

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: P193446

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193446
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44979 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 511
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

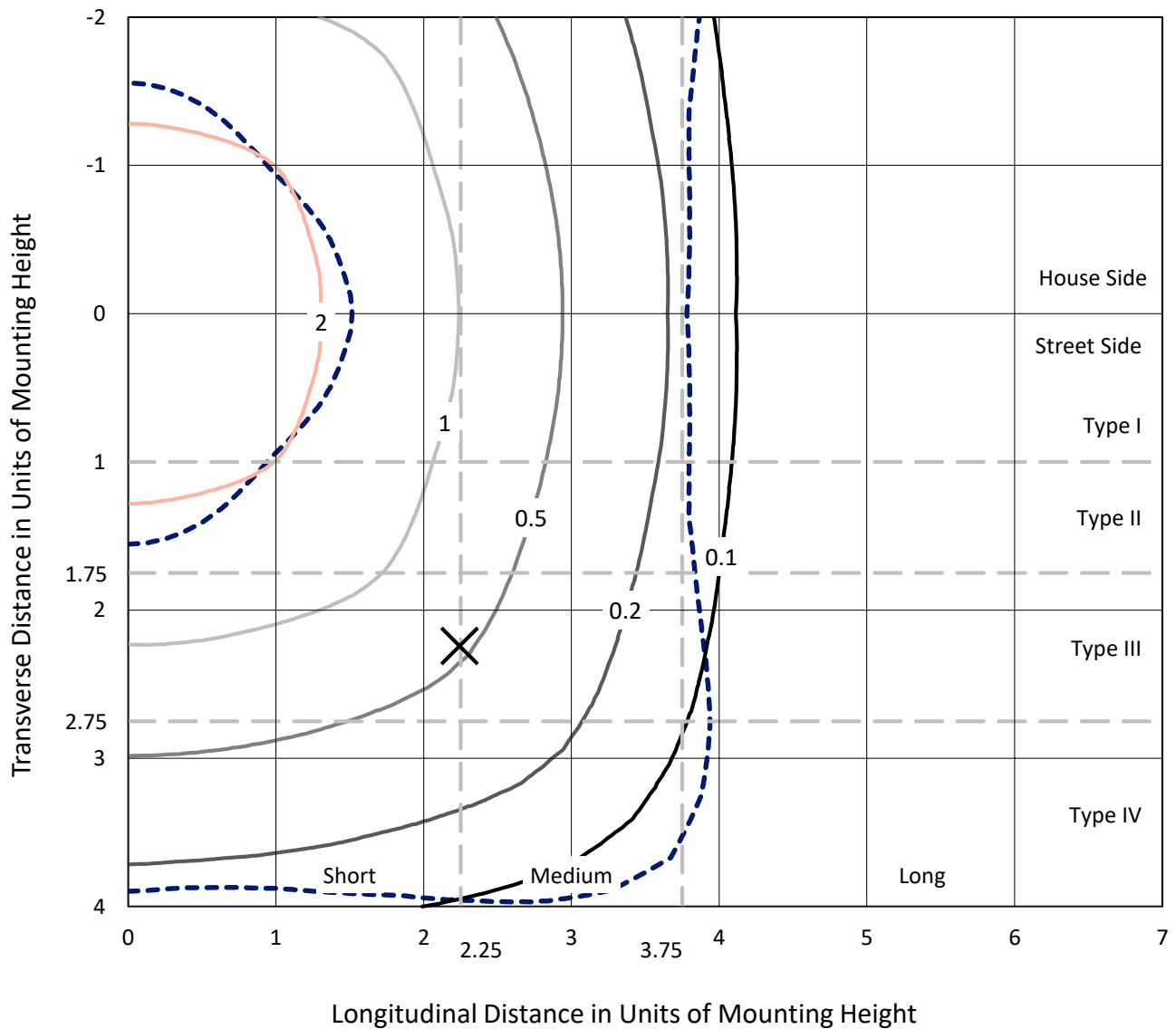


REPORT NUMBER: P193446

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

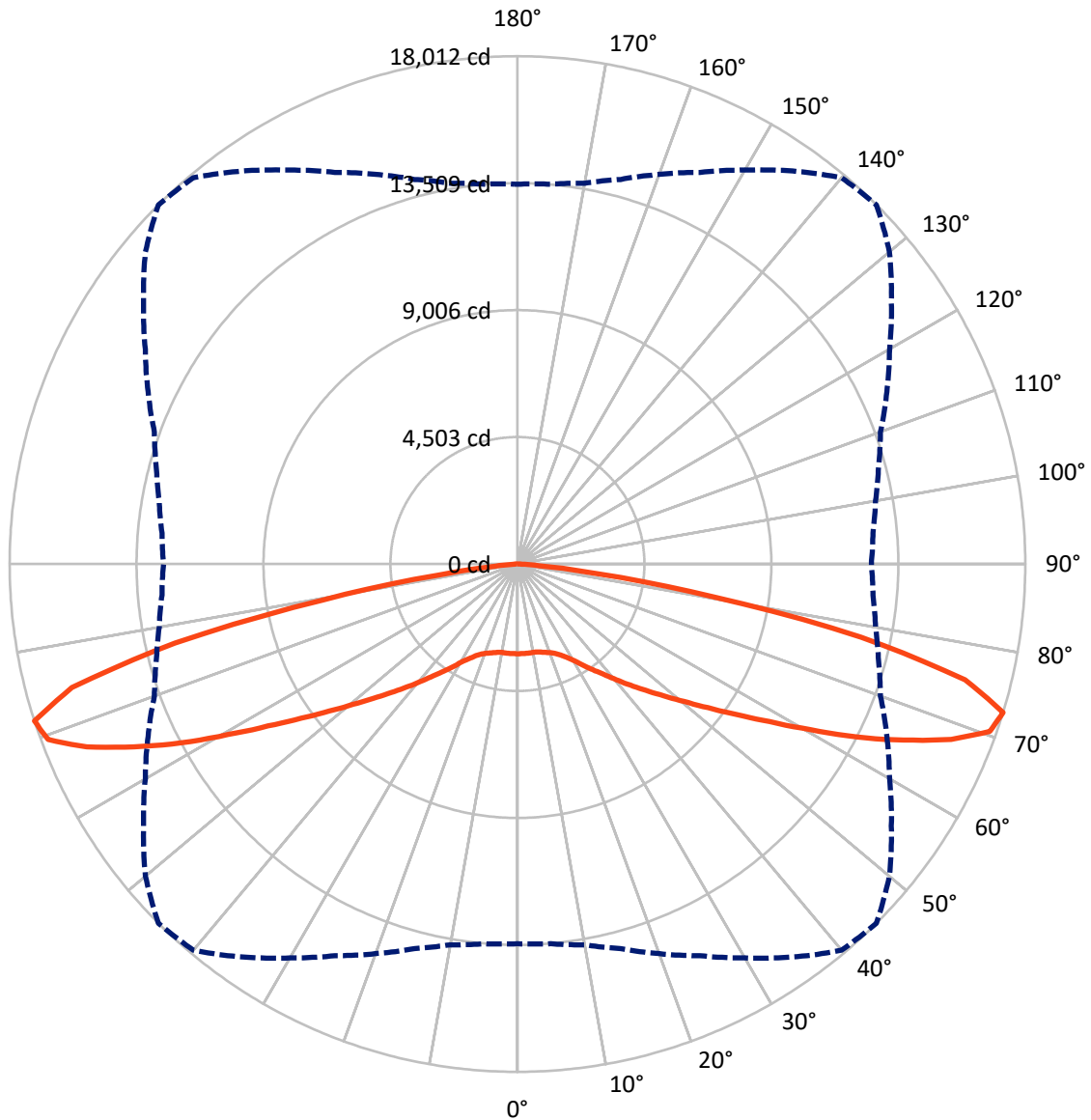


Based on 30 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P193446

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P193446

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22489.5	0.0	22489.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22489.5	0.0	22489.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44979.0	0.0	44979.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	0.7
10°-20°	923.7	2.1
20°-30°	1688.0	3.8
30°-40°	2910.5	6.5
40°-50°	4975.5	11.1
50°-60°	8064.6	17.9
60°-70°	13378.8	29.7
70°-80°	11783.6	26.2
80°-90°	950.1	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°	44979.0	100.0
0°-180°	44979.0	100.0



REPORT NUMBER: P193446

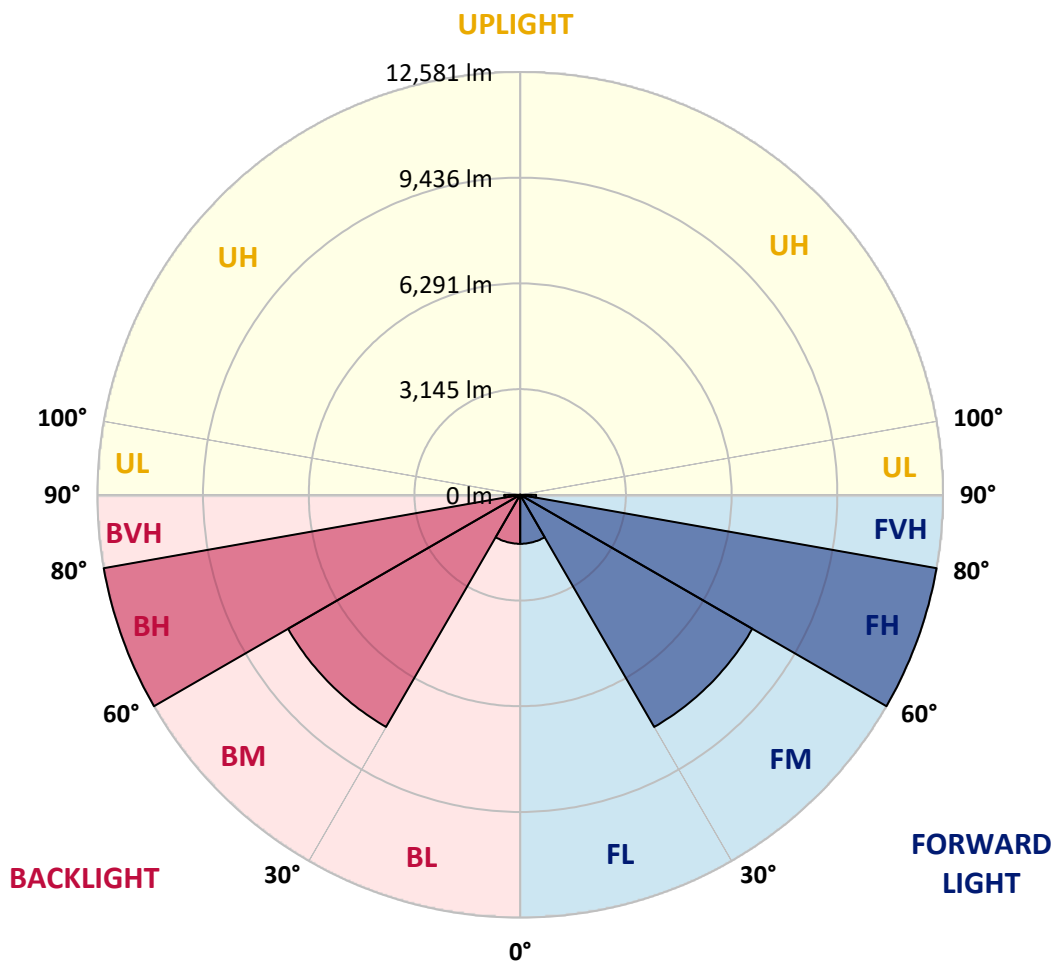
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.0	3.2			
FM	(30°-60°)	7975.3	17.7			
FH	(60°-80°)	12581.2	28.0			G5
FVH	(80°-90°)	475.0	1.1			G3/500
BL	(0°-30°)	1458.0	3.2	B3/2500		
BM	(30°-60°)	7975.3	17.7	B4/8500		
BH	(60°-80°)	12581.2	28.0	B5		G5
BVH	(80°-90°)	475.0	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-G5

Type V Short





REPORT NUMBER: P193446

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2
2.5°	3185.2	3187.3	3189.3	3187.3	3187.3	3185.2	3183.1	3185.2	3183.1	3179.0	3181.1
5°	3195.5	3199.7	3199.7	3195.5	3197.6	3195.5	3191.4	3193.5	3189.3	3183.1	3183.1
7.5°	3207.9	3210.0	3210.0	3205.8	3207.9	3203.8	3199.7	3197.6	3193.5	3185.2	3179.0
10°	3226.5	3228.5	3226.5	3222.3	3222.3	3216.2	3205.8	3201.7	3193.5	3181.1	3174.9
12.5°	3247.1	3249.2	3247.1	3243.0	3240.9	3230.6	3222.3	3216.2	3210.0	3199.7	3189.3
15°	3276.0	3280.1	3276.0	3267.7	3261.5	3253.3	3249.2	3251.2	3253.3	3245.0	3234.7
17.5°	3329.6	3331.7	3325.5	3306.9	3298.7	3290.4	3290.4	3294.5	3300.7	3296.6	3286.3
20°	3428.6	3422.5	3408.0	3385.3	3375.0	3360.6	3358.5	3360.6	3360.6	3358.5	3350.2
22.5°	3552.4	3548.3	3529.7	3500.8	3486.4	3478.2	3465.8	3455.5	3453.4	3447.2	3439.0
25°	3701.0	3698.9	3676.2	3651.4	3641.1	3630.8	3620.5	3606.1	3593.7	3579.2	3571.0
27.5°	3890.7	3882.5	3849.5	3837.1	3822.7	3816.5	3802.0	3785.5	3775.2	3756.7	3746.3
30°	4099.1	4099.1	4072.3	4068.2	4068.2	4053.7	4037.2	4008.3	3989.8	3971.2	3965.0
32.5°	4307.5	4309.5	4282.7	4291.0	4297.1	4307.5	4311.6	4301.3	4288.9	4286.8	4274.5
35°	4608.7	4600.4	4573.6	4579.8	4577.7	4575.6	4575.6	4598.3	4602.5	4606.6	4581.8
37.5°	4982.1	4982.1	4955.2	4955.2	4942.9	4930.5	4914.0	4928.4	4951.1	4957.3	4940.8
40°	5409.1	5423.5	5390.5	5388.5	5392.6	5353.4	5334.8	5357.5	5372.0	5396.7	5378.1
42.5°	5912.4	5902.1	5869.1	5865.0	5842.3	5829.9	5813.4	5832.0	5854.7	5871.2	5877.4
45°	6395.2	6386.9	6349.8	6349.8	6327.1	6316.8	6325.0	6356.0	6366.3	6389.0	6411.7
47.5°	6871.7	6861.4	6836.7	6847.0	6849.0	6867.6	6894.4	6923.3	6952.2	6983.1	6993.4
50°	7358.6	7360.6	7333.8	7358.6	7389.5	7441.1	7513.3	7560.8	7620.6	7659.8	7672.2
52.5°	7802.1	7810.4	7839.3	7897.0	7958.9	8060.0	8183.8	8299.3	8398.3	8464.3	8460.2
55°	8334.4	8346.7	8416.9	8515.9	8617.0	8769.6	8953.3	9157.5	9322.5	9417.4	9357.6
57.5°	9015.1	9042.0	9120.4	9254.4	9405.0	9603.1	9854.8	10162.1	10418.0	10545.9	10448.9
60°	9949.7	9966.2	10061.1	10209.6	10391.1	10636.6	10972.9	11385.5	11746.5	11915.7	11804.3
62.5°	11181.2	11212.2	11288.5	11439.1	11624.8	11903.3	12313.8	12829.6	13279.3	13514.5	13262.8
65°	12652.1	12751.2	12815.1	12967.8	13141.1	13436.1	13865.2	14418.0	14900.8	15055.5	14764.6
67.5°	14108.6	14195.2	14306.6	14482.0	14657.3	14989.5	15387.6	15924.0	16454.2	16594.5	16142.7
70°	14746.0	14795.6	14968.8	15208.1	15544.4	15936.4	16396.4	16998.8	17654.8	17770.3	17196.8
72.5°	13469.1	13518.6	13712.5	14118.9	14704.8	15327.8	16130.3	17015.3	17881.7	18011.7	17221.6
75°	10186.9	10106.4	10393.2	10931.6	11721.7	12590.3	13712.5	14981.2	16233.4	16396.4	15453.6
77.5°	5264.7	5254.4	5471.0	6139.4	7082.1	8070.3	9306.0	10739.8	11965.2	12460.3	11692.9
80°	1483.3	1499.8	1602.9	1935.1	2485.9	3199.7	4165.1	5508.1	6510.7	7022.3	6593.2
82.5°	581.8	627.1	666.3	728.2	800.4	905.6	1208.9	1798.9	2413.7	2884.0	2362.1
85°	208.4	222.8	315.6	373.4	379.6	400.2	455.9	532.2	641.6	765.4	629.2
87.5°	78.4	86.6	101.1	167.1	165.0	150.6	183.6	191.9	144.4	132.0	163.0
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: P193446

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2	3185.2
2.5°	3177.0	3179.0	3179.0	3181.1	3183.1	3183.1	3187.3	3187.3
5°	3179.0	3179.0	3174.9	3177.0	3174.9	3174.9	3177.0	3177.0
7.5°	3174.9	3172.8	3168.7	3166.6	3162.5	3162.5	3162.5	3162.5
10°	3168.7	3166.6	3162.5	3160.5	3158.4	3158.4	3158.4	3158.4
12.5°	3185.2	3179.0	3174.9	3172.8	3172.8	3172.8	3172.8	3172.8
15°	3228.5	3214.1	3203.8	3203.8	3205.8	3210.0	3210.0	3214.1
17.5°	3282.2	3265.7	3255.4	3247.1	3251.2	3257.4	3261.5	3265.7
20°	3346.1	3337.9	3323.4	3315.2	3315.2	3323.4	3327.6	3329.6
22.5°	3434.8	3428.6	3422.5	3412.1	3412.1	3416.3	3424.5	3424.5
25°	3566.9	3562.7	3558.6	3550.4	3548.3	3548.3	3552.4	3556.5
27.5°	3731.9	3734.0	3729.8	3727.8	3721.6	3719.5	3725.7	3723.6
30°	3952.6	3962.9	3973.3	3965.0	3954.7	3948.5	3942.3	3934.1
32.5°	4251.8	4239.4	4231.1	4216.7	4198.1	4181.6	4169.2	4154.8
35°	4534.4	4513.8	4505.5	4517.9	4515.8	4505.5	4491.1	4478.7
37.5°	4881.0	4876.8	4881.0	4903.7	4899.5	4909.8	4881.0	4878.9
40°	5318.3	5322.4	5351.3	5378.1	5392.6	5407.0	5390.5	5374.0
42.5°	5825.8	5823.7	5834.1	5871.2	5895.9	5912.4	5877.4	5873.3
45°	6362.2	6347.7	6356.0	6386.9	6411.7	6430.2	6391.1	6391.1
47.5°	6952.2	6927.4	6900.6	6935.7	6950.1	6962.5	6931.5	6921.2
50°	7610.3	7558.7	7500.9	7515.4	7515.4	7511.2	7472.0	7470.0
52.5°	8365.3	8270.4	8165.2	8126.0	8103.3	8078.6	8010.5	7977.5
55°	9233.8	9091.5	8926.4	8825.3	8771.7	8703.6	8590.2	8559.2
57.5°	10248.8	10026.0	9741.3	9617.5	9497.9	9386.5	9260.6	9225.6
60°	11451.5	11123.5	10746.0	10517.0	10387.0	10279.7	10149.8	10143.6
62.5°	12792.4	12274.6	11847.6	11641.3	11546.4	11451.5	11327.7	11344.2
65°	14156.0	13615.5	13215.3	13048.2	12959.5	12881.1	12757.4	12775.9
67.5°	15501.1	15003.9	14564.5	14393.3	14294.3	14195.2	14083.8	14102.4
70°	16466.6	15849.7	15354.6	14975.0	14737.8	14469.6	14296.3	14253.0
72.5°	16190.1	15239.1	14453.1	13700.1	13258.7	12899.7	12656.3	12551.1
75°	14011.6	12712.0	11701.1	10776.9	10257.0	9834.1	9526.8	9334.9
77.5°	10405.6	8945.0	7750.5	6686.1	5844.4	5279.1	4881.0	4623.1
80°	5695.8	4332.2	3166.6	2225.9	1635.9	1359.5	1200.6	1124.3
82.5°	1774.1	1144.9	843.8	728.2	676.7	647.8	600.3	524.0
85°	565.3	495.1	460.0	439.4	418.8	365.1	251.7	229.0
87.5°	218.7	224.9	222.8	210.4	214.5	154.7	123.8	109.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)