

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: P269158

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17320.2 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

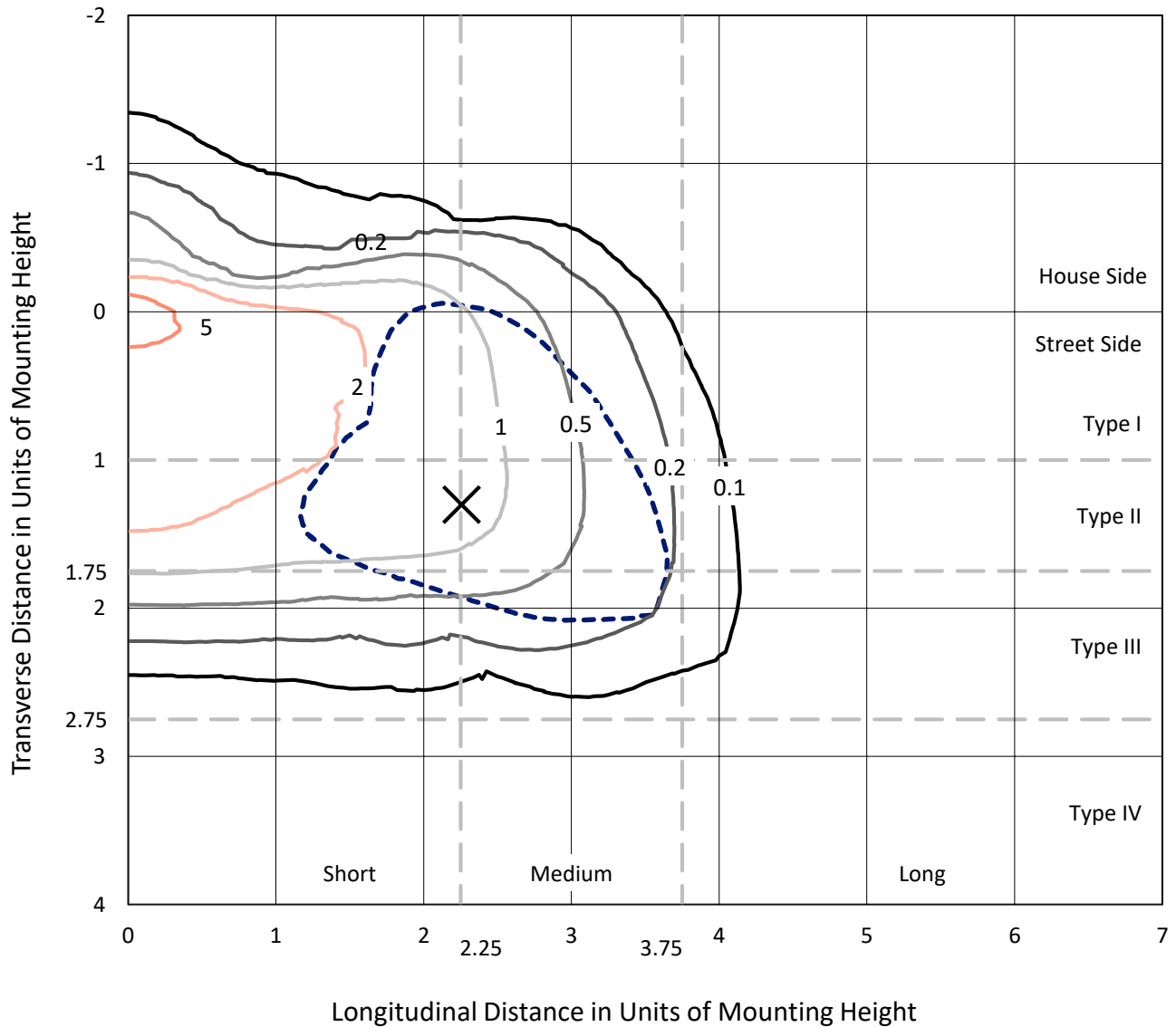


REPORT NUMBER: P269158

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

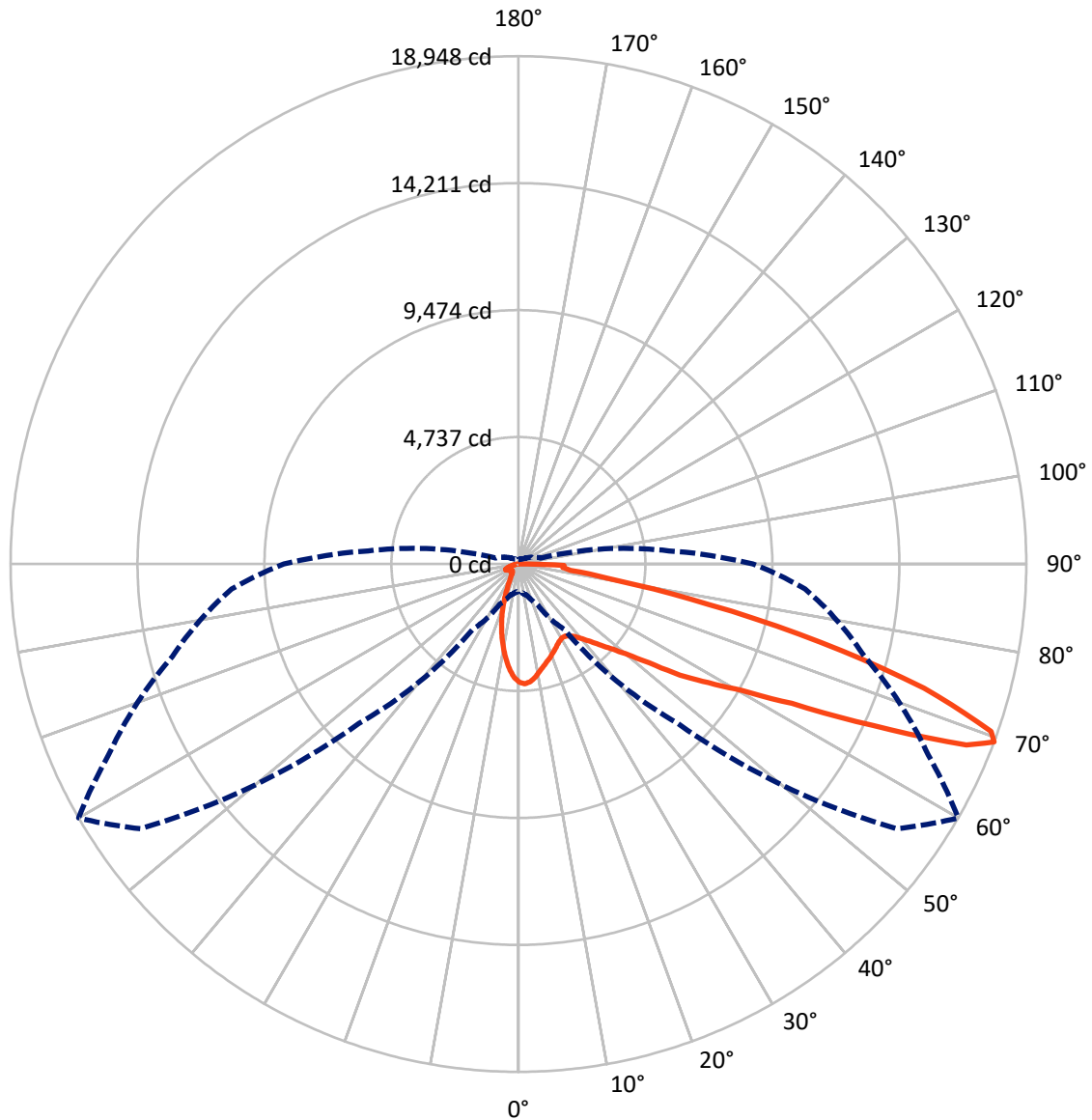


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269158

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269158

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2464.1	0.0	2464.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14856.1	0.0	14856.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	17320.2	0.0	17320.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	2.2
10°-20°	795.1	4.6
20°-30°	1013.1	5.8
30°-40°	1392.7	8.0
40°-50°	2259.8	13.0
50°-60°	3624.1	20.9
60°-70°	4823.4	27.8
70°-80°	2604.3	15.0
80°-90°	434.5	2.5
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°	17320.2	100.0
0°-180°	17320.2	100.0

Coefficient of Utilization



REPORT NUMBER: P269158

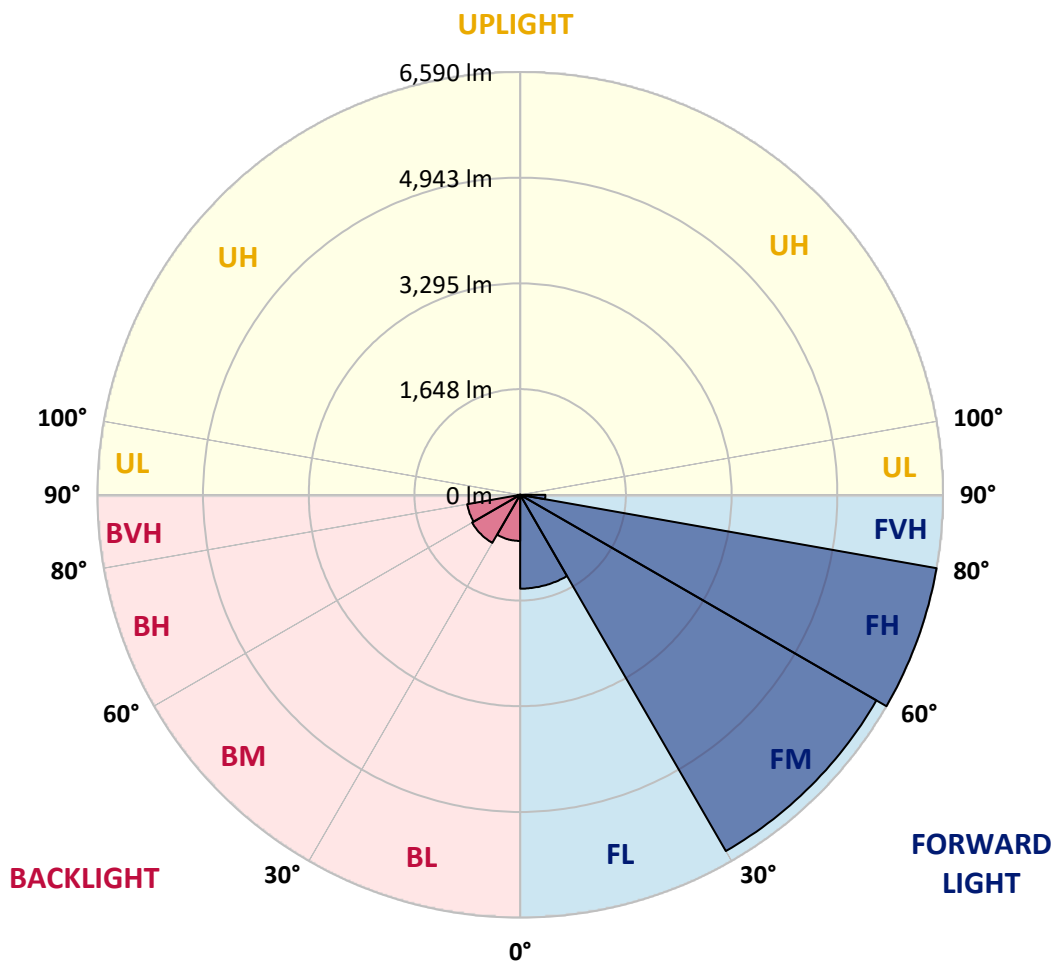
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1462.5	8.4			
FM	(30°-60°)	6410.9	37.0			
FH	(60°-80°)	6590.0	38.0			G3/7500
FVH	(80°-90°)	392.7	2.3			G3/500
BL	(0°-30°)	718.9	4.2	B2/1000		
BM	(30°-60°)	865.7	5.0	B1/1000		
BH	(60°-80°)	837.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	41.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P269158

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5
2.5°	4503.8	4513.9	4509.8	4507.2	4514.7	4502.9	4478.7	4471.1	4459.5	4431.9	4384.9
5°	4334.9	4365.0	4363.2	4385.9	4423.6	4433.6	4422.6	4424.3	4402.6	4368.3	4290.5
7.5°	4042.8	4055.4	4062.0	4111.5	4180.1	4235.1	4282.1	4297.1	4287.2	4257.8	4157.4
10°	3741.6	3751.6	3767.5	3825.3	3912.3	3988.5	4077.0	4128.2	4149.9	4144.9	4032.9
12.5°	3483.1	3493.1	3514.0	3579.2	3683.1	3776.7	3905.7	3969.3	4021.1	4052.1	3931.5
15°	3251.3	3273.1	3293.1	3368.5	3484.7	3607.8	3753.3	3833.6	3913.9	3983.4	3842.1
17.5°	3070.5	3092.3	3104.1	3172.6	3296.5	3447.1	3617.7	3712.3	3812.8	3926.5	3753.3
20°	2966.1	2976.1	2971.1	3009.5	3120.8	3280.6	3483.1	3592.7	3714.0	3873.0	3664.6
22.5°	2936.6	2937.5	2919.1	2915.0	2987.0	3121.6	3339.2	3472.2	3621.1	3837.7	3588.5
25°	3007.9	3005.3	2955.2	2914.1	2921.6	3000.2	3200.3	3355.1	3543.4	3830.4	3529.9
27.5°	3165.9	3173.5	3099.1	3022.1	2945.9	2943.4	3094.8	3258.1	3479.8	3864.6	3504.8
30°	3387.7	3400.3	3320.8	3222.8	3079.7	2961.8	3053.9	3200.3	3440.4	3935.7	3500.7
32.5°	3630.3	3643.7	3583.5	3480.6	3293.1	3075.5	3082.4	3205.3	3438.7	4035.2	3529.1
35°	3888.9	3903.9	3873.0	3785.9	3577.6	3285.6	3191.0	3286.4	3493.1	4187.5	3605.2
37.5°	4177.5	4201.0	4209.3	4126.5	3903.9	3562.6	3369.4	3440.4	3616.0	4399.2	3744.9
40°	4593.4	4625.9	4623.4	4504.6	4277.9	3936.6	3644.6	3663.0	3807.6	4682.1	3968.4
42.5°	5389.8	5396.6	5188.3	4929.7	4689.5	4329.8	3969.3	3954.1	4072.0	5040.1	4297.1
45°	6403.1	6375.5	5911.9	5412.5	5119.6	4781.6	4391.8	4318.1	4407.7	5476.8	4708.7
47.5°	7243.9	7180.3	6594.6	5905.3	5574.7	5272.7	4887.9	4759.0	4808.4	5972.2	5240.9
50°	7535.9	7488.2	7002.9	6315.3	6005.7	5871.9	5498.6	5316.2	5329.6	6562.8	5864.2
52.5°	7473.2	7466.4	7142.7	6585.5	6408.9	6500.9	6363.8	6116.9	5986.3	7218.8	6537.0
55°	7325.0	7339.3	7222.2	6900.1	6869.9	7108.4	7494.1	7311.7	6905.9	7880.7	7232.3
57.5°	6810.5	6847.3	7105.1	7295.8	7612.1	7966.8	8404.5	8352.5	7895.7	8596.1	8058.9
60°	5486.8	5572.2	6263.3	7218.8	8375.9	9485.4	9681.2	9560.8	8916.4	9483.6	9150.7
62.5°	3844.6	3933.1	4754.8	6250.0	8250.5	11200.5	11963.5	11444.0	10382.3	10791.3	10563.9
65°	2058.2	2100.9	2728.4	4336.5	6965.3	11554.4	15299.5	14508.7	12703.2	12403.6	11772.8
67.5°	1135.4	1158.9	1398.9	2189.6	4461.2	10174.8	17424.6	18021.9	15604.0	13477.1	11552.8
69°	1026.7	1048.3	1205.6	1658.4	2985.2	8412.7	17217.0	18948.0	16875.6	13370.9	10739.5
70°	1004.0	1024.1	1165.6	1528.6	2416.4	6934.3	16521.7	18711.3	17178.6	12990.2	10030.0
72.5°	903.7	925.3	1062.5	1373.0	2064.9	3457.1	13087.2	15820.7	15596.5	11263.3	7607.8
75°	842.5	862.6	1095.3	1344.6	1977.1	2187.9	8627.9	11659.9	11465.0	7878.9	4102.2
77.5°	360.6	359.0	507.8	1137.9	2006.4	2118.5	4636.1	7284.0	6645.8	3367.6	1178.0
80°	240.9	236.8	240.9	334.7	1839.9	2130.2	2428.8	3697.2	2792.8	858.4	580.7
82.5°	207.5	204.2	211.7	204.2	646.8	2431.4	2064.9	1966.2	1327.9	487.8	287.7
85°	139.7	133.8	182.4	183.3	305.3	2160.3	2325.9	1660.7	1074.4	289.6	142.2
87.5°	67.0	65.2	106.3	129.6	179.0	877.6	2609.5	1701.7	1083.4	148.1	67.7
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: P269158

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5
2.5°	4370.8	4336.5	4303.1	4262.8	4221.0	4174.2	4150.8	4127.4	4121.5	4114.7	4091.3
5°	4250.3	4201.8	4118.1	4026.1	3928.9	3834.4	3762.6	3717.4	3683.1	3665.4	3634.5
7.5°	4094.7	4023.6	3877.2	3718.2	3555.0	3406.2	3277.2	3196.1	3119.2	3083.2	3042.1
10°	3946.7	3840.3	3612.8	3378.4	3144.2	2919.1	2707.5	2557.7	2424.6	2350.2	2297.5
12.5°	3819.5	3673.8	3358.5	3041.3	2720.0	2399.6	2082.5	1833.1	1624.9	1515.3	1459.1
15°	3695.5	3519.9	3116.6	2714.1	2301.6	1865.8	1449.1	1166.3	994.0	925.3	902.0
17.5°	3583.5	3358.5	2873.9	2384.6	1869.9	1342.8	973.9	818.3	752.2	729.6	722.1
20°	3462.2	3195.2	2622.2	2039.8	1419.9	938.8	760.5	692.0	665.1	658.5	655.1
22.5°	3345.0	3034.7	2381.1	1670.8	1019.8	724.6	653.4	625.0	620.8	626.7	626.7
25°	3245.4	2890.7	2121.0	1285.1	748.8	609.9	584.8	578.1	594.0	615.8	620.0
27.5°	3170.9	2772.8	1844.0	948.8	596.6	530.4	529.6	540.5	579.9	621.6	630.0
30°	3120.0	2660.6	1547.8	684.4	500.4	466.8	480.2	503.7	561.4	620.8	636.7
32.5°	3094.0	2577.7	1239.1	529.6	428.4	409.9	432.5	461.0	518.0	573.1	594.0
35°	3114.2	2516.7	947.9	441.7	378.1	364.0	387.3	414.9	448.4	471.9	487.8
37.5°	3189.4	2492.4	715.4	395.8	344.0	330.4	348.9	364.8	378.1	384.8	392.4
40°	3351.8	2518.4	573.1	372.3	324.6	307.8	315.5	321.2	329.7	336.3	339.6
42.5°	3591.1	2596.2	513.7	363.2	314.5	290.3	288.6	291.2	302.0	314.5	317.1
45°	3925.7	2733.5	509.5	368.9	309.6	276.0	268.6	271.8	288.6	307.8	311.3
47.5°	4353.1	2942.6	542.9	386.5	313.8	268.6	256.0	260.1	281.1	307.1	311.3
50°	4871.1	3234.5	599.1	412.5	332.2	270.2	251.9	254.3	276.0	304.5	308.7
52.5°	5482.7	3648.7	660.2	437.6	351.3	281.1	255.2	249.3	269.4	294.6	299.6
55°	6162.9	4180.1	722.9	460.2	361.5	294.6	261.9	242.6	256.8	277.8	282.0
57.5°	6997.9	4923.0	831.7	481.9	368.1	303.6	268.6	236.0	240.9	256.0	259.4
60°	8128.3	5973.9	1023.3	518.0	383.1	307.1	267.8	230.1	225.0	233.4	235.0
62.5°	9482.9	7115.0	1183.1	563.1	408.3	309.6	262.8	226.0	211.7	211.7	213.3
65°	10286.9	7420.4	1094.3	600.7	429.2	307.1	256.8	221.7	201.6	192.4	193.2
67.5°	9604.9	6526.0	937.9	608.2	428.4	295.4	247.7	214.2	191.6	177.3	176.5
69°	8750.7	5630.8	867.7	588.2	408.3	280.4	236.0	205.8	184.1	169.1	168.2
70°	8062.2	5084.4	821.6	566.4	386.5	269.4	226.7	198.3	178.3	164.0	162.4
72.5°	5861.7	3331.6	701.9	486.9	318.8	226.0	195.8	174.0	159.0	150.6	148.8
75°	2929.3	1588.8	569.7	395.0	244.2	180.6	160.6	145.5	138.1	136.5	135.6
77.5°	962.2	727.8	407.4	294.6	181.5	141.5	129.6	118.8	117.0	122.2	120.6
80°	528.8	423.3	258.5	194.9	123.8	103.8	102.0	96.2	98.8	107.1	105.5
82.5°	269.4	220.1	159.8	117.0	83.6	74.5	81.1	77.9	81.1	88.8	87.9
85°	132.9	120.6	101.1	71.1	55.2	47.7	57.8	60.2	62.0	67.7	67.7
87.5°	77.0	71.1	53.5	33.4	27.6	25.2	33.4	32.6	38.4	41.9	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)