

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: P190862

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190862
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 27794.6 lumens
Efficiency: N/A
Efficacy: 107.7 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

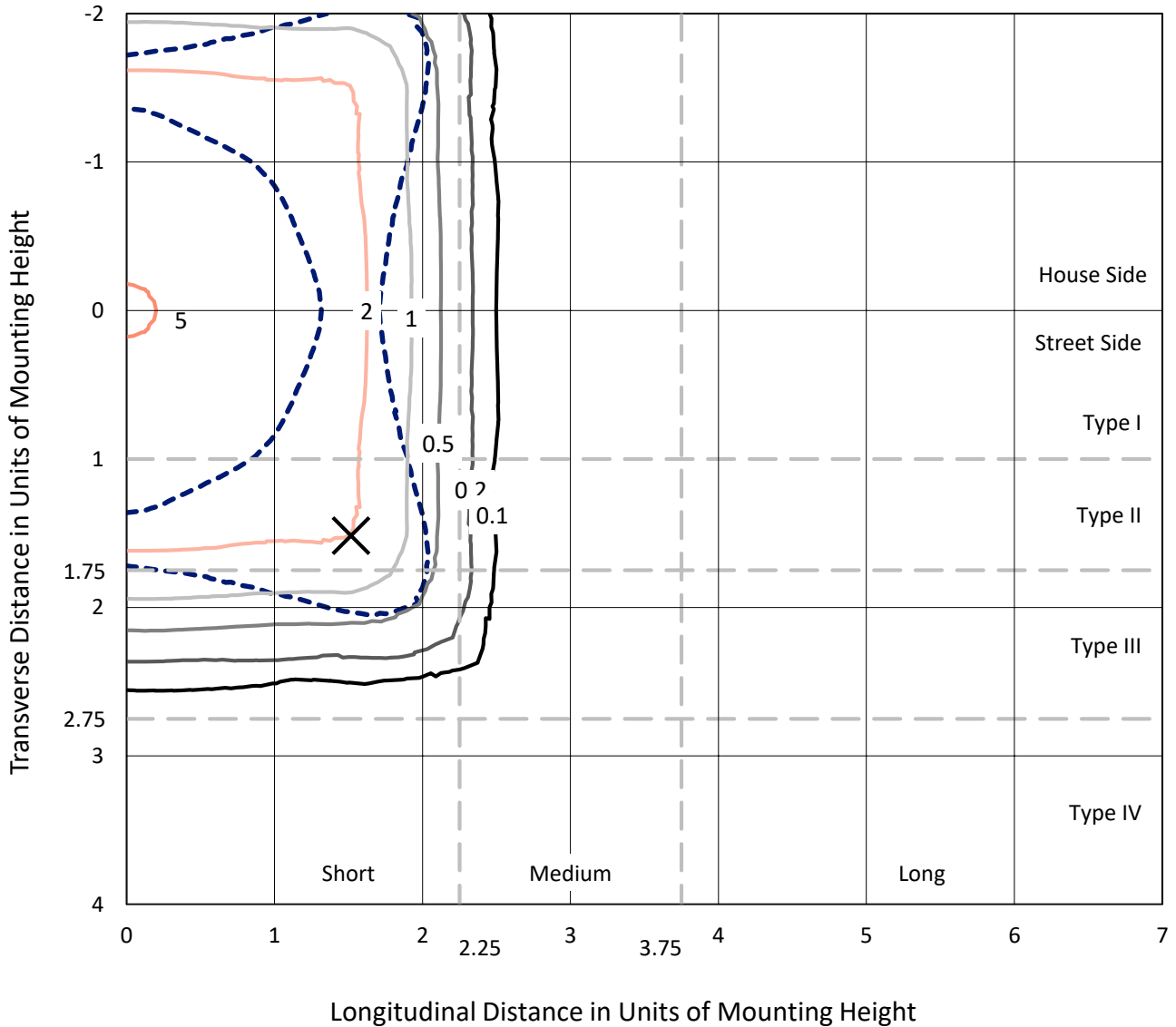
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190862
 CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-1200

Iso-Footcandle Lines of Horizontal Illumination

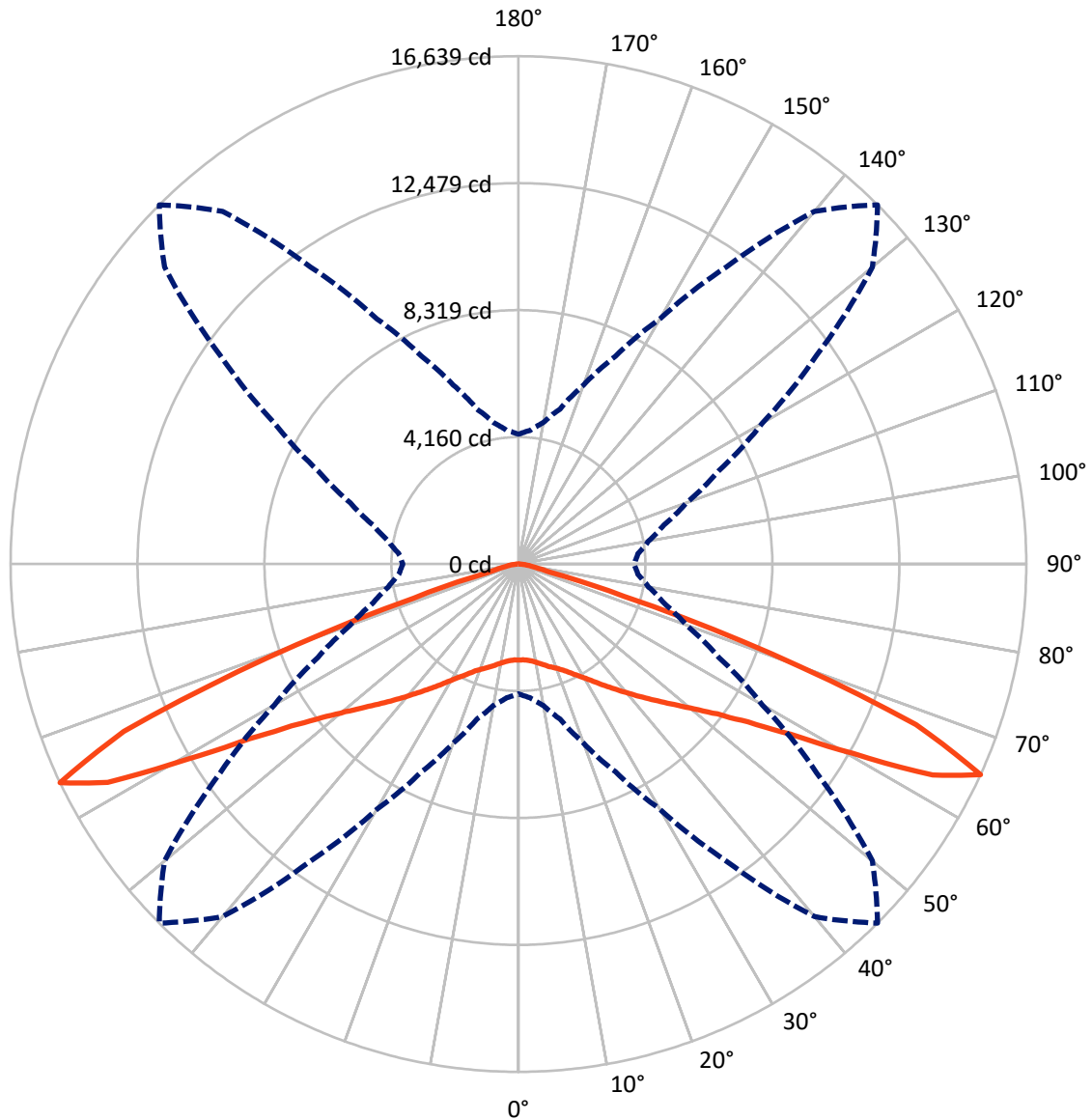
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P190862
CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190862

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13897.3	0.0	13897.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13897.3	0.0	13897.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	27794.6	0.0	27794.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	1.1
10°-20°	983.1	3.5
20°-30°	1838.2	6.6
30°-40°	3109.0	11.2
40°-50°	5083.5	18.3
50°-60°	8083.5	29.1
60°-70°	7307.0	26.3
70°-80°	924.7	3.3
80°-90°	159.1	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°	27794.6	100.0
0°-180°	27794.6	100.0

Coefficient of Utilization



REPORT NUMBER: P190862

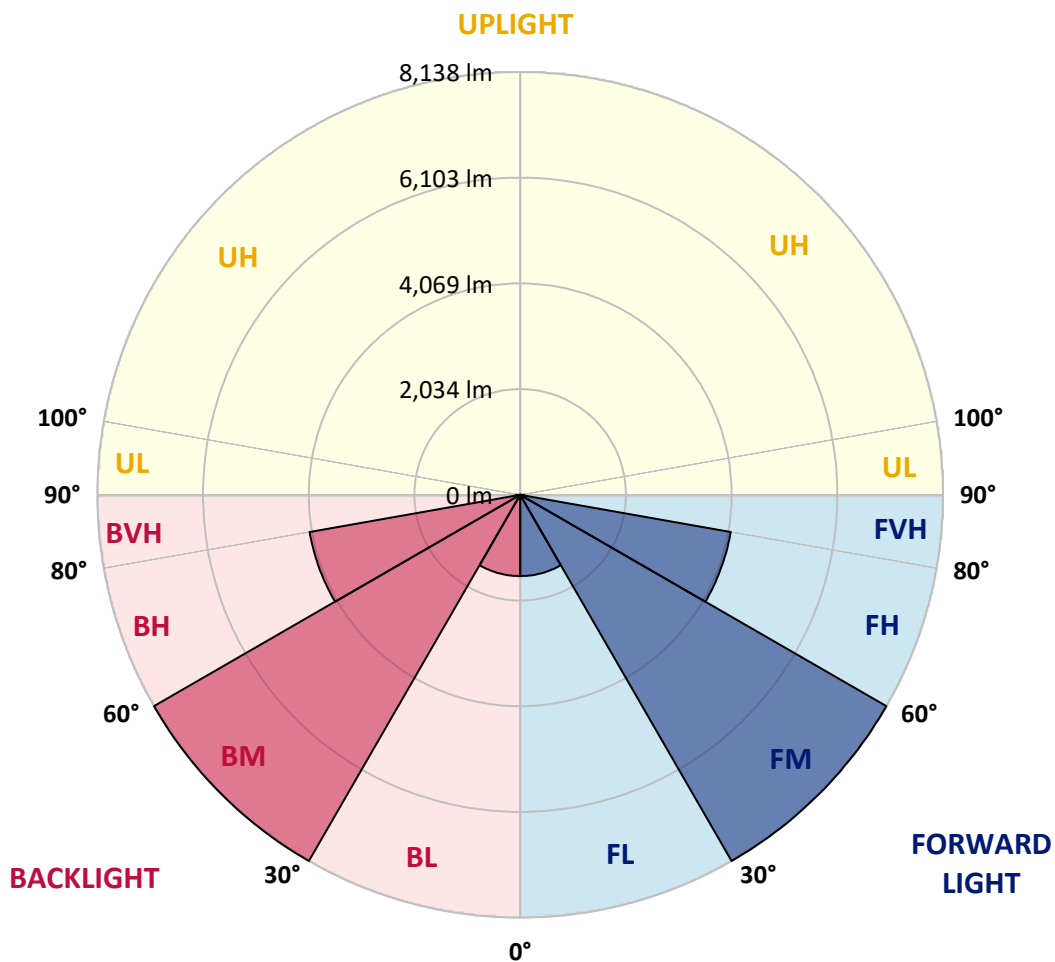
CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1563.9	5.6			
FM	(30°-60°)	8138.0	29.3			
FH	(60°-80°)	4115.9	14.8			G2/5000
FVH	(80°-90°)	79.5	0.3			G1/100
BL	(0°-30°)	1563.9	5.6	B3/2500		
BM	(30°-60°)	8138.0	29.3	B4/8500		
BH	(60°-80°)	4115.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	79.5	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: P190862
 CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0
2.5°	3147.6	3150.2	3152.7	3150.2	3152.7	3148.8	3146.3	3150.2	3146.3	3142.4	3145.0
5°	3174.9	3176.3	3176.3	3172.3	3176.3	3173.6	3169.7	3174.9	3171.0	3167.1	3169.7
7.5°	3220.5	3225.7	3221.8	3217.9	3220.5	3217.9	3215.2	3216.6	3215.2	3211.3	3212.7
10°	3281.6	3285.5	3283.0	3281.6	3284.3	3283.0	3280.4	3279.1	3280.4	3276.4	3276.4
12.5°	3355.9	3354.6	3353.2	3354.6	3358.4	3358.4	3357.1	3358.4	3361.1	3362.3	3359.8
15°	3428.7	3431.4	3431.4	3431.4	3439.2	3445.7	3449.6	3452.2	3457.4	3458.7	3453.5
17.5°	3519.9	3519.9	3518.5	3519.9	3527.6	3538.1	3542.0	3547.2	3552.4	3556.3	3549.8
20°	3621.5	3624.0	3624.0	3626.6	3637.0	3648.8	3648.8	3651.3	3648.8	3651.3	3647.4
22.5°	3745.0	3752.9	3752.9	3754.2	3764.6	3778.9	3775.0	3778.9	3772.4	3777.7	3772.4
25°	3906.4	3918.2	3915.5	3915.5	3923.4	3932.5	3933.9	3941.6	3940.3	3946.9	3943.0
27.5°	4088.7	4106.9	4112.2	4110.8	4116.0	4125.2	4127.8	4136.9	4131.7	4136.9	4134.3
30°	4307.4	4315.2	4325.6	4329.5	4336.1	4345.2	4345.2	4346.5	4340.0	4347.7	4351.6
32.5°	4533.9	4548.2	4558.7	4582.1	4593.8	4600.3	4599.0	4601.6	4595.1	4605.5	4613.3
35°	4833.3	4843.8	4860.7	4878.9	4894.5	4893.2	4889.3	4890.6	4890.6	4899.7	4907.5
37.5°	5193.9	5196.5	5218.6	5244.7	5252.4	5244.7	5221.2	5216.0	5204.3	5216.0	5229.0
40°	5575.3	5584.4	5628.7	5645.6	5649.5	5635.1	5601.4	5581.8	5555.7	5570.1	5588.3
42.5°	5975.0	5993.2	6033.5	6063.4	6076.4	6067.3	6020.5	5990.5	5956.7	5964.5	5982.7
45°	6417.5	6439.7	6497.0	6525.6	6550.3	6535.9	6490.4	6444.9	6391.5	6395.4	6424.0
47.5°	6912.2	6934.3	7008.5	7056.6	7069.7	7067.1	7016.3	6953.8	6881.0	6878.3	6903.1
50°	7466.7	7488.8	7581.3	7655.5	7693.2	7689.3	7629.5	7540.9	7452.4	7453.7	7484.9
52.5°	8008.3	8035.6	8131.8	8259.5	8333.7	8387.1	8350.6	8267.3	8159.3	8161.8	8190.5
55°	8515.9	8561.5	8672.1	8845.3	8983.2	9132.9	9175.9	9173.3	9108.1	9126.5	9155.0
57.5°	8761.9	8829.6	9000.1	9273.5	9554.7	9859.3	10117.0	10309.7	10391.6	10515.3	10486.7
60°	8295.9	8404.0	8655.2	9057.4	9613.3	10248.5	10929.3	11594.5	12162.1	12590.3	12344.3
62.5°	6792.4	6933.0	7237.6	7753.0	8594.0	9610.6	10913.7	12486.1	14199.3	15232.9	14494.7
65°	4250.2	4395.9	4705.8	5257.7	6241.7	7505.8	9273.5	11879.5	15080.5	16638.7	15136.5
67.5°	1657.1	1736.5	1904.4	2257.2	2996.5	4121.3	5895.6	8853.0	12681.4	14047.0	12445.8
70°	830.5	838.3	869.5	934.7	1093.4	1420.2	2160.9	4104.4	7272.8	8784.1	7011.1
72.5°	600.1	601.4	617.0	645.7	696.4	769.4	909.9	1256.2	2365.3	3614.9	2216.8
75°	459.5	464.7	473.8	489.5	516.8	553.2	604.1	723.7	896.9	1040.0	874.7
77.5°	354.0	364.5	371.0	385.3	402.2	427.0	441.3	486.8	566.2	596.2	587.1
80°	269.4	278.5	292.9	304.6	316.3	328.1	322.8	343.6	385.3	410.0	397.0
82.5°	171.9	182.3	223.9	234.4	239.5	247.3	238.2	239.5	257.8	273.3	257.8
85°	110.7	117.1	141.9	154.9	156.2	161.4	157.5	148.4	148.4	135.3	152.3
87.5°	50.7	52.1	63.8	75.5	78.2	70.3	68.9	66.4	53.4	50.7	54.6
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: P190862

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0	3145.0
2.5°	3143.6	3146.3	3147.6	3151.5	3152.7	3152.7	3154.1	3156.7
5°	3168.4	3172.3	3173.6	3178.8	3180.1	3178.8	3181.4	3182.7
7.5°	3212.7	3219.1	3221.8	3227.0	3223.1	3228.3	3229.6	3229.6
10°	3277.7	3284.3	3285.5	3290.7	3288.2	3290.7	3290.7	3288.2
12.5°	3363.7	3365.0	3361.1	3365.0	3359.8	3362.3	3358.4	3355.9
15°	3458.7	3454.8	3445.7	3445.7	3437.8	3439.2	3437.8	3436.6
17.5°	3551.1	3543.3	3536.8	3534.2	3527.6	3526.4	3522.4	3522.4
20°	3652.7	3648.8	3644.9	3639.7	3633.1	3626.6	3625.3	3627.9
22.5°	3775.0	3773.7	3773.7	3771.1	3762.0	3755.5	3751.6	3751.6
25°	3939.1	3927.3	3927.3	3926.0	3922.1	3918.2	3910.4	3914.3
27.5°	4123.8	4117.4	4122.6	4121.3	4117.4	4117.4	4112.2	4112.2
30°	4351.6	4349.1	4356.8	4350.4	4337.3	4336.1	4330.9	4324.3
32.5°	4614.6	4612.0	4623.7	4616.0	4595.1	4583.4	4573.0	4567.8
35°	4907.5	4908.8	4923.2	4917.9	4894.5	4886.6	4868.4	4865.9
37.5°	5227.7	5248.6	5273.3	5278.5	5259.0	5253.8	5234.2	5223.8
40°	5603.9	5631.2	5669.0	5678.1	5657.3	5653.4	5626.0	5611.7
42.5°	6004.8	6051.8	6098.6	6106.4	6085.5	6064.8	6038.7	6028.2
45°	6452.7	6508.6	6569.8	6585.5	6554.1	6529.5	6495.6	6495.6
47.5°	6955.1	7025.4	7094.4	7137.3	7108.7	7082.7	7042.3	7016.3
50°	7548.8	7645.0	7734.8	7779.1	7733.6	7684.1	7613.8	7590.4
52.5°	8293.3	8397.4	8475.6	8452.1	8381.9	8312.8	8236.0	8204.8
55°	9243.6	9278.7	9278.7	9190.2	9049.6	8933.7	8812.7	8772.3
57.5°	10432.1	10296.6	10088.3	9824.1	9492.2	9203.2	9008.0	8915.5
60°	11828.8	11177.9	10442.5	9720.0	9126.5	8637.0	8346.7	8213.9
62.5°	12759.6	11056.9	9583.3	8423.5	7569.5	6979.9	6578.9	6422.7
65°	11925.2	9221.4	7248.0	5860.4	4929.6	4329.5	3932.5	3786.8
67.5°	8734.6	5778.3	3859.6	2766.2	2026.8	1616.8	1454.0	1386.3
70°	3920.8	2034.6	1247.1	973.6	839.6	770.6	740.7	730.3
72.5°	1182.0	855.2	721.2	650.9	597.5	563.6	538.9	536.3
75°	713.3	593.6	527.2	485.6	451.7	424.3	411.3	407.4
77.5°	498.6	436.1	404.9	374.9	348.8	328.1	316.3	307.2
80°	350.2	320.2	305.9	289.0	272.1	252.6	235.6	227.8
82.5°	234.4	227.8	227.8	217.4	203.1	184.8	151.0	143.2
85°	151.0	149.7	152.3	148.4	138.0	118.5	97.6	92.4
87.5°	70.3	71.6	79.4	78.2	75.5	62.5	49.5	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)