

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: P269208

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269208
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-04-LED-E1-5NQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23606.6 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 258
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

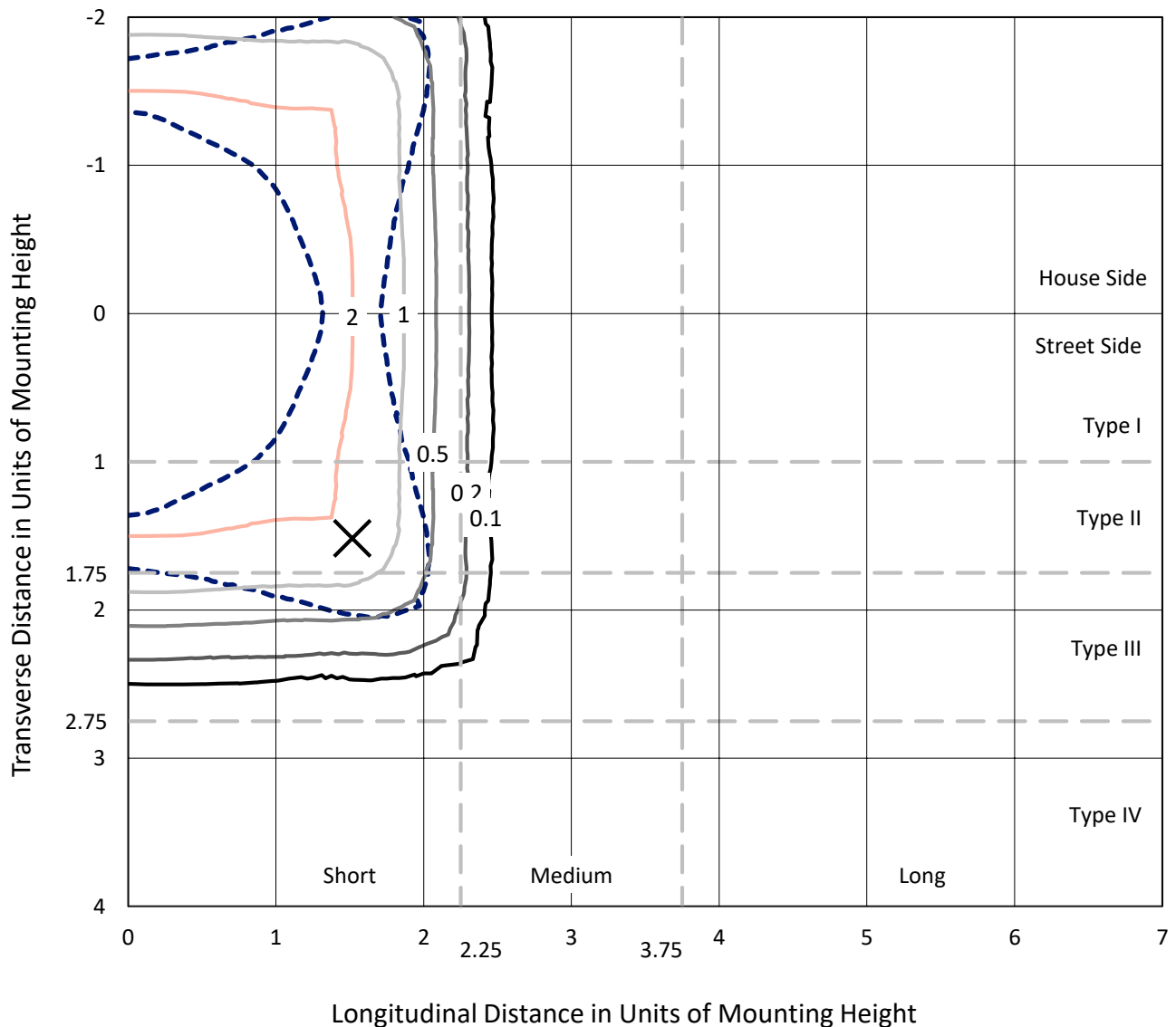


REPORT NUMBER: P269208

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

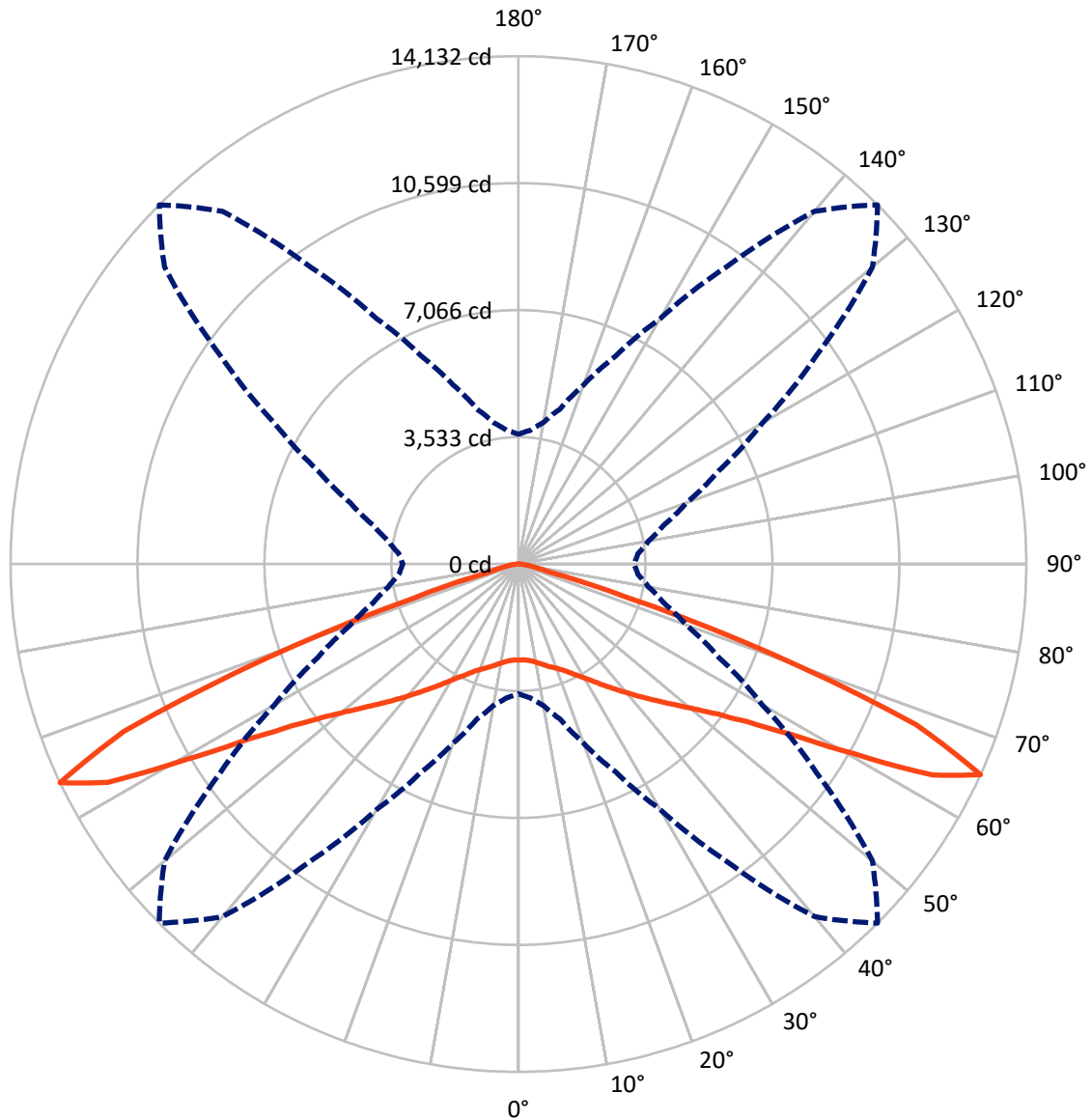


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P269208

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269208

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11803.3	0.0	11803.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11803.3	0.0	11803.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	23606.6	0.0	23606.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.1
10°-20°	835.0	3.5
20°-30°	1561.3	6.6
30°-40°	2640.5	11.2
40°-50°	4317.5	18.3
50°-60°	6865.5	29.1
60°-70°	6206.0	26.3
70°-80°	785.4	3.3
80°-90°	135.1	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°	23606.6	100.0
0°-180°	23606.6	100.0



REPORT NUMBER: P269208

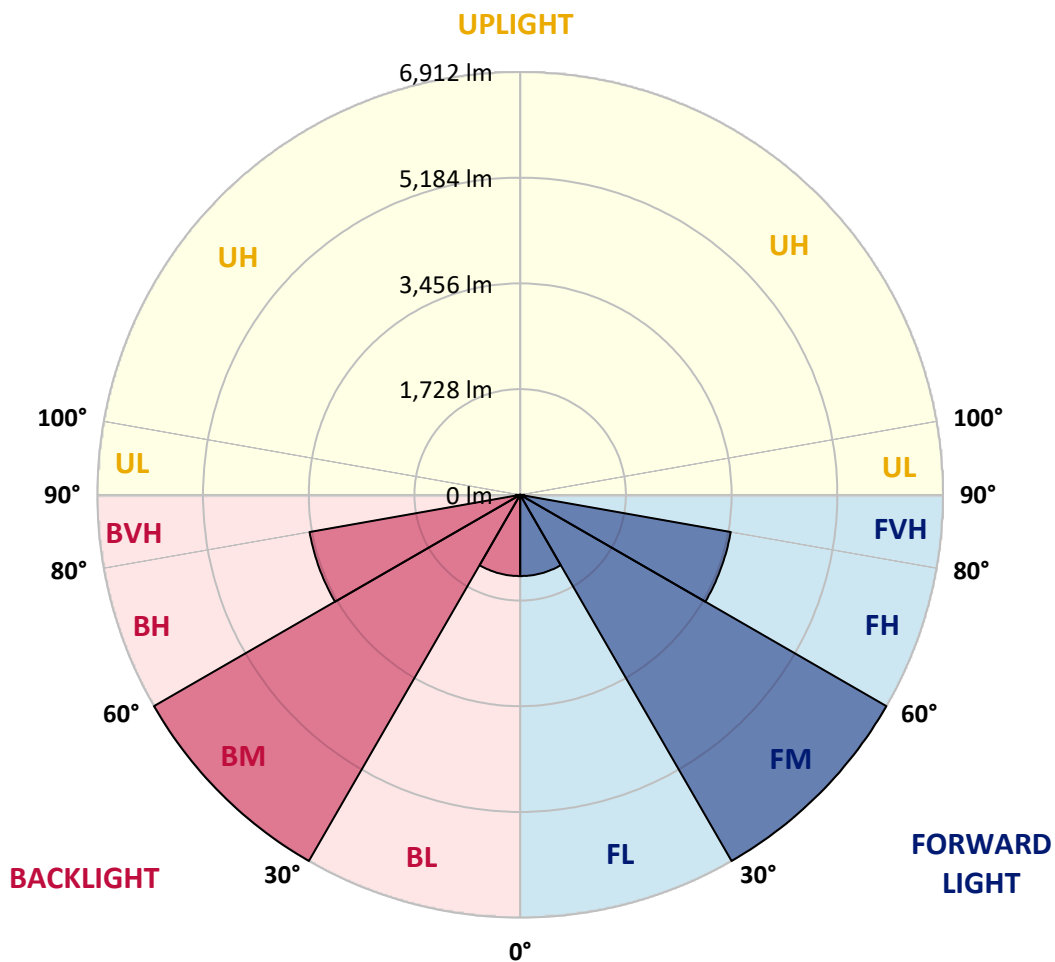
CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.3	5.6			
FM	(30°-60°)	6911.8	29.3			
FH	(60°-80°)	3495.7	14.8			G2/5000
FVH	(80°-90°)	67.6	0.3			G1/100
BL	(0°-30°)	1328.3	5.6	B3/2500		
BM	(30°-60°)	6911.8	29.3	B4/8500		
BH	(60°-80°)	3495.7	14.8	B4/5000		G2/5000
BVH	(80°-90°)	67.6	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





REPORT NUMBER: P269208

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1
2.5°	2673.3	2675.5	2677.8	2675.5	2677.8	2674.4	2672.2	2675.5	2672.2	2668.9	2671.1
5°	2696.5	2697.6	2697.6	2694.3	2697.6	2695.5	2692.1	2696.5	2693.2	2689.9	2692.1
7.5°	2735.2	2739.7	2736.3	2733.1	2735.2	2733.1	2730.8	2731.9	2730.8	2727.4	2728.6
10°	2787.3	2790.6	2788.2	2787.3	2789.3	2788.2	2786.1	2784.9	2786.1	2782.8	2782.8
12.5°	2850.2	2849.2	2847.9	2849.2	2852.4	2852.4	2851.3	2852.4	2854.6	2855.7	2853.6
15°	2912.1	2914.3	2914.3	2914.3	2921.0	2926.5	2929.8	2932.0	2936.4	2937.5	2933.1
17.5°	2989.5	2989.5	2988.4	2989.5	2996.1	3005.0	3008.3	3012.7	3017.1	3020.6	3014.9
20°	3075.7	3078.0	3078.0	3080.2	3089.0	3099.0	3099.0	3101.2	3099.0	3101.2	3097.9
22.5°	3180.8	3187.4	3187.4	3188.5	3197.3	3209.6	3206.2	3209.6	3204.0	3208.4	3204.0
25°	3317.9	3327.9	3325.6	3325.6	3332.3	3340.0	3341.1	3347.8	3346.6	3352.1	3348.8
27.5°	3472.7	3488.1	3492.5	3491.4	3495.8	3503.6	3505.8	3513.5	3509.0	3513.5	3511.4
30°	3658.3	3665.1	3673.9	3677.2	3682.7	3690.4	3690.4	3691.6	3686.0	3692.7	3695.9
32.5°	3850.8	3862.9	3871.8	3891.6	3901.6	3907.2	3906.0	3908.3	3902.7	3911.6	3918.1
35°	4105.1	4113.9	4128.3	4143.7	4156.9	4155.9	4152.5	4153.8	4153.8	4161.4	4168.0
37.5°	4411.2	4413.6	4432.2	4454.4	4461.1	4454.4	4434.6	4430.1	4420.1	4430.1	4441.1
40°	4735.2	4743.1	4780.6	4795.0	4798.2	4786.1	4757.3	4740.7	4718.6	4730.8	4746.3
42.5°	5074.6	5090.2	5124.4	5149.9	5160.9	5153.1	5113.3	5087.9	5059.2	5065.8	5081.4
45°	5450.6	5469.3	5518.0	5542.4	5563.4	5551.2	5512.4	5473.7	5428.5	5431.7	5456.0
47.5°	5870.7	5889.5	5952.4	5993.4	6004.5	6002.2	5959.1	5906.0	5844.2	5841.9	5863.0
50°	6341.7	6360.4	6439.0	6501.9	6534.0	6530.7	6479.8	6404.6	6329.5	6330.5	6357.1
52.5°	6801.5	6824.9	6906.6	7015.0	7077.9	7123.3	7092.4	7021.6	6929.9	6932.0	6956.4
55°	7232.8	7271.4	7365.5	7512.4	7629.7	7756.9	7793.2	7791.1	7735.8	7751.3	7775.5
57.5°	7441.6	7499.2	7644.0	7876.2	8115.0	8373.7	8592.6	8756.3	8825.8	8930.9	8906.6
60°	7045.9	7137.7	7351.0	7692.6	8164.8	8704.2	9282.5	9847.5	10329.5	10693.2	10484.3
62.5°	5768.9	5888.4	6147.0	6584.8	7299.1	8162.5	9269.3	10604.9	12059.7	12937.6	12310.7
65°	3609.7	3733.5	3996.6	4465.5	5301.3	6374.8	7876.2	10089.7	12808.3	14131.5	12855.7
67.5°	1407.5	1474.8	1617.5	1917.2	2545.1	3500.2	5007.2	7519.2	10770.6	11930.4	10570.5
70°	705.3	711.9	738.5	793.8	928.7	1206.2	1835.2	3486.0	6176.9	7460.6	5954.7
72.5°	509.7	510.7	524.0	548.3	591.4	653.3	772.8	1066.8	2008.9	3070.1	1882.8
75°	390.3	394.6	402.4	415.6	438.9	469.9	513.0	614.7	761.8	883.4	743.0
77.5°	300.8	309.6	315.0	327.3	341.6	362.6	374.9	413.5	481.0	506.4	498.6
80°	228.9	236.7	248.8	258.7	268.7	278.7	274.3	291.9	327.3	348.3	337.3
82.5°	146.0	154.8	190.1	199.1	203.5	210.1	202.3	203.5	218.8	232.2	218.8
85°	94.0	99.5	120.6	131.5	132.7	137.1	133.8	126.0	126.0	115.1	129.4
87.5°	43.1	44.2	54.2	64.0	66.4	59.6	58.6	56.4	45.4	43.1	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269208

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1	2671.1
2.5°	2670.0	2672.2	2673.3	2676.6	2677.8	2677.8	2678.8	2681.0
5°	2691.1	2694.3	2695.5	2699.9	2700.9	2699.9	2702.0	2703.2
7.5°	2728.6	2734.1	2736.3	2740.8	2737.4	2741.8	2743.0	2743.0
10°	2783.8	2789.3	2790.6	2794.9	2792.7	2794.9	2794.9	2792.7
12.5°	2856.8	2858.0	2854.6	2858.0	2853.6	2855.7	2852.4	2850.2
15°	2937.5	2934.3	2926.5	2926.5	2919.9	2921.0	2919.9	2918.8
17.5°	3016.0	3009.4	3003.9	3001.6	2996.1	2994.9	2991.7	2991.7
20°	3102.2	3099.0	3095.6	3091.2	3085.7	3080.2	3079.1	3081.2
22.5°	3206.2	3205.2	3205.2	3202.8	3195.1	3189.6	3186.3	3186.3
25°	3345.5	3335.5	3335.5	3334.5	3331.2	3327.9	3321.2	3324.4
27.5°	3502.5	3497.0	3501.5	3500.2	3497.0	3497.0	3492.5	3492.5
30°	3695.9	3693.8	3700.4	3694.9	3683.8	3682.7	3678.3	3672.8
32.5°	3919.3	3917.1	3927.0	3920.5	3902.7	3892.7	3883.9	3879.5
35°	4168.0	4169.2	4181.3	4176.8	4156.9	4150.3	4134.9	4132.7
37.5°	4440.1	4457.7	4478.7	4483.1	4466.6	4462.2	4445.5	4436.6
40°	4759.6	4782.8	4814.8	4822.6	4804.9	4801.6	4778.4	4766.1
42.5°	5100.0	5139.9	5179.6	5186.4	5168.6	5150.9	5128.9	5120.0
45°	5480.4	5527.9	5579.9	5593.1	5566.6	5545.6	5516.9	5516.9
47.5°	5907.2	5966.8	6025.4	6061.9	6037.6	6015.5	5981.3	5959.1
50°	6411.4	6493.0	6569.3	6606.9	6568.2	6526.2	6466.5	6446.6
52.5°	7043.7	7132.2	7198.5	7178.5	7118.9	7060.3	6995.0	6968.5
55°	7850.7	7880.7	7880.7	7805.5	7686.1	7587.7	7484.8	7450.5
57.5°	8860.2	8745.2	8568.4	8343.8	8062.0	7816.5	7650.7	7572.2
60°	10046.5	9493.6	8869.1	8255.5	7751.3	7335.6	7089.1	6976.2
62.5°	10837.0	9390.8	8139.4	7154.2	6429.0	5928.2	5587.6	5455.0
65°	10128.3	7832.1	6155.9	4977.4	4186.9	3677.2	3340.0	3216.1
67.5°	7418.6	4907.7	3278.1	2349.3	1721.4	1373.1	1234.9	1177.5
70°	3330.0	1728.0	1059.1	827.0	713.2	654.5	629.1	620.2
72.5°	1003.9	726.4	612.6	552.7	507.5	478.7	457.6	455.5
75°	605.8	504.2	447.7	412.4	383.7	360.4	349.4	346.0
77.5°	423.5	370.5	343.8	318.4	296.4	278.7	268.7	260.9
80°	297.3	271.9	259.8	245.4	231.0	214.4	200.1	193.4
82.5°	199.1	193.4	193.4	184.6	172.5	157.1	128.3	121.6
85°	128.3	127.1	129.4	126.0	117.1	100.6	83.0	78.5
87.5°	59.6	60.8	67.5	66.4	64.0	53.1	42.0	39.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)