

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: P191833

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16236 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

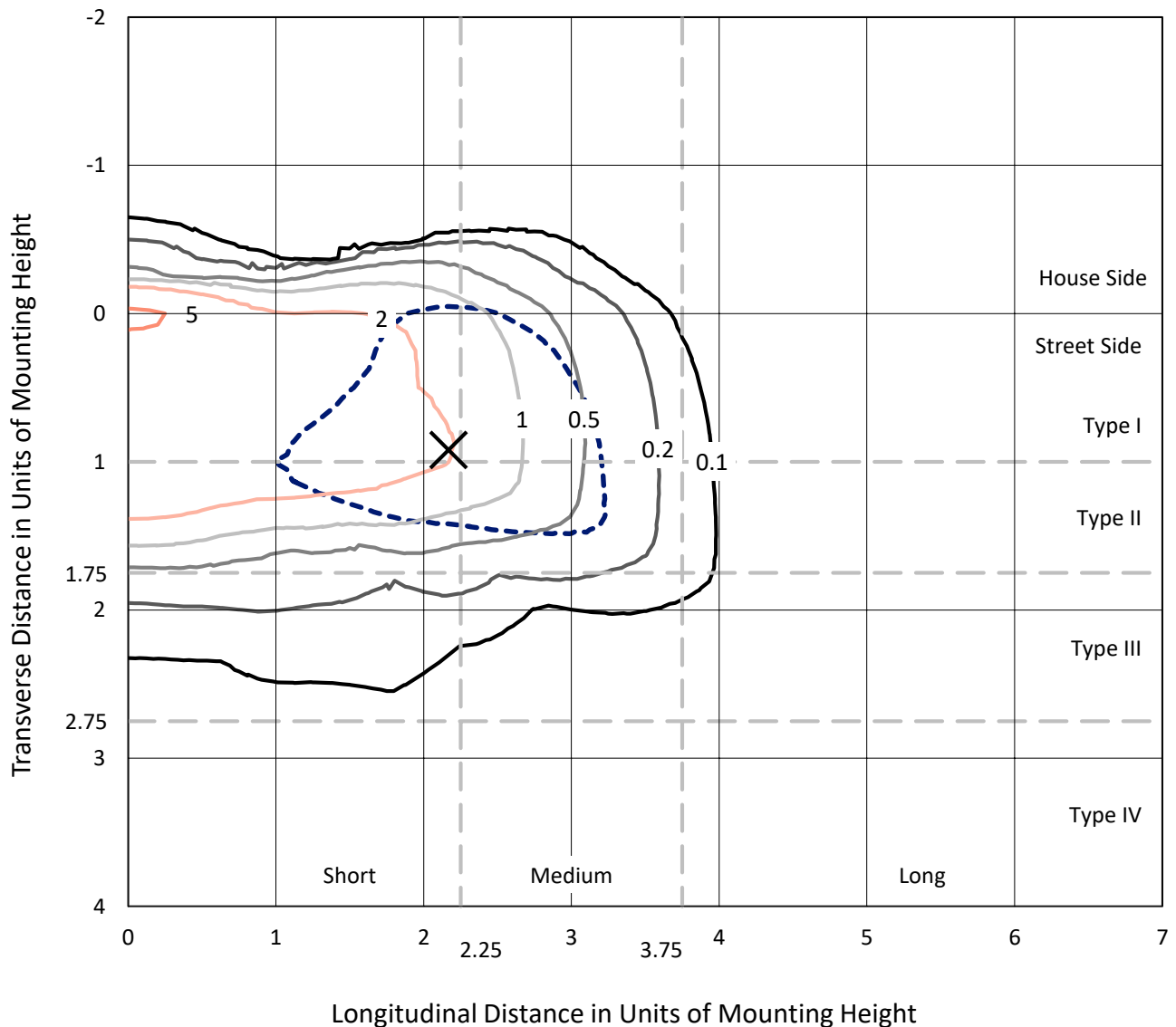


REPORT NUMBER: P191833

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7050-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

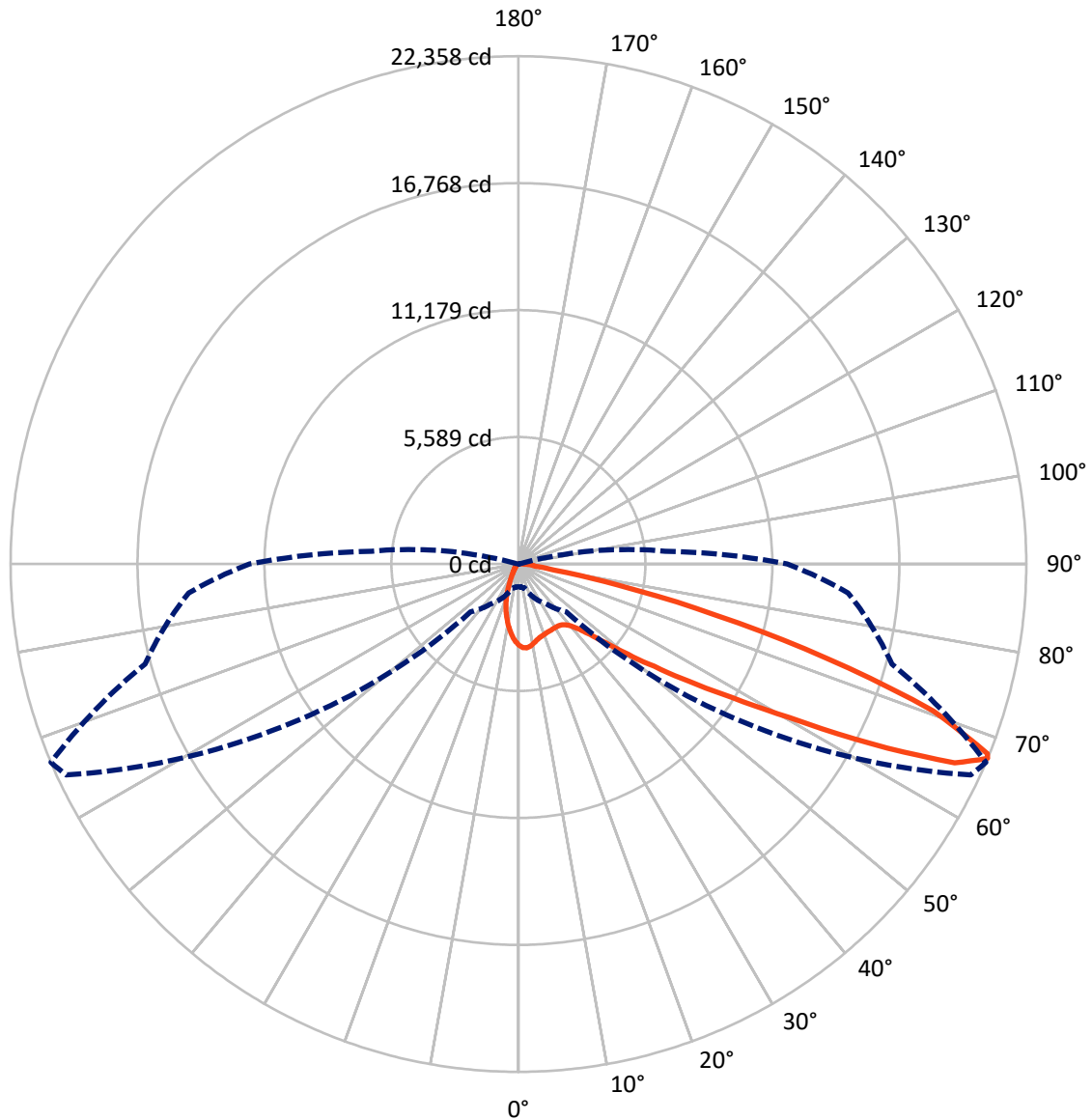
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191833
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7050-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191833

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7050-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.8	0.0	1685.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14550.2	0.0	14550.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	16236.0	0.0	16236.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.8
10°-20°	620.1	3.8
20°-30°	901.6	5.6
30°-40°	1406.5	8.7
40°-50°	2491.5	15.3
50°-60°	3942.6	24.3
60°-70°	4515.7	27.8
70°-80°	1873.1	11.5
80°-90°	193.5	1.2
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°	16236.0	100.0
0°-180°	16236.0	100.0



REPORT NUMBER: P191833

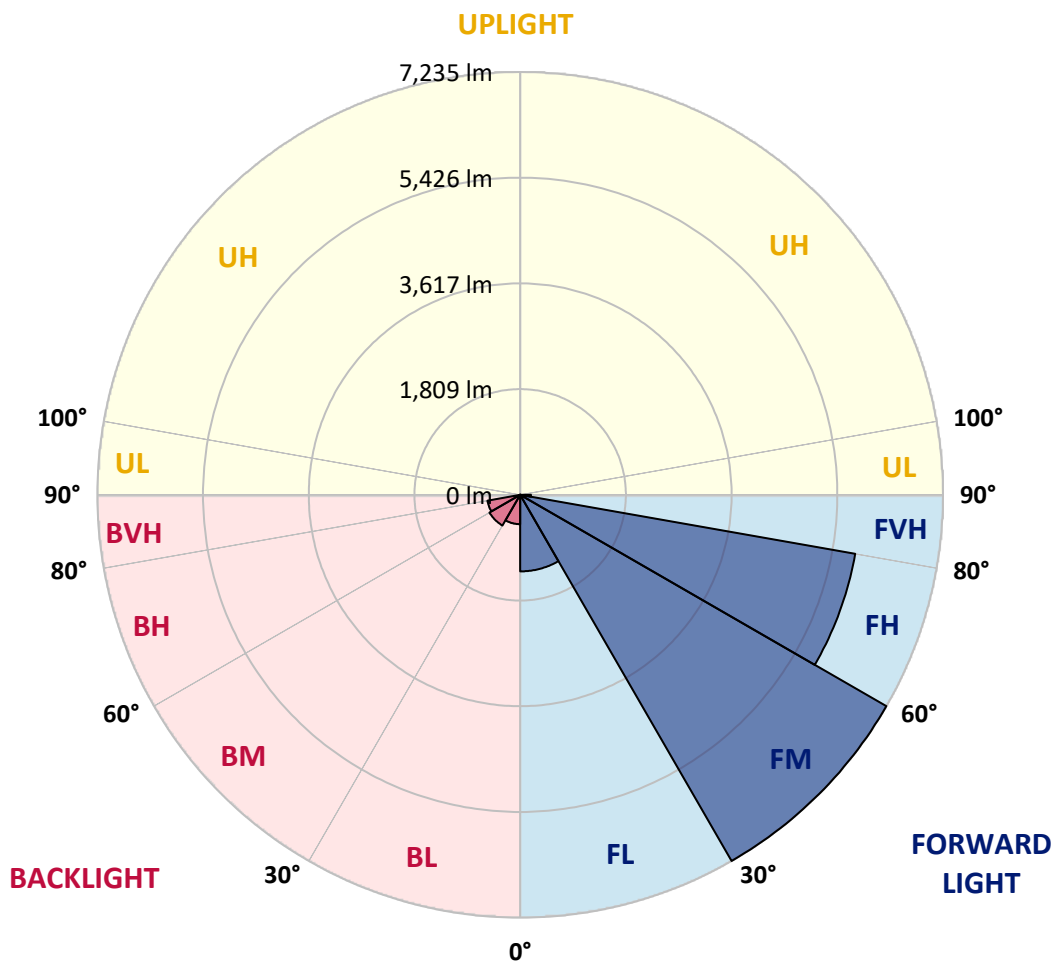
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7050-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.0	8.1			
FM (30°-60°)	7234.8	44.6			
FH (60°-80°)	5820.6	35.9			G3/7500
FVH (80°-90°)	184.8	1.1			G2/225
BL (0°-30°)	503.0	3.1	B2/1000		
BM (30°-60°)	605.9	3.7	B1/1000		
BH (60°-80°)	568.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P191833

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7050-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6
2.5°	3701.9	3709.4	3708.5	3714.2	3727.4	3728.4	3715.1	3689.5	3683.9	3650.7	3592.9
5°	3414.0	3435.7	3449.0	3503.0	3563.6	3636.5	3691.4	3711.3	3708.5	3684.8	3597.7
7.5°	3085.4	3107.1	3122.3	3185.7	3266.2	3391.2	3534.2	3651.7	3662.1	3687.6	3593.9
10°	2866.6	2870.4	2891.2	2951.8	3036.1	3164.0	3334.4	3539.9	3571.2	3664.9	3584.4
12.5°	2686.7	2689.5	2717.0	2782.3	2872.3	3001.1	3180.1	3417.8	3466.0	3636.5	3582.5
15°	2558.8	2569.2	2593.9	2662.0	2757.7	2885.5	3069.3	3327.8	3385.6	3626.1	3599.6
17.5°	2516.2	2527.6	2535.1	2584.4	2671.5	2796.5	2985.0	3269.1	3334.4	3631.8	3632.7
20°	2560.7	2569.2	2552.2	2564.5	2618.5	2730.2	2913.9	3218.9	3296.5	3638.4	3675.3
22.5°	2726.4	2730.2	2683.8	2629.8	2620.4	2681.9	2858.1	3179.1	3262.4	3656.4	3725.5
25°	3010.5	3003.9	2928.1	2811.7	2701.8	2673.4	2824.9	3154.5	3245.4	3675.3	3777.6
27.5°	3353.4	3362.8	3258.7	3089.1	2879.9	2730.2	2820.2	3144.1	3237.8	3688.6	3823.1
30°	3770.0	3783.3	3664.0	3450.9	3150.7	2870.4	2863.8	3142.2	3233.1	3680.1	3826.9
32.5°	4195.2	4211.3	4117.6	3897.9	3512.5	3105.2	2962.2	3163.0	3242.6	3650.7	3805.1
35°	4640.3	4663.1	4600.6	4412.1	4003.0	3444.3	3135.5	3226.5	3287.1	3647.9	3783.3
37.5°	5254.9	5275.8	5158.4	4958.5	4596.8	3898.8	3414.0	3345.8	3392.2	3693.3	3789.0
40°	6172.6	6169.8	5866.7	5560.8	5249.3	4476.5	3805.1	3561.7	3585.4	3830.6	3859.1
42.5°	7172.6	7167.9	6720.0	6255.0	5973.7	5187.7	4319.3	3934.8	3918.7	4083.5	4040.9
45°	7943.5	7942.6	7577.0	7053.3	6845.9	6004.0	4984.1	4453.8	4429.2	4494.5	4376.1
47.5°	8272.1	8277.8	8094.1	7725.7	7812.8	7108.2	5822.2	5205.7	5168.8	5142.3	4962.3
50°	8016.4	8027.8	8042.9	7971.0	8522.1	8592.2	6946.3	6265.4	6247.4	6129.0	5847.8
52.5°	7181.2	7238.9	7417.0	7645.2	8768.3	10016.5	8708.7	7581.7	7485.2	7359.2	7049.5
55°	5773.9	5837.4	6175.4	6729.4	8401.9	10952.1	11178.5	9278.8	9117.8	8741.8	8294.8
57.5°	3821.2	3919.7	4410.2	5114.8	7337.4	11102.7	13642.6	11634.0	11073.4	10044.0	9540.2
60°	2105.2	2199.9	2732.1	3370.4	5299.5	10358.4	15299.9	14700.4	13709.8	11499.5	11052.5
62.5°	1296.5	1347.6	1740.6	2334.4	3178.2	8175.5	15642.7	18553.8	17407.0	13373.6	12879.3
65°	1032.2	1054.0	1246.3	1908.2	2278.5	4862.9	14535.6	21491.4	21108.8	15642.7	14514.8
67°	1001.9	1010.5	1101.4	1638.3	2147.8	2981.2	12177.6	21969.6	22357.9	17015.8	14565.9
67.5°	1008.6	1018.0	1104.2	1563.5	2144.0	2739.7	11365.0	21781.2	22271.7	17124.7	14339.6
70°	972.6	1001.9	1264.3	1562.6	2038.9	2276.6	6806.1	18872.0	19382.4	15911.6	12167.2
72.5°	344.7	346.6	546.4	1264.3	2216.9	2301.2	3417.8	13834.8	14212.7	12171.9	8772.1
75°	204.6	174.2	181.8	359.9	2118.5	2234.9	1971.7	8840.3	8981.4	6974.7	4442.4
77.5°	141.1	123.1	126.9	159.1	806.9	2203.7	1566.4	4610.0	4459.5	2446.1	946.1
80°	80.5	71.0	75.8	139.2	293.6	2056.0	1477.3	1869.4	1593.8	414.8	261.4
82.5°	42.6	36.0	43.6	114.6	204.6	1281.3	1480.2	903.4	715.9	140.2	178.0
85°	15.2	12.3	20.8	78.6	136.4	393.0	1372.2	759.5	596.6	68.2	135.4
87.5°	2.8	2.8	8.5	32.2	54.9	120.3	811.6	450.8	302.1	40.7	92.8
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: P191833

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7050-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6	3580.6
2.5°	3569.3	3528.6	3473.6	3406.4	3326.8	3256.8	3204.7	3150.7	3139.3	3120.4	3117.6
5°	3545.6	3475.5	3339.2	3182.9	3016.2	2865.6	2743.5	2634.6	2586.3	2544.6	2539.9
7.5°	3510.6	3405.4	3173.4	2921.5	2661.1	2424.3	2223.6	2081.5	1950.8	1888.3	1878.9
10°	3469.8	3319.3	2986.9	2637.4	2277.6	1943.3	1645.0	1394.9	1243.4	1153.5	1142.1
12.5°	3432.0	3235.0	2796.5	2342.9	1864.7	1417.7	1034.1	795.5	636.4	572.0	564.4
15°	3414.0	3166.8	2618.5	2041.7	1432.8	902.5	565.4	437.5	385.4	370.3	369.3
17.5°	3412.1	3109.0	2444.2	1730.2	1003.8	524.6	368.4	336.2	325.8	322.0	322.0
20°	3411.1	3054.1	2270.0	1407.3	637.3	349.4	306.8	299.3	291.7	286.9	286.9
22.5°	3421.5	3004.9	2088.2	1077.7	401.5	283.2	269.9	262.3	252.9	246.2	245.3
25°	3432.0	2967.0	1902.5	767.1	290.7	246.2	233.0	222.5	209.3	200.8	199.8
27.5°	3433.9	2919.6	1703.7	513.3	243.4	215.0	197.9	181.8	166.7	158.2	157.2
30°	3405.4	2840.1	1483.0	346.6	215.0	186.6	163.8	146.8	132.6	126.0	126.0
32.5°	3349.6	2741.6	1240.6	261.4	191.3	160.0	135.4	119.3	109.9	107.0	106.1
35°	3299.4	2635.5	991.5	221.6	171.4	135.4	110.8	100.4	94.7	93.8	92.8
37.5°	3270.0	2550.3	757.6	200.8	152.5	113.6	93.8	86.2	83.3	81.4	82.4
40°	3292.7	2479.3	559.7	183.7	133.5	94.7	79.5	75.8	72.9	72.0	72.0
42.5°	3392.2	2467.0	415.7	168.6	115.5	78.6	69.1	66.3	64.4	63.4	64.4
45°	3653.6	2542.7	322.9	154.4	97.5	66.3	58.7	57.8	56.8	56.8	56.8
47.5°	4046.6	2699.0	269.0	138.3	81.4	56.8	51.1	50.2	49.2	50.2	50.2
50°	4712.3	2985.0	240.5	122.2	67.2	48.3	43.6	43.6	43.6	43.6	44.5
52.5°	5724.7	3547.5	221.6	106.1	54.9	40.7	36.9	36.9	37.9	37.9	38.8
55°	6852.6	4293.7	204.6	90.0	46.4	34.1	30.3	31.3	32.2	33.1	33.1
57.5°	8076.1	5120.5	190.3	73.9	39.8	27.5	25.6	26.5	27.5	29.4	29.4
60°	9552.5	6015.4	169.5	57.8	33.1	21.8	19.9	21.8	24.6	26.5	27.5
62.5°	11173.7	6881.0	143.0	45.5	27.5	17.0	16.1	19.9	23.7	25.6	26.5
65°	12281.7	7152.8	109.9	36.9	20.8	12.3	13.3	18.0	22.7	25.6	25.6
67°	11832.9	6485.1	90.0	31.3	17.0	9.5	12.3	18.0	22.7	24.6	25.6
67.5°	11521.3	6223.7	86.2	30.3	16.1	9.5	12.3	18.0	22.7	25.6	25.6
70°	9374.4	4675.4	72.0	22.7	13.3	8.5	10.4	17.0	21.8	24.6	24.6
72.5°	6513.5	2882.7	64.4	16.1	11.4	7.6	9.5	16.1	20.8	23.7	24.6
75°	3096.7	1043.6	54.9	12.3	10.4	6.6	8.5	16.1	20.8	23.7	23.7
77.5°	631.7	242.4	44.5	10.4	8.5	6.6	7.6	15.2	19.9	22.7	22.7
80°	207.4	93.8	33.1	9.5	8.5	6.6	7.6	14.2	19.9	21.8	22.7
82.5°	149.6	47.4	21.8	9.5	8.5	6.6	6.6	14.2	18.9	21.8	21.8
85°	114.6	33.1	14.2	9.5	8.5	6.6	6.6	13.3	18.0	20.8	20.8
87.5°	75.8	13.3	11.4	9.5	8.5	6.6	6.6	13.3	17.0	19.9	20.8
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)