

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: P269150

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16966.9 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - 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

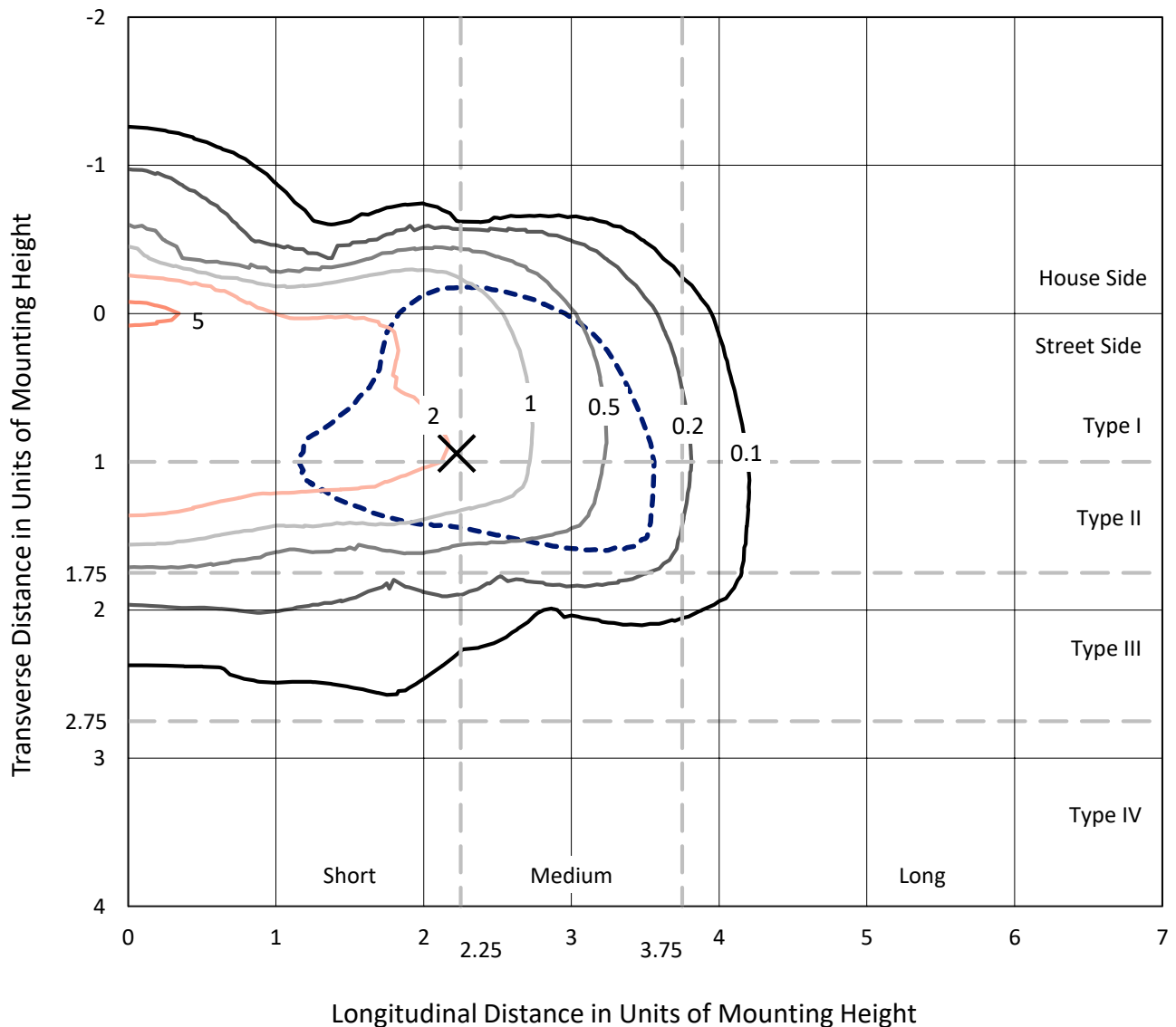


REPORT NUMBER: P269150

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7027-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

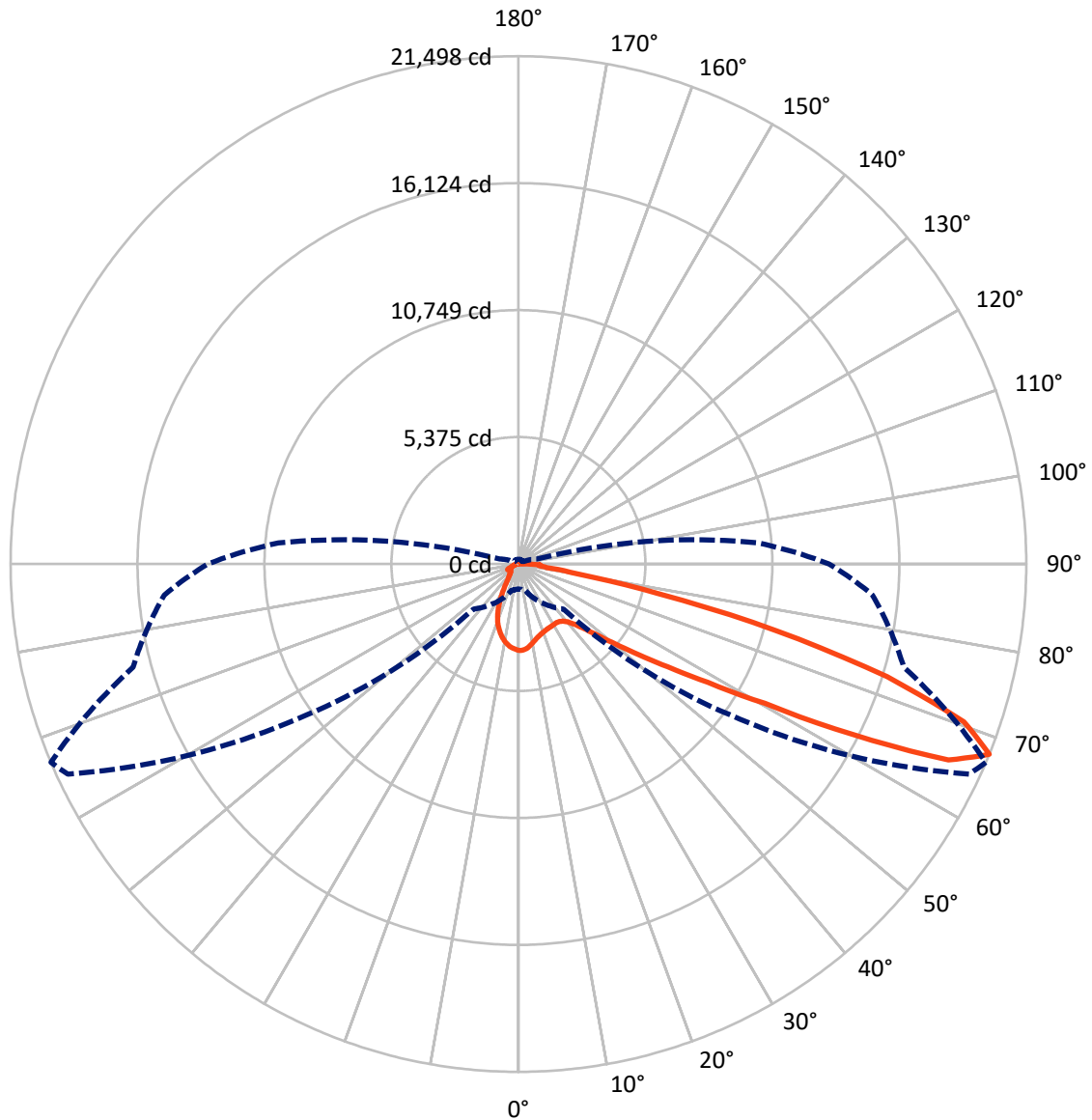


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269150

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7027-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269150

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7027-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2811.2	0.0	2811.2
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	14155.7	0.0	14155.7
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	16966.9	0.0	16966.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.2	1.8
10°-20°	722.4	4.3
20°-30°	979.3	5.8
30°-40°	1392.2	8.2
40°-50°	2329.1	13.7
50°-60°	3684.7	21.7
60°-70°	4693.9	27.7
70°-80°	2458.7	14.5
80°-90°	394.3	2.3
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°	16966.9	100.0
0°-180°	16966.9	100.0



REPORT NUMBER: P269150

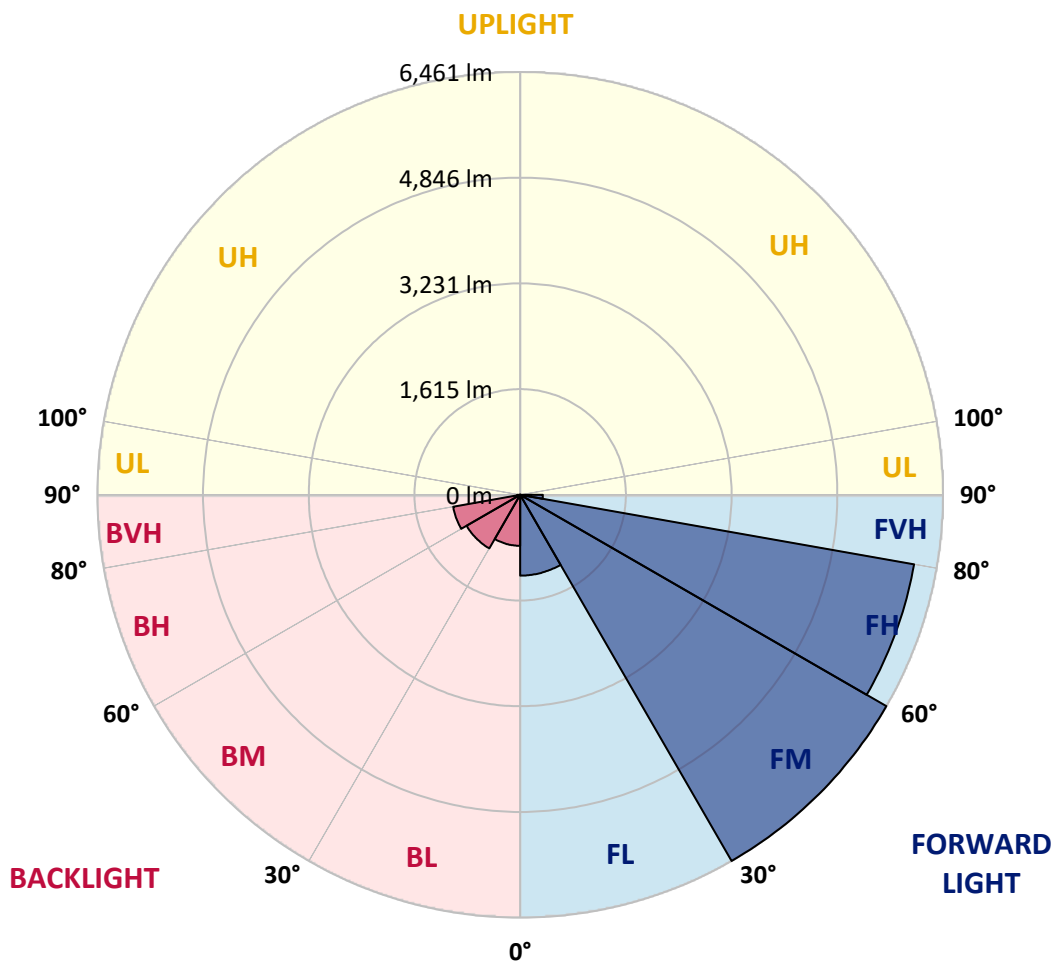
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7027-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.8	7.3			
FM (30°-60°)	6461.3	38.1			
FH (60°-80°)	6112.8	36.0			G3/7500
FVH (80°-90°)	346.7	2.0			G3/500
BL (0°-30°)	779.2	4.6	B2/1000		
BM (30°-60°)	944.7	5.6	B1/1000		
BH (60°-80°)	1039.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	47.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P269150

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7027-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8
2.5°	3509.0	3515.0	3533.4	3545.2	3597.8	3620.3	3636.2	3652.1	3654.7	3662.2	3654.7
5°	3141.0	3153.5	3187.8	3226.4	3328.4	3408.7	3493.1	3581.1	3597.0	3653.9	3669.8
7.5°	2855.6	2852.3	2880.8	2926.8	3031.3	3142.6	3290.8	3465.7	3499.8	3628.0	3689.9
10°	2647.3	2644.8	2675.0	2722.7	2822.1	2927.5	3094.9	3334.1	3382.7	3586.9	3709.1
12.5°	2493.3	2494.2	2524.2	2577.0	2678.2	2784.6	2954.3	3207.0	3269.0	3539.2	3729.1
15°	2391.3	2397.9	2422.2	2478.3	2577.0	2683.2	2849.9	3111.6	3181.1	3501.6	3751.7
17.5°	2357.0	2367.8	2376.2	2417.2	2501.7	2608.0	2771.1	3041.4	3115.1	3475.6	3771.9
20°	2388.8	2401.3	2385.4	2399.6	2453.2	2547.0	2709.2	2986.1	3061.5	3446.3	3774.4
22.5°	2525.1	2536.9	2490.0	2449.0	2445.6	2502.6	2658.2	2942.7	3020.6	3424.6	3775.1
25°	2765.3	2772.8	2694.1	2598.7	2505.9	2486.7	2622.2	2912.6	2995.4	3405.4	3759.2
27.5°	3059.7	3065.6	2975.2	2834.7	2648.2	2524.2	2609.7	2895.0	2981.1	3388.6	3732.5
30°	3418.0	3445.4	3324.2	3146.9	2874.8	2635.5	2634.8	2885.7	2965.2	3360.2	3679.7
32.5°	3784.4	3796.1	3712.4	3532.6	3180.3	2831.4	2705.1	2892.5	2961.1	3325.9	3612.9
35°	4155.9	4170.9	4116.6	3971.8	3597.8	3118.3	2842.2	2931.8	2987.0	3314.1	3566.0
37.5°	4637.1	4657.1	4581.7	4414.5	4105.7	3507.4	3070.6	3030.5	3066.5	3347.7	3551.8
40°	5397.6	5388.4	5168.3	4918.9	4661.2	4005.3	3397.0	3197.8	3218.7	3455.6	3595.2
42.5°	6282.7	6260.2	5881.2	5489.5	5272.1	4607.6	3828.8	3488.2	3483.9	3668.0	3748.4
45°	6989.0	6970.5	6629.1	6146.4	5972.3	5293.8	4386.9	3920.7	3889.8	4005.3	4031.2
47.5°	7371.3	7372.1	7175.5	6781.5	6777.3	6165.6	5103.9	4546.6	4493.1	4547.4	4519.8
50°	7237.5	7255.0	7234.1	7108.6	7511.8	7308.5	6040.2	5419.3	5311.4	5364.9	5258.7
52.5°	6589.8	6612.5	6736.2	6928.6	7820.6	8689.9	7415.7	6503.6	6378.1	6358.9	6241.0
55°	5441.9	5469.5	5722.2	6245.0	7563.8	9617.9	9586.1	7886.0	7685.9	7504.4	7454.1
57.5°	3751.0	3797.0	4203.6	4980.1	6732.8	9898.2	12170.5	9856.4	9449.7	8815.4	8827.1
60°	2114.3	2167.9	2647.3	3352.7	5056.2	9593.5	14136.8	12840.8	11982.3	10350.8	10437.8
62.5°	1344.6	1402.3	1766.2	2329.3	3033.8	7953.7	14942.5	16990.0	15899.7	12243.4	12328.7
65°	1088.6	1113.7	1285.1	1922.7	2203.1	4791.7	14330.9	20407.9	20001.2	14645.5	14247.3
67.5°	1062.7	1071.0	1159.6	1614.0	2112.6	2693.3	11430.9	21047.1	21498.1	16888.8	15046.3
70°	1050.1	1079.4	1306.9	1540.4	2023.2	2271.6	6869.2	19295.1	20007.1	17475.3	13982.8
72.5°	509.6	507.9	657.6	1393.1	2279.2	2356.2	3529.3	15612.0	16326.4	15140.0	11490.4
75°	410.9	375.8	359.0	510.3	2191.3	2433.1	2249.0	10742.3	11259.4	10150.8	7063.5
77.5°	390.0	348.1	318.8	319.5	926.2	2580.4	1905.1	5945.5	6096.2	4585.0	1935.3
80°	323.0	284.5	263.6	297.0	448.4	2457.4	2060.0	2690.9	2469.1	1126.1	644.3
82.5°	224.2	204.2	198.3	249.3	359.0	1751.2	2395.5	1445.8	1212.4	564.0	397.4
85°	143.1	122.2	135.6	181.5	279.5	808.2	2467.5	1127.1	896.1	358.2	224.2
87.5°	66.0	53.5	67.0	100.4	182.4	278.7	2347.8	1265.9	922.9	189.2	141.5
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: P269150

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7027-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8	3659.8
2.5°	3661.4	3645.5	3632.9	3609.5	3583.6	3558.5	3535.9	3507.4	3499.1	3491.5	3503.2
5°	3673.1	3657.2	3611.1	3539.2	3459.7	3385.3	3310.9	3247.3	3207.8	3186.2	3198.7
7.5°	3690.6	3668.0	3572.6	3440.5	3297.4	3167.0	3032.1	2924.3	2844.8	2807.2	2818.1
10°	3706.5	3663.1	3507.4	3309.1	3100.1	2905.8	2693.3	2517.6	2387.1	2318.4	2335.2
12.5°	3713.2	3643.9	3416.3	3145.1	2858.1	2573.6	2260.8	1998.0	1810.7	1742.1	1727.8
15°	3719.9	3622.1	3315.9	2958.6	2566.2	2163.7	1725.3	1410.7	1255.0	1220.7	1213.3
17.5°	3721.6	3584.3	3202.1	2756.1	2223.9	1675.9	1179.7	979.8	980.6	1035.8	1042.6
20°	3704.0	3528.4	3063.9	2504.3	1813.9	1158.9	809.9	775.6	902.0	1040.0	1056.8
22.5°	3663.8	3454.0	2907.5	2210.5	1344.6	763.1	626.7	664.3	827.5	996.5	1015.8
25°	3612.9	3363.6	2722.7	1870.0	890.2	545.5	525.5	571.4	682.0	794.9	805.7
27.5°	3543.5	3256.4	2515.2	1480.0	578.1	449.3	462.6	493.7	538.9	589.0	594.0
30°	3454.0	3128.3	2293.5	1079.4	436.8	404.1	423.5	440.1	459.4	487.8	490.4
32.5°	3350.9	3005.4	2065.8	745.6	387.3	380.7	395.8	404.1	419.1	436.8	438.5
35°	3264.8	2888.3	1829.8	527.1	366.5	363.2	373.2	376.5	390.8	409.9	411.7
37.5°	3215.5	2792.9	1586.3	425.1	352.2	347.3	353.0	353.0	373.2	401.6	405.9
40°	3218.7	2740.2	1342.8	384.0	340.5	333.8	334.7	334.7	360.6	391.7	394.0
42.5°	3310.0	2753.6	1127.1	368.1	331.4	323.7	319.5	322.1	344.0	364.0	365.6
45°	3524.2	2848.2	924.5	358.2	322.1	319.5	310.5	309.6	317.9	327.2	327.2
47.5°	3875.6	3034.7	787.4	351.3	314.5	313.8	302.9	291.9	291.2	294.6	294.6
50°	4447.1	3356.0	695.3	344.0	309.6	302.9	290.3	273.7	267.8	270.3	270.3
52.5°	5303.9	3929.1	660.2	333.8	298.6	287.8	273.7	256.8	251.9	252.8	252.8
55°	6427.6	4809.3	655.1	322.1	287.0	269.4	257.8	245.1	239.3	240.9	240.9
57.5°	7800.5	6026.6	744.7	303.7	271.1	250.9	244.2	236.0	231.8	234.3	233.4
60°	9469.8	7619.9	1104.5	284.5	255.2	234.3	234.3	227.6	224.2	226.7	226.0
62.5°	11392.5	9449.7	1552.9	270.3	238.5	221.0	224.2	221.0	217.5	219.2	218.4
65°	13097.6	10642.0	1454.1	259.4	221.7	208.3	214.2	212.4	210.1	211.7	210.8
67.5°	13147.1	10200.2	816.6	247.7	205.8	195.8	204.2	203.3	201.6	203.3	202.5
70°	11733.0	8612.9	460.2	226.0	189.2	180.6	192.4	191.6	189.9	193.2	192.4
72.5°	9400.4	6250.1	336.3	199.2	172.4	164.7	178.3	177.3	177.3	182.4	179.9
75°	5409.2	3216.2	268.6	170.7	154.8	148.8	160.6	161.4	163.1	169.9	164.7
77.5°	1542.0	1002.4	219.2	144.7	132.9	130.6	142.2	143.9	144.7	152.4	145.5
80°	573.2	461.9	180.6	121.4	108.8	109.7	120.6	123.0	123.8	131.3	123.0
82.5°	365.6	304.5	146.5	93.8	85.3	84.5	97.8	101.2	101.2	102.0	97.0
85°	213.3	182.4	110.4	67.8	60.2	57.8	72.9	78.6	76.1	74.5	71.1
87.5°	143.1	125.6	67.8	37.6	32.6	30.9	42.7	46.8	45.2	42.7	40.2
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)