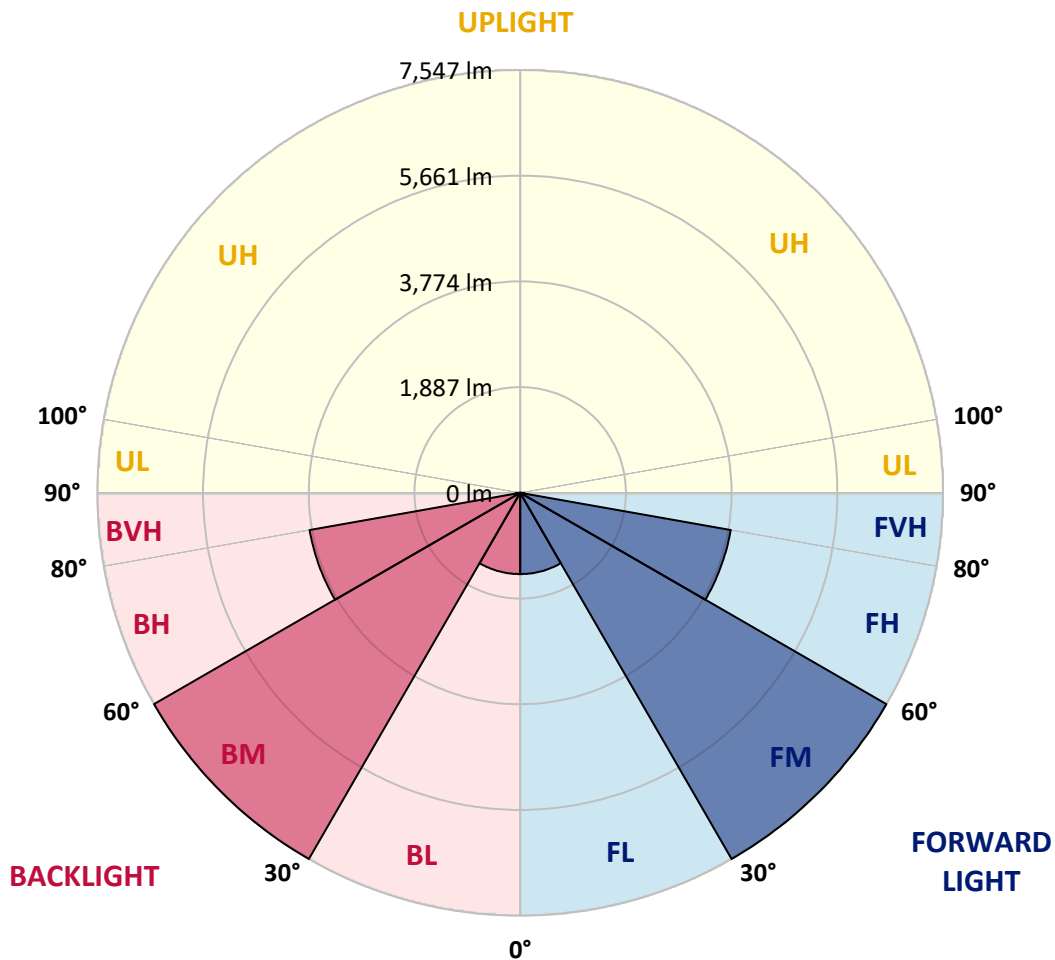
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1450.4	5.6			
FM	(30°-60°)	7547.4	29.3			
FH	(60°-80°)	3817.2	14.8			G2/5000
FVH	(80°-90°)	73.8	0.3			G1/100
BL	(0°-30°)	1450.4	5.6	B3/2500		
BM	(30°-60°)	7547.4	29.3	B4/8500		
BH	(60°-80°)	3817.2	14.8	B4/5000		G2/5000
BVH	(80°-90°)	73.8	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°	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7
2.5°	2919.1	2921.6	2924.1	2921.6	2924.1	2920.4	2918.0	2921.6	2918.0	2914.3	2916.7
5°	2944.6	2945.7	2945.7	2942.0	2945.7	2943.2	2939.8	2944.6	2941.0	2937.3	2939.8
7.5°	2986.8	2991.5	2988.0	2984.3	2986.8	2984.3	2982.0	2983.1	2982.0	2978.3	2979.5
10°	3043.5	3047.1	3044.7	3043.5	3046.0	3044.7	3042.3	3041.1	3042.3	3038.6	3038.6
12.5°	3112.4	3111.1	3109.9	3111.1	3114.8	3114.8	3113.5	3114.8	3117.2	3118.3	3116.0
15°	3179.9	3182.3	3182.3	3182.3	3189.6	3195.6	3199.3	3201.6	3206.5	3207.7	3202.8
17.5°	3264.4	3264.4	3263.3	3264.4	3271.6	3281.4	3284.9	3289.9	3294.7	3298.2	3292.2
20°	3358.7	3361.0	3361.0	3363.4	3373.0	3383.9	3383.9	3386.4	3383.9	3386.4	3382.7
22.5°	3473.2	3480.6	3480.6	3481.7	3491.4	3504.6	3501.1	3504.6	3498.7	3503.5	3498.7
25°	3623.0	3633.9	3631.5	3631.5	3638.8	3647.2	3648.3	3655.7	3654.3	3660.5	3656.8
27.5°	3792.0	3809.0	3813.8	3812.5	3817.3	3825.8	3828.2	3836.8	3831.9	3836.8	3834.2
30°	3994.9	4002.0	4011.7	4015.3	4021.4	4029.8	4029.8	4031.1	4025.0	4032.2	4035.8
32.5°	4204.8	4218.3	4227.9	4249.6	4260.4	4266.5	4265.2	4267.7	4261.6	4271.4	4278.5
35°	4482.6	4492.2	4508.0	4524.9	4539.3	4538.1	4534.5	4535.7	4535.7	4544.2	4551.4
37.5°	4817.0	4819.3	4839.9	4864.1	4871.2	4864.1	4842.4	4837.6	4826.7	4837.6	4849.6
40°	5170.7	5179.2	5220.2	5236.0	5239.5	5226.2	5194.9	5176.8	5152.6	5166.0	5182.9
42.5°	5541.4	5558.3	5595.7	5623.4	5635.4	5627.1	5583.7	5555.8	5524.4	5531.8	5548.7
45°	5951.8	5972.3	6025.4	6052.1	6075.0	6061.7	6019.5	5977.1	5927.6	5931.2	5957.9
47.5°	6410.6	6431.1	6500.0	6544.6	6556.6	6554.3	6507.1	6449.2	6381.6	6379.3	6402.1
50°	6924.9	6945.3	7031.2	7099.9	7135.0	7131.4	7075.8	6993.7	6911.6	6912.7	6941.8
52.5°	7427.0	7452.5	7541.8	7660.0	7728.8	7778.5	7744.6	7667.4	7567.1	7569.6	7596.1
55°	7897.9	7940.2	8042.9	8203.3	8331.3	8470.2	8510.1	8507.6	8447.2	8464.1	8490.7
57.5°	8126.1	8188.9	8347.1	8600.6	8861.3	9143.8	9382.8	9561.5	9637.6	9752.3	9725.7
60°	7694.0	7794.1	8027.2	8400.1	8915.7	9504.7	10136.1	10753.2	11279.5	11676.7	11448.4
62.5°	6299.5	6429.9	6712.3	7190.5	7970.3	8913.3	10121.7	11580.1	13168.9	14127.5	13442.9
65°	3941.8	4077.0	4364.2	4876.1	5788.9	6961.1	8600.6	11017.5	13986.3	15431.3	14038.1
67.5°	1536.8	1610.5	1766.2	2093.4	2779.1	3822.2	5467.8	8210.6	11761.1	13027.6	11542.6
70°	770.2	777.5	806.5	866.9	1014.0	1317.2	2004.1	3806.5	6745.1	8146.5	6502.3
72.5°	556.6	557.8	572.2	598.8	645.9	713.6	843.9	1165.0	2193.7	3352.6	2056.0
75°	426.2	430.9	439.5	454.0	479.2	513.1	560.2	671.3	831.8	964.6	811.3
77.5°	328.4	338.0	344.1	357.3	373.1	396.1	409.3	451.5	525.1	552.9	544.5
80°	249.9	258.4	271.6	282.4	293.3	304.3	299.4	318.7	357.3	380.3	368.2
82.5°	159.4	169.1	207.7	217.3	222.2	229.3	221.0	222.2	238.9	253.5	238.9
85°	102.6	108.7	131.6	143.6	144.8	149.7	146.1	137.6	137.6	125.6	141.3
87.5°	47.2	48.2	59.2	70.0	72.5	65.1	64.0	61.5	49.4	47.2	50.8
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°	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7	2916.7
2.5°	2915.5	2918.0	2919.1	2922.7	2924.1	2924.1	2925.2	2927.7
5°	2938.4	2942.0	2943.2	2948.1	2949.3	2948.1	2950.6	2951.8
7.5°	2979.5	2985.5	2988.0	2992.9	2989.2	2994.1	2995.2	2995.2
10°	3040.0	3046.0	3047.1	3052.0	3049.6	3052.0	3052.0	3049.6
12.5°	3119.5	3120.8	3117.2	3120.8	3116.0	3118.3	3114.8	3112.4
15°	3207.7	3204.1	3195.6	3195.6	3188.4	3189.6	3188.4	3187.1
17.5°	3293.5	3286.2	3280.2	3277.7	3271.6	3270.5	3266.9	3266.9
20°	3387.6	3383.9	3380.3	3375.6	3369.5	3363.4	3362.3	3364.6
22.5°	3501.1	3499.8	3499.8	3497.5	3488.9	3483.0	3479.3	3479.3
25°	3653.1	3642.3	3642.3	3641.1	3637.4	3633.9	3626.6	3630.2
27.5°	3824.7	3818.5	3823.4	3822.2	3818.5	3818.5	3813.8	3813.8
30°	4035.8	4033.5	4040.8	4034.6	4022.6	4021.4	4016.6	4010.6
32.5°	4279.7	4277.3	4288.1	4281.0	4261.6	4250.8	4241.1	4236.2
35°	4551.4	4552.6	4565.8	4561.1	4539.3	4532.0	4515.2	4512.7
37.5°	4848.4	4867.6	4890.6	4895.5	4877.3	4872.5	4854.4	4844.7
40°	5197.2	5222.7	5257.6	5266.1	5246.8	5243.1	5217.7	5204.5
42.5°	5569.1	5612.6	5656.1	5663.3	5644.1	5624.6	5600.6	5590.8
45°	5984.4	6036.3	6093.1	6107.5	6078.7	6055.7	6024.3	6024.3
47.5°	6450.4	6515.5	6579.5	6619.4	6592.9	6568.8	6531.2	6507.1
50°	7000.9	7090.2	7173.5	7214.6	7172.3	7126.4	7061.2	7039.6
52.5°	7691.5	7788.0	7860.4	7838.8	7773.7	7709.7	7638.4	7609.5
55°	8572.7	8605.5	8605.5	8523.3	8393.0	8285.4	8173.1	8135.8
57.5°	9675.0	9549.4	9356.2	9111.1	8803.4	8535.3	8354.2	8268.5
60°	10970.5	10366.8	9684.6	9014.6	8464.1	8010.1	7741.0	7617.8
62.5°	11833.6	10254.5	8887.9	7812.2	7020.3	6473.4	6101.5	5956.7
65°	11059.8	8552.3	6722.0	5435.1	4572.0	4015.3	3647.2	3512.0
67.5°	8100.7	5359.1	3579.6	2565.4	1879.8	1499.5	1348.5	1285.7
70°	3636.2	1887.0	1156.6	903.1	778.7	714.7	686.9	677.3
72.5°	1096.2	793.2	668.8	603.7	554.2	522.8	499.7	497.4
75°	661.6	550.5	488.9	450.3	418.9	393.5	381.5	377.8
77.5°	462.4	404.4	375.4	347.7	323.6	304.3	293.3	284.9
80°	324.7	297.0	283.8	268.1	252.3	234.2	218.5	211.3
82.5°	217.3	211.3	211.3	201.6	188.4	171.4	140.0	132.8
85°	140.0	138.9	141.3	137.6	128.0	109.9	90.5	85.7
87.5°	65.1	66.5	73.7	72.5	70.0	57.9	45.9	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)