

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: P190960

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-AFL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10326.7 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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

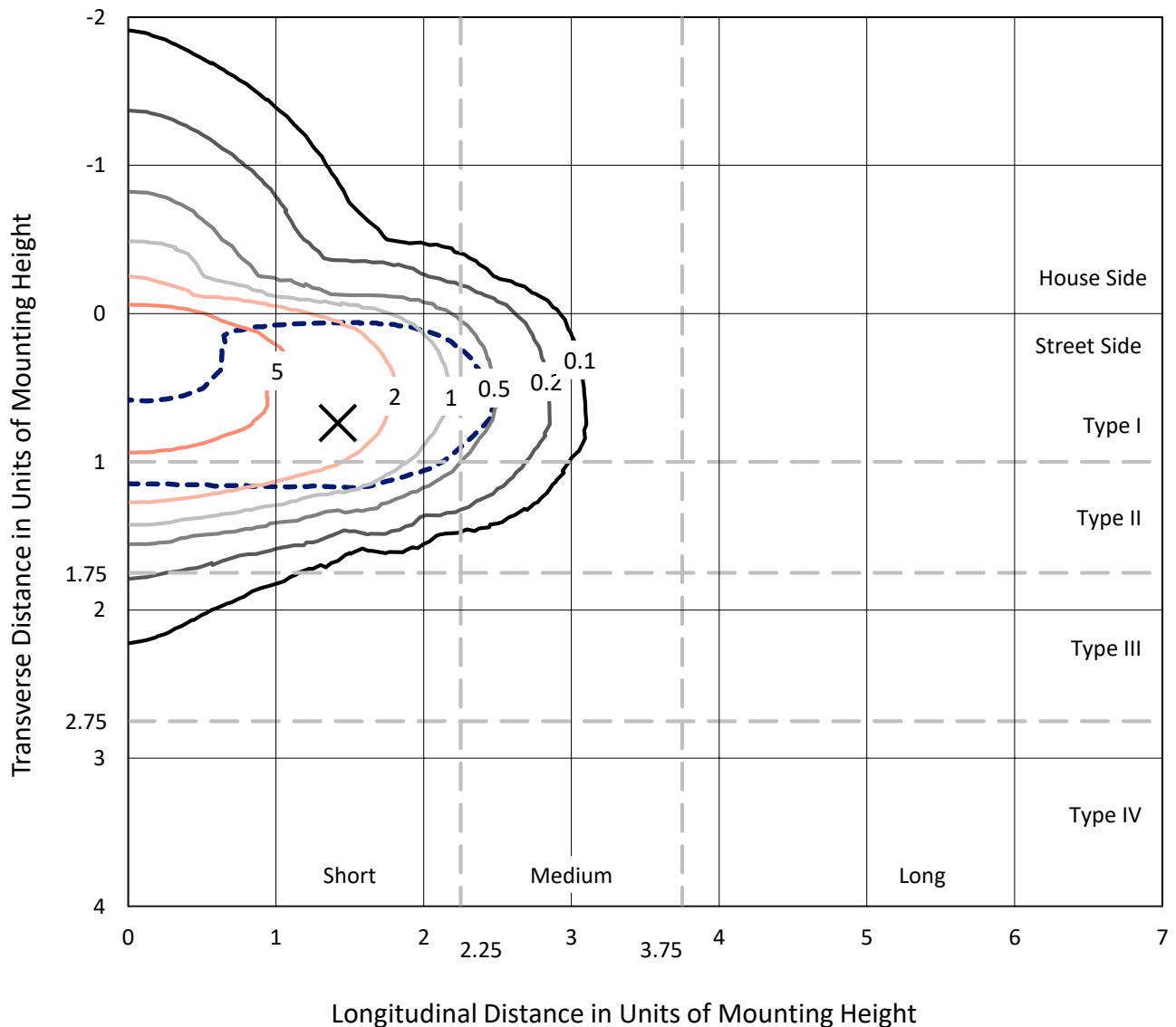


REPORT NUMBER: P190960

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-800

Iso-Footcandle Lines of Horizontal Illumination

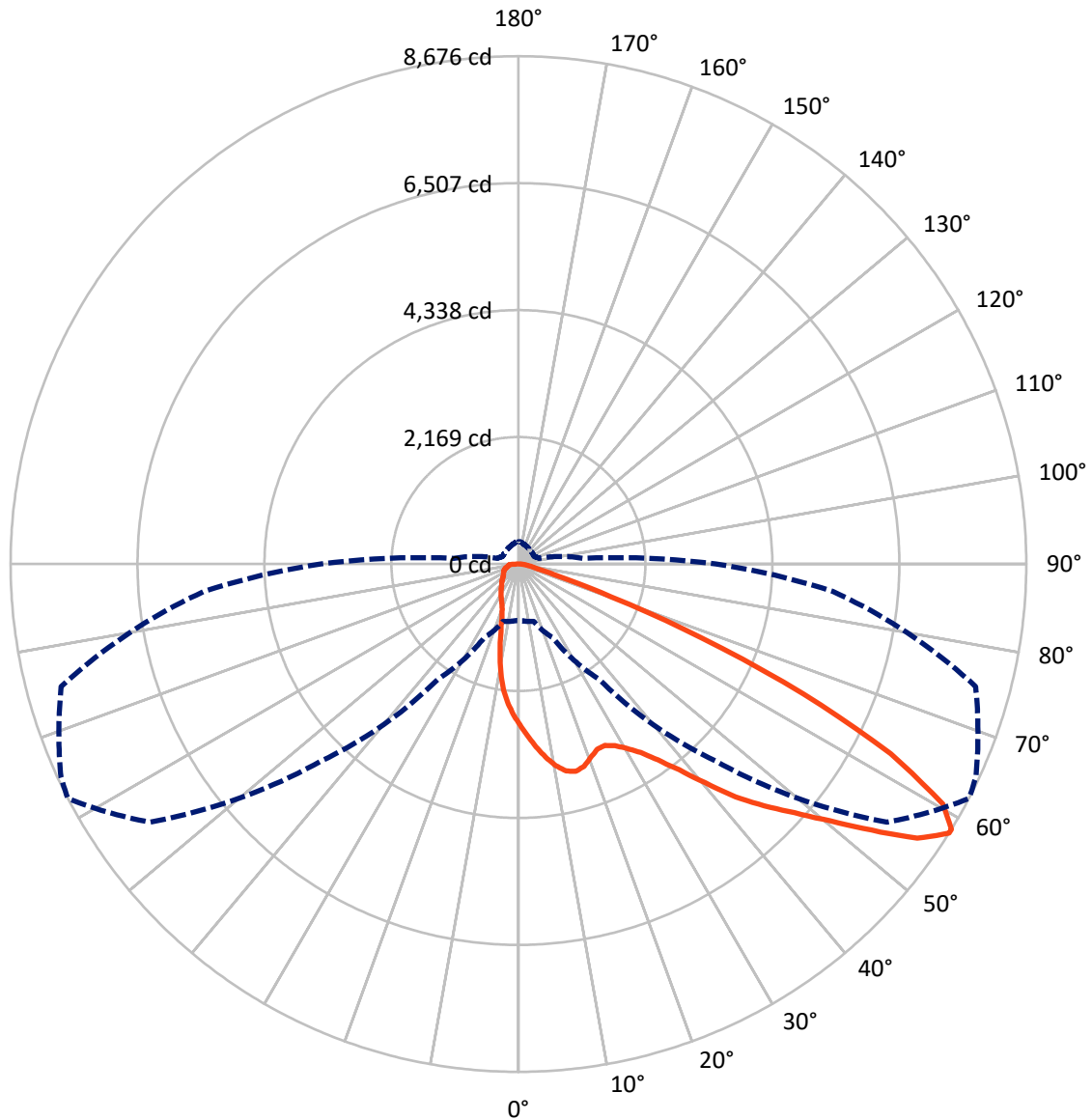
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P190960
CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-800

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.8	0.0	1574.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8751.8	0.0	8751.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	10326.7	0.0	10326.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	2.4
10°-20°	627.1	6.1
20°-30°	1013.7	9.8
30°-40°	1609.3	15.6
40°-50°	2354.7	22.8
50°-60°	2462.8	23.8
60°-70°	1455.0	14.1
70°-80°	409.9	4.0
80°-90°	148.8	1.4
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°	10326.7	100.0
0°-180°	10326.7	100.0



REPORT NUMBER: P190960

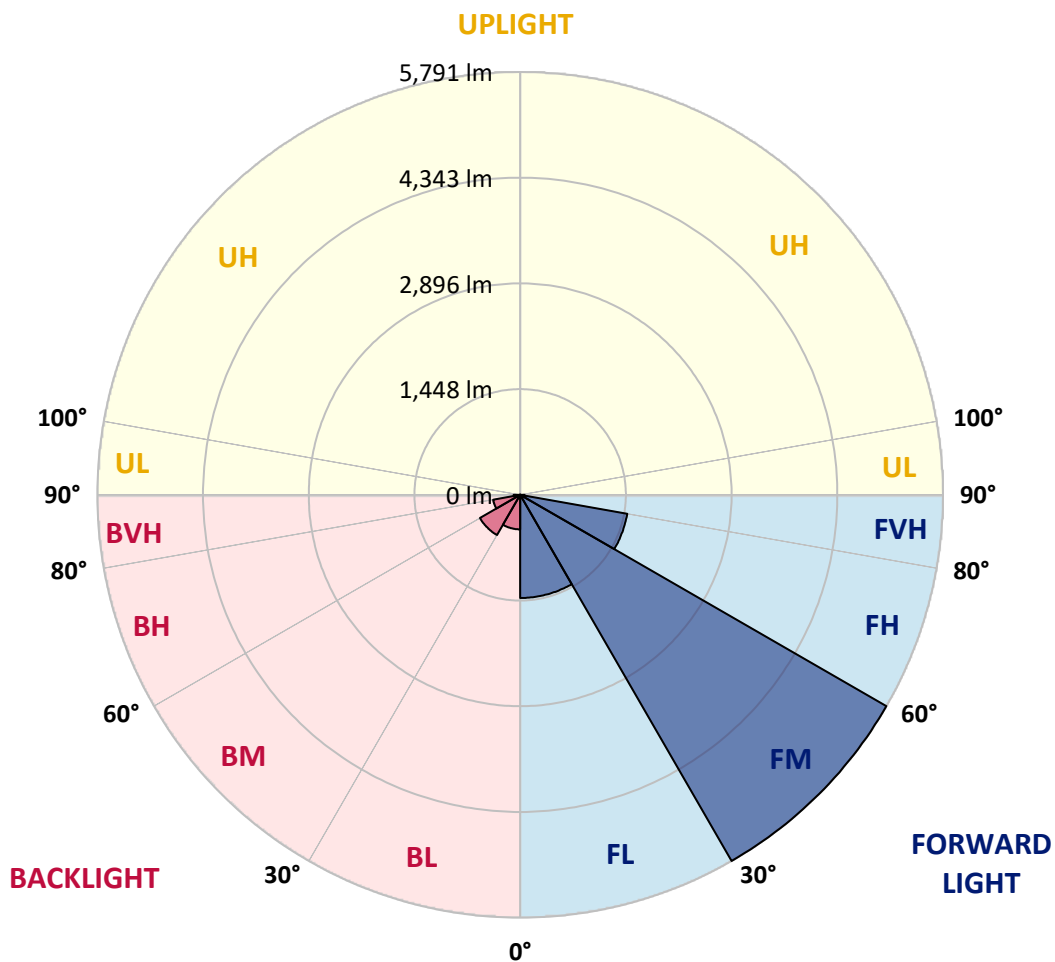
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1412.8	13.7			
FM	(30°-60°)	5791.2	56.1			
FH	(60°-80°)	1489.2	14.4			G1/1800
FVH	(80°-90°)	58.7	0.6			G1/100
BL	(0°-30°)	473.3	4.6	B1/500		
BM	(30°-60°)	635.6	6.2	B1/1000		
BH	(60°-80°)	375.8	3.6	B1/500		G1/500
BVH	(80°-90°)	90.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P190960

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0
2.5°	3134.5	3109.3	3093.2	3079.1	3060.6	3021.2	2968.2	2934.6	2917.7	2859.8	2791.2
5°	3441.8	3419.5	3402.9	3384.0	3350.9	3289.2	3203.6	3135.5	3102.0	2986.2	2849.1
7.5°	3369.9	3379.1	3407.9	3457.9	3500.6	3492.5	3416.0	3329.5	3285.3	3124.3	2916.2
10°	2936.2	2952.1	3001.7	3119.0	3308.6	3503.1	3562.4	3502.7	3457.9	3261.0	2985.3
12.5°	2849.1	2848.6	2852.5	2883.6	2996.4	3270.2	3567.3	3627.6	3600.9	3391.3	3055.8
15°	2884.6	2885.5	2882.7	2895.8	2930.8	3039.2	3418.5	3675.8	3694.7	3522.5	3128.7
17.5°	2977.9	2975.6	2964.3	2964.3	2977.0	3019.2	3243.5	3631.0	3718.5	3638.8	3192.8
20°	3134.5	3123.4	3093.7	3066.4	3052.8	3075.7	3171.5	3528.0	3677.2	3740.4	3245.9
22.5°	3324.2	3315.4	3267.3	3208.9	3161.7	3161.2	3208.5	3437.9	3605.7	3836.3	3290.6
25°	3569.3	3555.2	3483.7	3390.3	3307.6	3276.0	3289.2	3433.5	3566.8	3940.3	3330.5
27.5°	3857.1	3831.4	3746.8	3612.0	3490.5	3426.8	3407.9	3512.8	3602.3	4069.2	3386.0
30°	4206.3	4176.6	4068.2	3892.6	3721.0	3616.4	3576.0	3653.4	3720.0	4226.2	3475.0
32.5°	4603.6	4560.7	4435.3	4241.8	4016.1	3856.6	3791.0	3839.1	3892.1	4415.4	3586.3
35°	5152.6	5101.5	4920.1	4653.2	4398.4	4179.1	4074.0	4109.0	4160.5	4697.4	3747.3
37.5°	5527.0	5504.2	5383.6	5132.7	4855.4	4603.1	4440.6	4461.1	4490.2	5050.0	3953.4
40°	5523.6	5532.8	5535.3	5537.7	5349.0	5107.4	4932.8	4911.4	4905.6	5437.1	4187.8
42.5°	5246.9	5284.9	5407.4	5655.9	5770.7	5659.8	5499.8	5438.0	5407.4	5893.1	4436.3
45°	4823.3	4843.8	5073.3	5558.6	5986.5	6206.9	6085.7	5891.2	5835.7	6312.3	4642.5
47.5°	4605.0	4627.4	4771.9	5300.8	5984.1	6648.9	6718.8	6348.3	6249.1	6677.0	4820.5
50°	4085.2	4131.9	4313.8	4852.6	5765.8	6852.1	7380.7	6892.9	6687.7	7032.0	4998.9
52.5°	3130.6	3202.7	3406.3	4115.3	5211.9	6751.5	7910.3	7553.3	7263.5	7399.6	5152.1
55°	1974.8	2028.2	2199.4	2906.5	4169.3	6227.7	8111.1	8267.6	8009.9	7747.8	5284.9
57.5°	1073.7	1097.5	1161.7	1604.7	2711.9	5069.9	7818.3	8674.2	8567.2	8043.5	5385.0
58°	960.9	976.9	1016.8	1390.7	2405.2	4753.3	7688.5	8675.6	8622.1	8086.7	5392.8
60°	712.9	704.6	669.1	793.6	1338.7	3283.8	6903.6	8328.5	8485.5	8139.7	5354.8
62.5°	626.4	606.4	534.0	525.7	651.1	1512.8	5282.4	7134.2	7505.2	7837.2	5124.4
65°	588.4	567.0	473.6	443.4	469.7	640.0	3111.7	5350.4	5815.9	6920.2	4534.9
67.5°	560.2	532.4	435.3	393.8	395.8	423.1	1247.3	3369.9	3893.6	5254.2	3527.4
70°	533.0	502.8	402.6	355.0	343.8	334.6	496.0	1686.8	2162.0	3318.9	2249.1
72.5°	503.8	474.1	374.0	324.4	302.5	271.8	323.9	690.0	963.8	1570.2	1020.2
75°	461.5	434.8	345.2	297.1	266.0	225.2	244.6	360.3	432.3	625.3	491.6
77.5°	409.5	387.6	313.1	274.8	235.9	182.8	188.2	249.9	277.2	357.9	292.3
80°	294.2	302.0	278.7	247.0	210.1	148.3	144.4	182.4	196.9	230.0	190.2
82.5°	206.6	211.0	230.5	201.8	173.6	116.7	106.5	128.4	137.2	151.2	102.6
85°	142.5	137.6	158.0	140.6	125.4	77.8	72.9	87.1	92.4	93.8	53.0
87.5°	85.6	85.6	91.5	75.4	67.6	40.4	39.4	49.6	53.0	50.5	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0
2.5°	2750.4	2715.8	2642.4	2583.6	2509.2	2431.9	2388.6	2342.4	2310.7	2287.9	2324.3
5°	2771.3	2700.8	2549.1	2405.2	2246.1	2080.8	1955.3	1838.7	1757.4	1706.8	1754.5
7.5°	2804.3	2695.9	2454.3	2208.1	1922.7	1647.5	1401.4	1247.3	1157.4	1113.1	1140.8
10°	2842.3	2688.1	2342.9	1941.3	1532.7	1186.0	1002.2	940.0	919.5	911.2	915.1
12.5°	2873.9	2671.6	2206.2	1618.3	1151.0	936.6	883.5	882.1	886.5	887.4	888.9
15°	2896.3	2647.3	2003.4	1281.9	920.6	853.4	850.5	859.3	867.6	870.9	872.9
17.5°	2911.3	2597.2	1774.4	1013.4	824.7	813.0	819.9	831.0	839.8	842.2	844.1
20°	2909.9	2523.7	1501.6	845.2	772.7	772.7	784.4	793.1	793.6	790.6	792.2
22.5°	2894.7	2423.1	1237.1	755.7	726.5	734.8	746.4	738.2	704.1	681.8	683.2
25°	2869.5	2303.0	1010.5	698.8	683.7	698.3	694.9	632.6	584.0	562.1	562.1
27.5°	2847.2	2161.0	836.4	649.2	640.9	658.9	598.6	542.2	521.8	511.6	508.2
30°	2831.1	2007.8	720.2	601.5	600.6	587.4	519.4	503.8	500.4	492.1	489.2
32.5°	2835.0	1852.7	645.8	559.7	563.1	502.8	481.4	484.8	481.9	473.1	469.2
35°	2867.0	1705.4	597.1	521.8	511.6	454.2	459.0	465.3	464.4	452.2	448.4
37.5°	2924.4	1565.8	565.1	490.2	446.4	429.8	437.6	447.3	445.0	436.7	433.7
40°	2984.8	1434.5	538.8	465.3	408.0	413.4	420.1	425.4	427.9	430.4	428.4
42.5°	3043.6	1297.4	506.7	440.1	391.9	397.7	400.7	406.0	419.2	428.4	427.9
45°	3078.6	1168.5	473.6	404.1	379.3	382.7	380.7	391.5	407.5	422.6	423.1
47.5°	3117.5	1068.4	447.3	371.0	367.1	369.6	363.8	374.4	389.0	407.5	409.5
50°	3164.7	1008.5	426.5	344.7	350.6	350.6	349.1	358.9	379.3	400.7	404.6
52.5°	3218.2	996.9	409.0	325.8	334.1	333.6	335.0	349.6	372.0	392.9	396.3
55°	3283.4	1028.5	389.9	311.7	318.0	320.0	324.8	341.4	360.3	384.1	385.7
57.5°	3359.2	1092.6	374.9	300.5	303.4	309.7	317.5	332.6	353.0	379.3	380.7
58°	3371.9	1106.3	372.5	299.5	300.5	307.8	316.6	331.1	351.6	380.2	381.8
60°	3372.4	1151.5	367.1	295.1	289.3	301.5	311.2	325.8	349.1	383.7	387.1
62.5°	3252.7	1151.0	363.2	288.9	277.6	292.8	303.9	320.9	346.7	391.9	398.7
65°	2864.2	1046.0	344.7	279.2	268.4	285.0	297.6	317.5	353.5	427.9	432.3
67.5°	2240.3	857.3	310.3	265.5	256.2	277.2	293.7	317.0	360.8	436.2	439.2
70°	1481.2	641.4	272.3	249.9	243.7	267.9	295.6	333.6	352.5	418.7	410.9
72.5°	768.8	450.3	241.7	230.5	229.0	259.6	323.9	331.6	344.3	393.8	384.1
75°	403.7	312.7	214.9	209.1	211.5	257.7	382.2	322.8	333.6	376.9	395.4
77.5°	247.0	252.4	192.1	189.7	194.5	251.9	381.8	311.7	318.0	346.7	367.1
80°	165.3	204.7	174.6	175.0	178.5	230.5	342.8	294.2	299.0	327.8	348.6
82.5°	104.5	121.1	158.6	166.8	162.4	190.2	291.2	267.9	274.8	374.9	396.3
85°	53.0	75.9	137.6	160.5	146.4	133.2	236.3	234.9	238.2	270.4	282.5
87.5°	24.3	41.8	107.5	140.0	110.4	83.2	171.7	174.1	187.7	192.1	192.1
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)