

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: P192902

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192902
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-04-LED-E1-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 18764.2 lumens
Efficiency: N/A
Efficacy: 109.7 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): 171
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



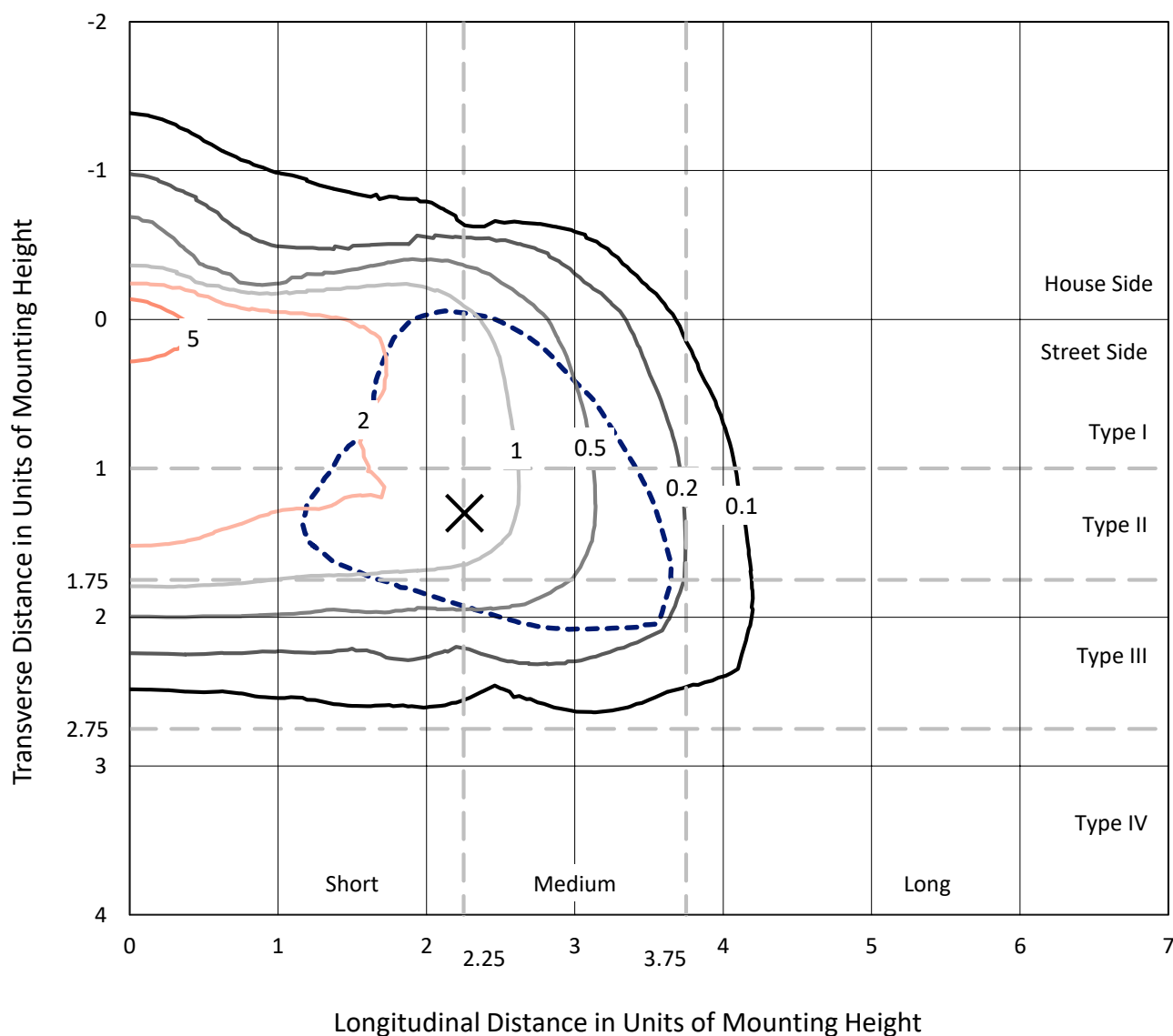
REPORT NUMBER: P192902

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

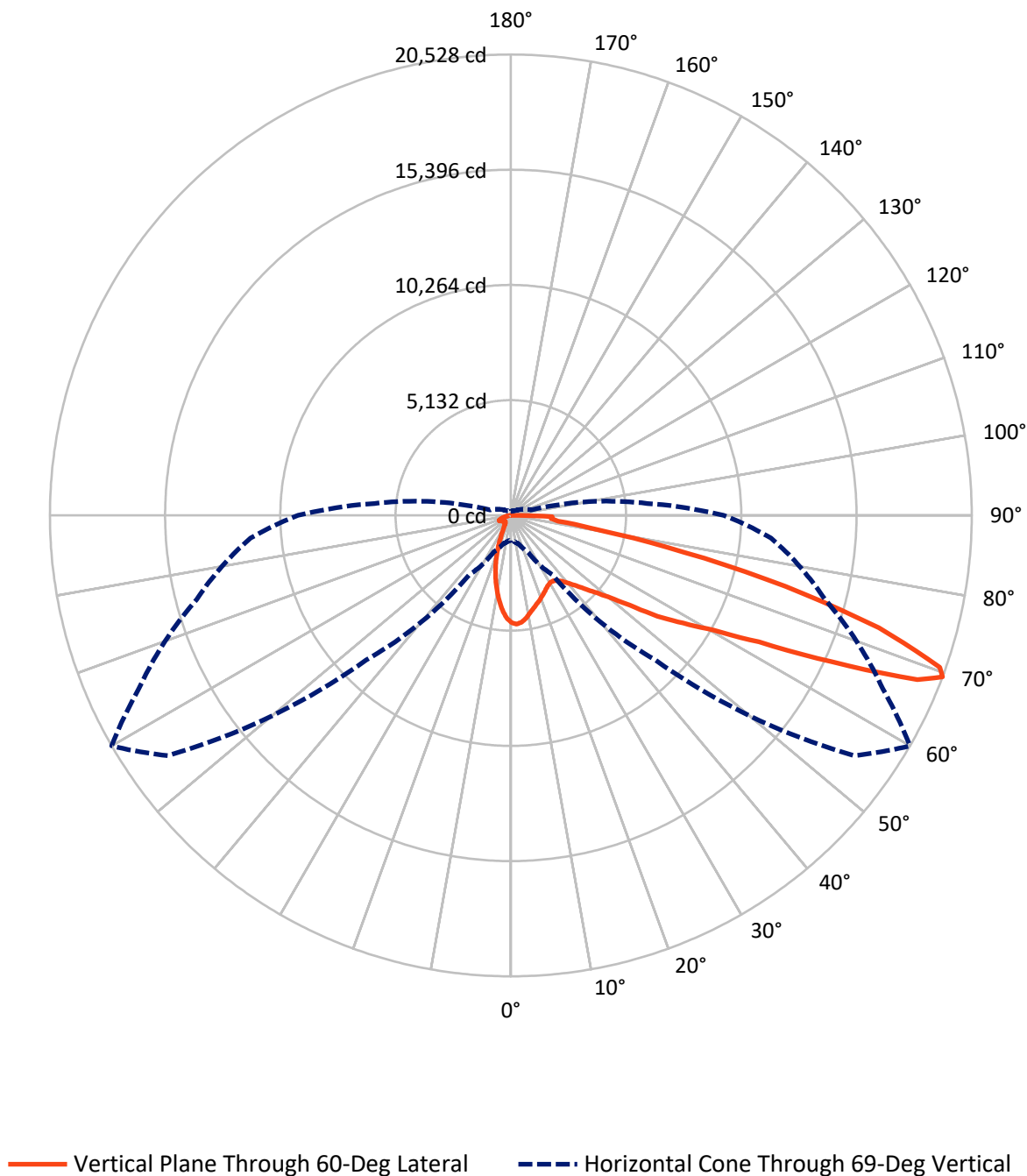


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P192902

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2669.6	0.0	2669.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16094.6	0.0	16094.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	18764.2	0.0	18764.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.3	2.2
10°-20°	861.4	4.6
20°-30°	1097.5	5.8
30°-40°	1508.8	8.0
40°-50°	2448.2	13.0
50°-60°	3926.3	20.9
60°-70°	5225.6	27.8
70°-80°	2821.4	15.0
80°-90°	470.8	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°	18764.2	100.0
0°-180°	18764.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192902

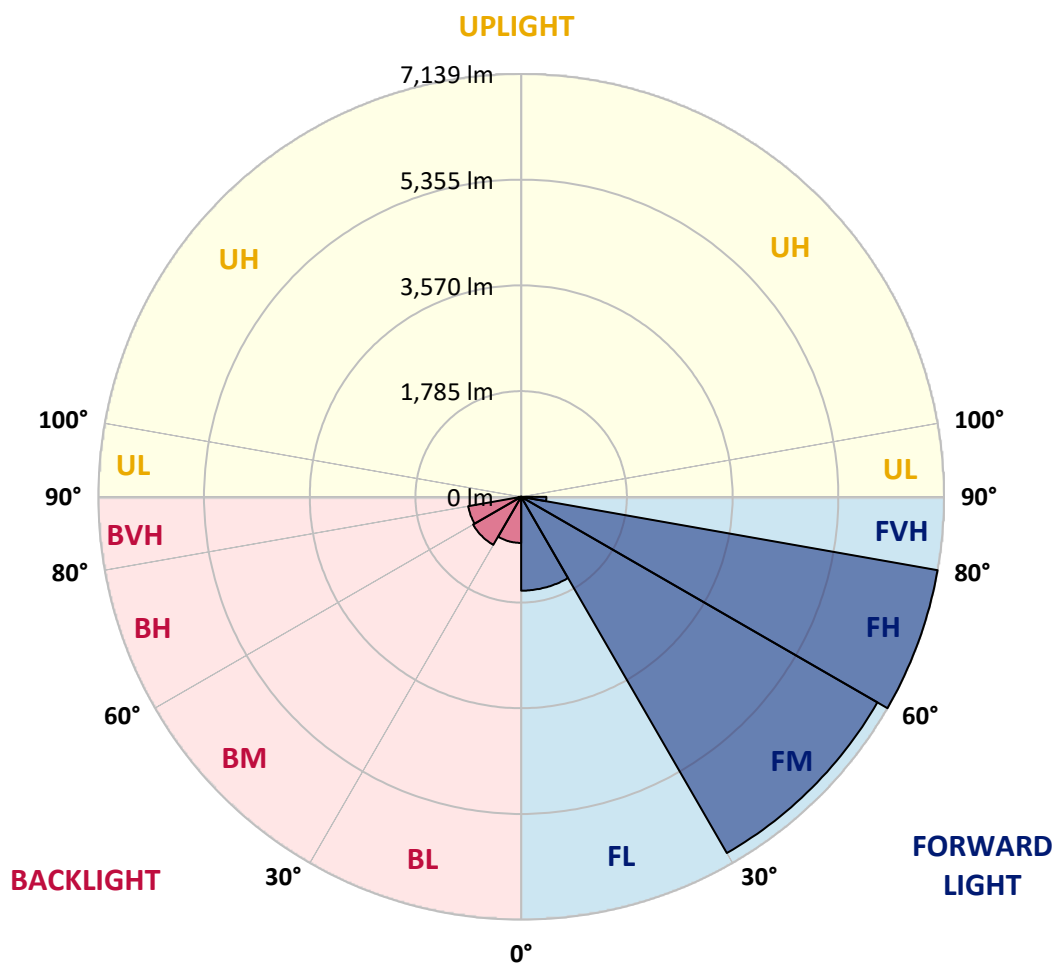
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1584.4	8.4			
FM	(30°-60°)	6945.4	37.0			
FH	(60°-80°)	7139.4	38.0			G3/7500
FVH	(80°-90°)	425.4	2.3			G3/500
BL	(0°-30°)	778.8	4.2	B2/1000		
BM	(30°-60°)	937.9	5.0	B1/1000		
BH	(60°-80°)	907.6	4.8	B2/1000		G2/1000
BVH	(80°-90°)	45.3	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: P192902

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4
2.5°	4879.3	4890.1	4885.6	4882.9	4891.1	4878.4	4852.1	4843.9	4831.2	4801.3	4750.6
5°	4696.2	4728.8	4727.0	4751.4	4792.3	4803.1	4791.3	4793.2	4769.6	4732.4	4648.1
7.5°	4379.8	4393.5	4400.8	4454.2	4528.5	4588.4	4639.0	4655.4	4644.5	4612.8	4504.0
10°	4053.5	4064.5	4081.6	4144.2	4238.5	4320.9	4417.1	4472.3	4495.9	4490.4	4368.9
12.5°	3773.5	3784.3	3807.0	3877.7	3990.0	4091.6	4231.2	4300.1	4356.2	4389.8	4259.3
15°	3522.4	3545.9	3567.7	3649.3	3775.2	3908.5	4066.2	4153.3	4240.3	4315.5	4162.3
17.5°	3326.6	3350.1	3362.9	3437.2	3571.3	3734.5	3919.3	4021.9	4130.5	4253.9	4066.2
20°	3213.4	3224.1	3218.7	3260.4	3380.9	3554.1	3773.5	3892.2	4023.6	4195.9	3970.2
22.5°	3181.5	3182.5	3162.5	3158.0	3235.9	3381.9	3617.6	3761.7	3923.1	4157.8	3887.7
25°	3258.6	3255.9	3201.6	3157.0	3165.2	3250.5	3467.2	3634.7	3838.8	4149.6	3824.2
27.5°	3429.8	3438.1	3357.4	3274.1	3191.6	3188.8	3352.8	3529.6	3769.9	4186.9	3797.0
30°	3670.1	3683.6	3597.6	3491.6	3336.6	3208.7	3308.5	3467.2	3727.3	4263.9	3792.5
32.5°	3933.0	3947.5	3882.2	3770.7	3567.7	3332.0	3339.3	3472.5	3725.4	4371.7	3823.3
35°	4213.0	4229.4	4195.9	4101.6	3875.9	3559.5	3457.1	3560.4	3784.3	4536.7	3905.8
37.5°	4525.7	4551.2	4560.3	4470.5	4229.4	3859.6	3650.2	3727.3	3917.6	4766.0	4057.2
40°	4976.3	5011.6	5008.9	4880.2	4634.6	4264.7	3948.4	3968.3	4125.2	5072.4	4299.2
42.5°	5839.3	5846.5	5620.8	5340.7	5080.5	4690.7	4300.1	4283.7	4411.6	5460.3	4655.4
45°	6936.9	6907.0	6404.8	5863.7	5546.4	5180.2	4757.8	4678.1	4775.0	5933.5	5101.4
47.5°	7847.9	7778.9	7144.5	6397.5	6039.6	5712.3	5295.4	5155.7	5209.3	6470.2	5677.8
50°	8164.2	8112.5	7586.8	6841.7	6506.3	6361.3	5957.1	5759.4	5774.0	7110.0	6353.1
52.5°	8096.2	8088.9	7738.2	7134.5	6943.2	7043.0	6894.3	6626.9	6485.5	7820.7	7081.8
55°	7935.7	7951.2	7824.3	7475.3	7442.6	7701.0	8118.8	7921.3	7481.6	8537.6	7835.2
57.5°	7378.3	7418.1	7697.5	7904.1	8246.7	8631.1	9105.0	9048.9	8553.9	9312.6	8730.7
60°	5944.4	6036.8	6785.5	7820.7	9074.2	10276.2	10488.3	10357.8	9659.8	10274.3	9913.6
62.5°	4165.1	4261.1	5151.2	6771.1	8938.3	12134.4	12961.0	12398.0	11247.8	11691.1	11444.6
65°	2229.8	2276.1	2955.9	4698.0	7546.0	12517.8	16574.9	15718.4	13762.3	13437.8	12754.4
67.5°	1230.0	1255.4	1515.5	2372.1	4833.1	11023.0	18877.3	19524.4	16904.8	14600.8	12515.9
69°	1112.1	1135.8	1306.2	1796.5	3234.2	9114.1	18652.4	20527.8	18282.6	14485.6	11634.9
70°	1087.6	1109.4	1262.6	1656.1	2617.8	7512.4	17899.2	20271.3	18610.7	14073.1	10866.3
72.5°	979.0	1002.5	1151.1	1487.4	2237.1	3745.4	14178.3	17139.6	16896.7	12202.3	8242.1
75°	912.8	934.5	1186.5	1456.7	2141.9	2370.3	9347.0	12632.0	12420.8	8535.8	4444.2
77.5°	390.7	388.9	550.2	1232.8	2173.6	2295.1	5022.5	7891.4	7199.7	3648.3	1276.2
80°	261.0	256.5	261.0	362.5	1993.2	2307.8	2631.4	4005.5	3025.6	930.1	629.0
82.5°	224.7	221.1	229.3	221.1	700.7	2634.0	2237.1	2130.1	1438.5	528.5	311.8
85°	151.4	145.0	197.6	198.6	330.8	2340.5	2519.8	1799.3	1163.8	313.6	154.0
87.5°	72.5	70.7	115.2	140.5	193.9	950.9	2827.2	1843.6	1173.8	160.4	73.4
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: P192902

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4	4781.4
2.5°	4735.2	4698.0	4661.8	4618.3	4572.9	4522.1	4496.8	4471.4	4465.1	4457.8	4432.4
5°	4604.6	4552.1	4461.4	4361.7	4256.6	4154.1	4076.3	4027.3	3990.0	3971.0	3937.4
7.5°	4436.0	4359.0	4200.4	4028.2	3851.4	3690.0	3550.5	3462.5	3379.2	3340.2	3295.8
10°	4275.7	4160.5	3914.0	3660.1	3406.3	3162.5	2933.2	2771.0	2626.8	2546.2	2489.0
12.5°	4137.8	3980.1	3638.5	3294.8	2946.8	2599.6	2256.1	1986.0	1760.2	1641.5	1580.8
15°	4003.7	3813.3	3376.4	2940.5	2493.7	2021.3	1569.9	1263.6	1076.9	1002.5	977.1
17.5°	3882.2	3638.5	3113.6	2583.3	2025.8	1454.8	1055.1	886.5	814.8	790.4	782.3
20°	3750.8	3461.7	2840.7	2209.9	1538.2	1016.9	824.0	749.6	720.6	713.4	709.7
22.5°	3623.9	3287.6	2579.7	1810.1	1104.9	784.9	707.9	677.1	672.6	678.9	678.9
25°	3516.1	3131.7	2297.8	1392.3	811.2	660.8	633.6	626.4	643.5	667.1	671.6
27.5°	3435.3	3003.9	1997.8	1027.9	646.3	574.7	573.7	585.5	628.1	673.5	682.6
30°	3380.1	2882.5	1676.9	741.5	542.0	505.8	520.3	545.6	608.2	672.6	689.8
32.5°	3352.0	2792.6	1342.5	573.7	464.2	444.1	468.6	499.5	561.0	620.9	643.5
35°	3373.7	2726.6	1026.9	478.5	409.7	394.3	419.7	449.6	485.8	511.3	528.5
37.5°	3455.4	2700.3	774.9	428.8	372.6	358.1	377.9	395.2	409.7	417.0	425.1
40°	3631.1	2728.3	620.9	403.3	351.7	333.6	341.8	348.1	357.2	364.4	367.9
42.5°	3890.4	2812.7	556.5	393.5	340.8	314.5	312.7	315.4	327.2	340.8	343.5
45°	4252.9	2961.3	552.0	399.8	335.4	299.2	290.9	294.6	312.7	333.6	337.2
47.5°	4716.1	3187.8	588.3	418.8	339.9	290.9	277.4	281.9	304.5	332.7	337.2
50°	5277.2	3504.3	649.0	446.9	359.9	292.9	272.8	275.6	299.2	330.0	334.5
52.5°	5939.8	3952.9	715.2	474.0	380.7	304.5	276.4	270.1	291.8	319.0	324.5
55°	6676.8	4528.5	783.2	498.6	391.5	319.0	283.7	262.9	278.3	300.9	305.5
57.5°	7581.4	5333.4	901.0	522.1	398.8	329.0	290.9	255.6	261.0	277.4	281.1
60°	8806.0	6471.9	1108.6	561.0	415.1	332.7	290.1	249.2	243.8	252.9	254.7
62.5°	10273.4	7708.2	1281.7	610.0	442.3	335.4	284.6	244.7	229.3	229.3	231.2
65°	11144.6	8039.1	1185.6	650.8	465.0	332.7	278.3	240.2	218.4	208.4	209.3
67.5°	10405.8	7070.1	1016.1	659.0	464.2	320.0	268.3	232.0	207.6	192.2	191.2
69°	9480.3	6100.3	939.9	637.2	442.3	303.6	255.6	223.0	199.4	183.1	182.3
70°	8734.3	5508.3	890.1	613.6	418.8	291.8	245.7	214.8	193.1	177.6	175.8
72.5°	6350.4	3609.4	760.5	527.5	345.4	244.7	212.1	188.6	172.2	163.2	161.3
75°	3173.4	1721.3	617.4	427.9	264.6	195.8	174.0	157.8	149.5	147.7	146.9
77.5°	1042.5	788.7	441.4	319.0	196.6	153.2	140.5	128.7	126.8	132.3	130.6
80°	572.8	458.7	280.0	211.2	134.2	112.4	110.6	104.3	107.0	116.1	114.1
82.5°	291.8	238.4	173.1	126.8	90.6	80.7	88.0	84.3	88.0	96.0	95.2
85°	144.1	130.6	109.7	77.0	59.9	51.7	62.5	65.2	67.0	73.4	73.4
87.5°	83.4	77.0	58.0	36.3	29.9	27.2	36.3	35.4	41.7	45.4	44.5
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)