

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: P383324

Luminaire Tested: **GLEON-SA6B-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23075.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

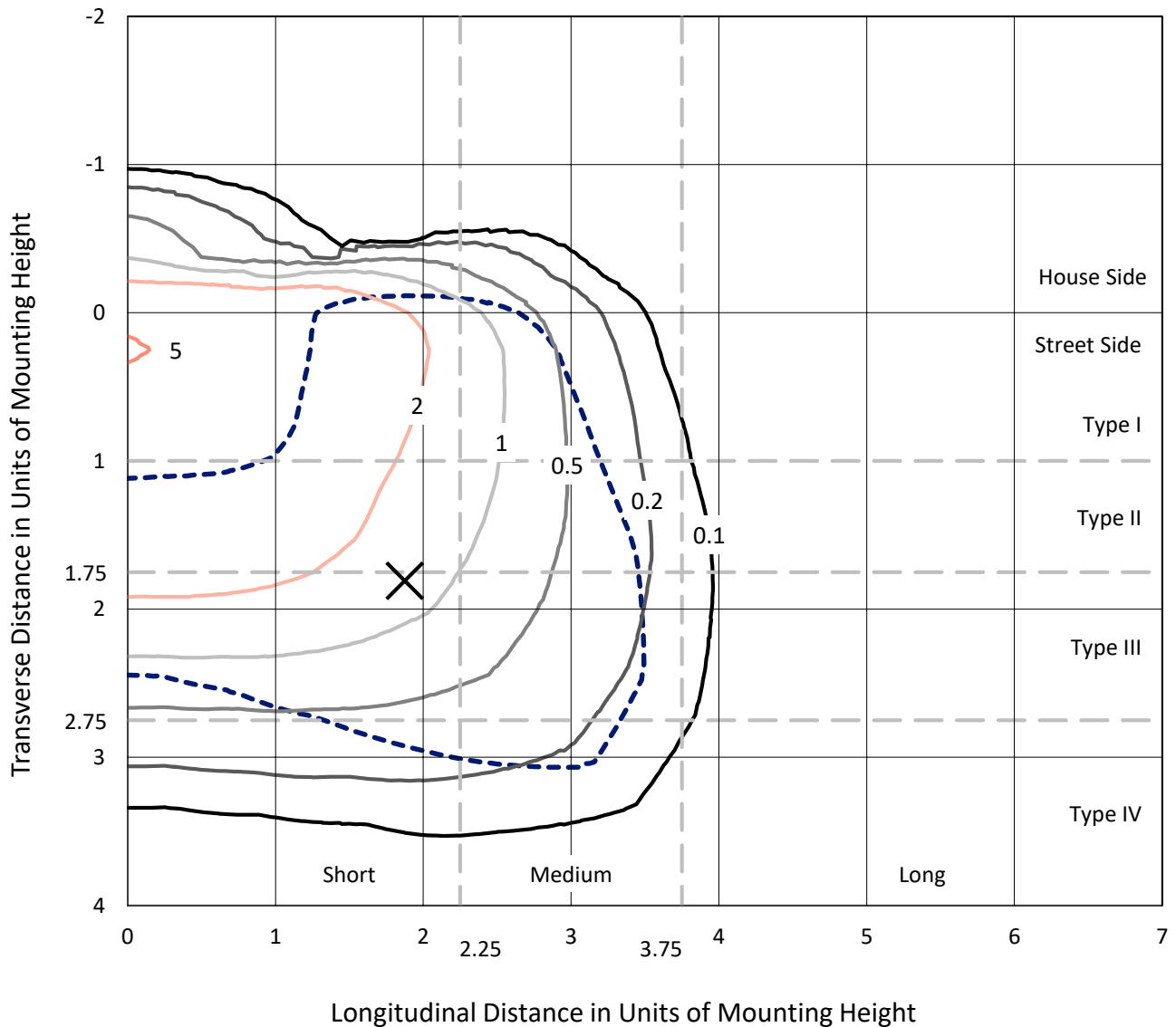
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

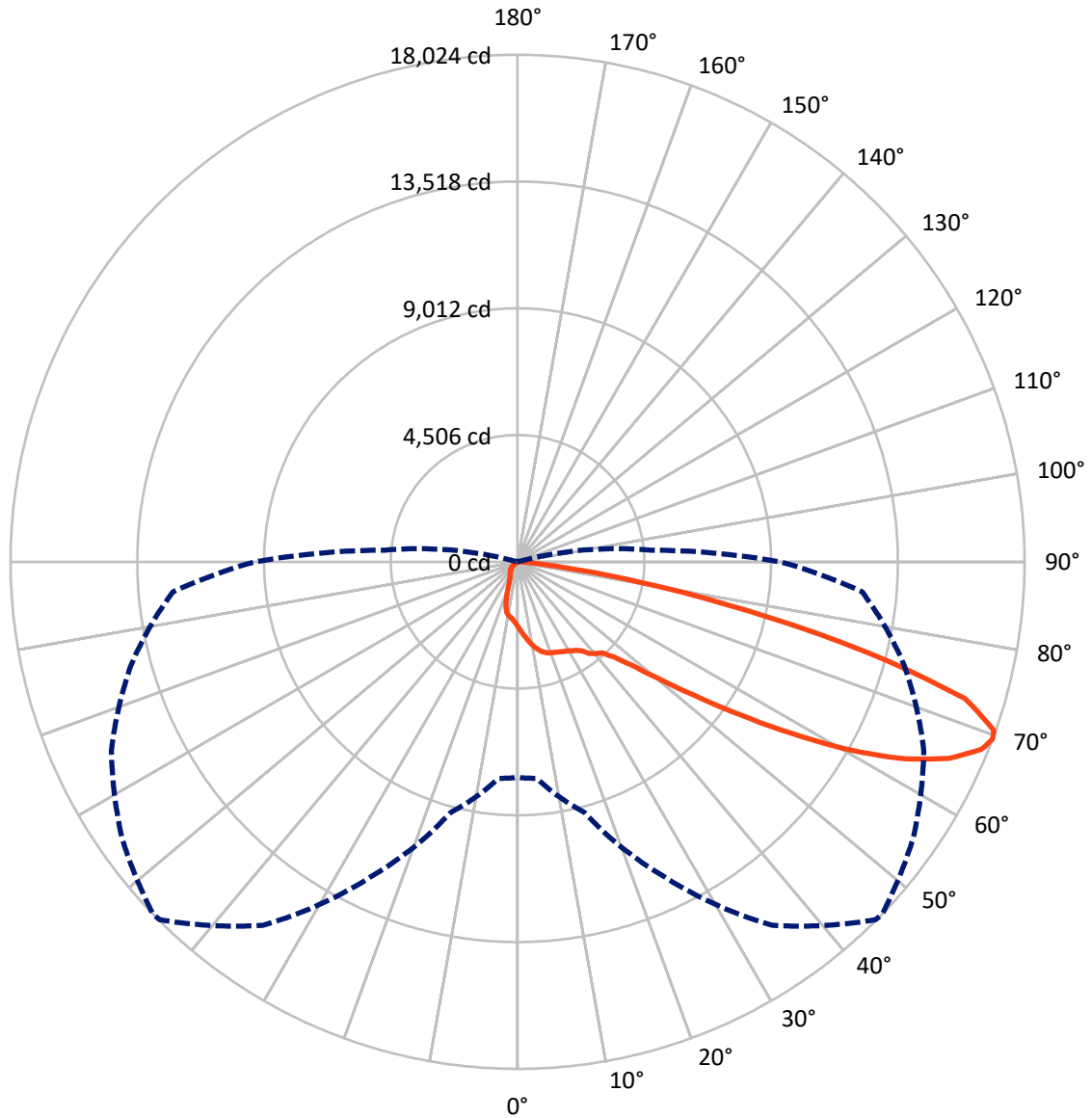
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2368.2	0.0	2368.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	20707.2	0.0	20707.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	23075.4	0.0	23075.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.1	1.0
10°-20°	698.2	3.0
20°-30°	1098.0	4.8
30°-40°	1574.5	6.8
40°-50°	2721.3	11.8
50°-60°	5376.2	23.3
60°-70°	7513.8	32.6
70°-80°	3630.0	15.7
80°-90°	233.3	1.0
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°	23075.4	100.0
0°-180°	23075.4	100.0



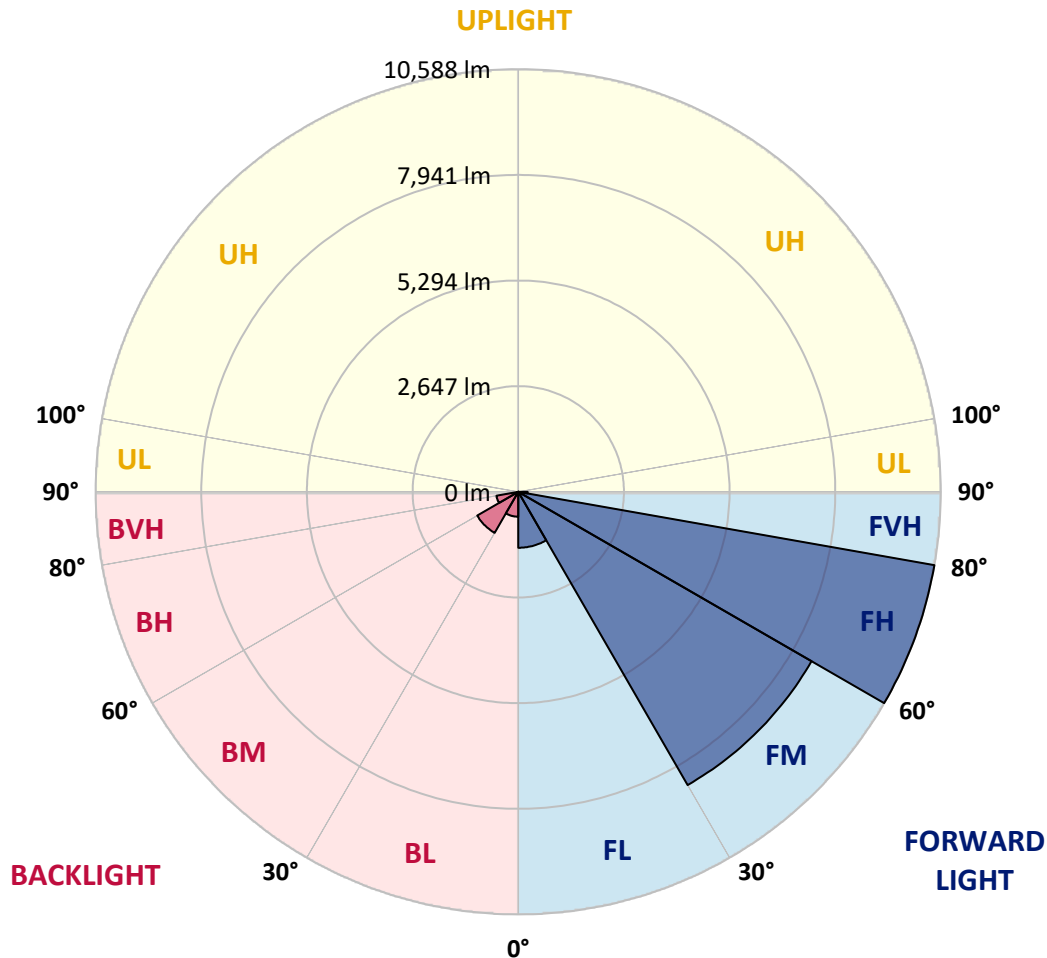
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1402.1	6.1			
FM (30°-60°)	8485.3	36.8			
FH (60°-80°)	10588.4	45.9			G4/12000
FVH (80°-90°)	231.4	1.0			G3/500
BL (0°-30°)	624.2	2.7	B2/1000		
BM (30°-60°)	1186.7	5.1	B2/2500		
BH (60°-80°)	555.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2568.5	2565.2	2550.1	2543.6	2506.8	2485.2	2476.5	2449.5	2410.6	2371.5	2328.3
5°	2860.6	2859.5	2831.3	2804.3	2735.1	2670.2	2658.3	2595.6	2507.9	2425.7	2343.4
7.5°	3159.3	3145.2	3117.1	3065.1	2964.5	2860.6	2850.9	2762.1	2637.8	2518.7	2400.8
10°	3412.4	3403.7	3366.9	3288.0	3170.1	3052.1	3040.2	2930.9	2790.3	2644.2	2493.8
12.5°	3609.3	3602.8	3554.1	3455.7	3330.2	3207.9	3191.7	3094.3	2943.9	2780.6	2603.1
15°	3729.4	3726.1	3666.7	3561.7	3438.3	3332.3	3318.3	3232.7	3093.2	2922.3	2722.1
17.5°	3757.5	3758.6	3696.9	3590.9	3489.2	3413.5	3402.7	3337.7	3220.9	3051.0	2841.1
20°	3694.8	3707.7	3652.6	3560.6	3497.9	3457.8	3449.1	3410.2	3311.7	3151.6	2936.3
22.5°	3606.0	3612.5	3574.6	3513.0	3487.1	3494.6	3490.3	3468.6	3385.3	3238.2	3030.4
25°	3552.0	3552.0	3529.3	3477.3	3494.6	3541.1	3542.2	3537.9	3471.9	3344.3	3145.2
27.5°	3549.8	3543.3	3517.3	3478.4	3526.0	3597.4	3601.7	3630.9	3589.8	3473.0	3288.0
30°	3636.3	3628.8	3573.6	3522.7	3583.3	3660.1	3670.9	3734.8	3714.3	3612.5	3447.0
32.5°	3838.6	3811.6	3689.4	3606.0	3651.5	3743.4	3757.5	3859.2	3891.6	3784.6	3600.6
35°	4115.7	4030.2	3853.8	3764.0	3768.3	3864.6	3877.6	4026.9	4123.2	3942.5	3719.7
37.5°	4497.5	4455.3	4168.7	3928.4	3947.9	4094.0	4131.9	4294.2	4267.1	4029.0	3854.9
40°	5335.0	5268.9	4963.8	4389.4	4120.0	4280.1	4292.0	4378.6	4380.7	4224.9	4136.2
42.5°	6475.3	6448.3	6126.9	5225.7	4458.6	4404.5	4426.2	4572.2	4735.5	4638.2	4633.9
45°	7737.9	7723.8	7383.1	6335.7	5143.4	4812.4	4839.4	5035.3	5347.9	5369.5	5506.9
47.5°	8753.8	8747.3	8551.5	7574.5	6191.8	5503.8	5512.4	5720.1	6269.7	6541.3	6760.9
50°	9680.0	9711.3	9556.7	8915.0	7620.0	6586.7	6566.2	6704.6	7587.5	8032.2	8304.8
52.5°	10967.4	11011.8	10577.9	10165.7	9118.5	7930.5	7914.2	8059.2	9171.5	9504.7	9553.4
55°	12104.5	12028.8	11685.8	11566.8	10945.8	9590.2	9585.8	9713.5	10703.5	10845.2	10935.0
57.5°	12606.5	12577.3	12742.8	13015.5	12859.7	11551.7	11542.0	11444.5	12074.3	12089.3	12365.3
60°	12923.5	12959.2	13466.6	14307.4	14695.7	13662.5	13599.8	13005.8	13383.4	13349.8	13645.2
62.5°	12685.5	12755.9	13669.0	15070.1	16069.8	15505.1	15416.3	14436.1	14502.1	14386.3	14661.1
65°	11421.8	11531.1	13027.4	14926.2	16751.4	16945.0	16855.2	15698.7	15390.3	15199.9	15047.4
67.5°	9274.2	9339.1	10901.4	13674.4	16444.1	17804.1	17785.7	16805.5	16061.1	15062.5	13878.8
69°	7664.3	7728.1	9232.0	12356.6	15767.9	17988.0	18023.8	17160.3	15933.5	14227.2	12297.1
70°	6491.5	6559.7	7960.8	11227.1	14983.6	17902.6	17966.4	17126.8	15567.7	13260.0	10909.0
72.5°	3404.8	3463.2	4901.1	7734.6	12214.9	16438.7	16632.4	15679.2	13196.2	9630.2	6450.4
75°	1070.0	1103.6	1914.0	4043.1	8363.2	12781.9	12826.2	12299.3	9370.5	5297.1	2686.4
77.5°	407.9	398.1	637.3	1489.8	4228.1	8048.4	8319.9	7686.0	4917.4	1872.8	619.9
80°	219.7	220.7	331.1	616.7	1809.0	4136.2	4365.5	3725.1	1747.3	584.3	142.8
82.5°	95.2	99.6	186.1	326.7	830.9	1525.5	1640.2	1365.4	667.5	392.7	53.0
85°	20.6	22.7	89.8	177.5	338.6	428.4	449.0	442.5	425.2	305.1	20.6
87.5°	0.0	0.0	40.1	63.8	85.5	97.3	85.5	111.4	234.7	205.6	10.8
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°	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2314.2	2294.8	2261.2	2224.4	2198.5	2171.4	2149.7	2140.0	2129.2	2121.7	2131.4
5°	2309.9	2272.0	2207.1	2144.3	2099.0	2062.2	2031.9	2020.0	2008.0	1999.4	1998.3
7.5°	2347.8	2294.8	2195.2	2103.2	2032.9	1983.2	1942.1	1924.8	1910.7	1904.2	1898.8
10°	2420.3	2352.1	2219.0	2099.0	2008.0	1923.6	1835.0	1766.8	1722.4	1701.8	1694.3
12.5°	2514.3	2428.9	2264.5	2121.7	1989.7	1827.3	1639.2	1476.8	1371.9	1337.2	1316.7
15°	2624.7	2518.7	2323.9	2150.9	1922.5	1626.1	1307.0	1094.9	997.5	978.0	956.4
17.5°	2730.7	2613.9	2395.4	2156.3	1775.4	1299.4	957.5	813.6	775.7	788.7	792.0
20°	2823.8	2708.0	2465.7	2108.7	1508.2	974.8	741.1	705.4	719.4	744.4	748.7
22.5°	2918.0	2798.9	2530.6	1983.2	1166.3	740.0	667.5	676.2	690.3	715.1	719.4
25°	3032.7	2909.3	2591.2	1752.7	875.3	629.6	634.0	647.0	661.0	683.8	685.9
27.5°	3164.7	3048.9	2631.2	1453.0	649.2	578.9	592.9	612.4	626.5	648.1	652.4
30°	3339.9	3232.7	2644.2	1142.5	544.2	533.4	539.9	563.7	584.3	603.7	607.0
32.5°	3504.4	3414.6	2601.0	862.3	504.2	491.2	491.2	505.3	529.0	547.5	551.8
35°	3655.8	3597.4	2462.5	630.8	473.9	452.3	441.5	441.5	456.6	471.7	476.0
37.5°	3856.0	3853.8	2238.5	503.1	444.6	419.8	397.0	379.8	374.4	377.6	379.8
40°	4199.0	4202.2	1946.4	451.1	419.8	386.2	351.7	320.3	291.0	281.3	280.2
42.5°	4734.5	4685.8	1640.2	426.3	398.1	351.7	299.7	257.5	212.0	198.0	196.9
45°	5584.9	5296.0	1315.6	403.5	375.4	312.7	247.8	190.4	153.6	142.8	142.8
47.5°	6823.7	6097.7	1019.2	378.7	345.1	268.3	187.1	137.4	112.5	107.1	108.2
50°	8104.7	6883.2	781.1	347.3	308.3	221.8	138.5	99.6	85.5	85.5	86.5
52.5°	9240.7	7458.8	609.1	313.7	262.9	174.2	105.0	77.9	71.4	70.3	71.4
55°	10304.2	7829.8	466.3	274.8	208.9	129.9	80.0	63.8	59.5	57.4	56.3
57.5°	11329.9	8013.8	349.4	221.8	151.5	94.1	63.8	54.1	49.7	46.5	45.5
60°	12012.6	7864.5	240.2	163.4	105.0	68.2	53.0	46.5	41.1	37.8	36.8
62.5°	12397.7	7456.6	154.7	117.9	74.6	50.9	42.2	38.9	31.4	28.1	28.1
65°	12241.9	6783.6	108.2	84.4	54.1	37.8	31.4	31.4	22.7	18.4	17.3
67.5°	10848.4	5731.0	82.3	62.8	38.9	28.1	23.8	27.0	14.1	8.7	8.7
69°	9333.7	4749.6	70.3	51.9	32.4	22.7	20.6	24.9	9.8	6.5	5.4
70°	8112.3	4097.2	63.8	45.5	27.0	19.5	18.4	23.8	9.8	5.4	4.3
72.5°	4853.5	2285.0	48.7	32.4	17.3	15.2	15.2	27.0	9.8	5.4	4.3
75°	1961.6	805.0	35.7	22.7	12.9	12.9	18.4	34.7	8.7	4.3	3.3
77.5°	444.6	176.3	20.6	14.1	8.7	12.9	21.6	27.0	5.4	2.1	0.0
80°	108.2	43.3	12.9	8.7	5.4	9.8	16.2	15.2	1.1	0.0	0.0
82.5°	35.7	15.2	5.4	4.3	1.1	3.3	7.5	4.3	0.0	0.0	0.0
85°	15.2	8.7	2.1	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)