

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: P383296

Luminaire Tested: **GLEON-SA6A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383296
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-SA6A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 18819.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

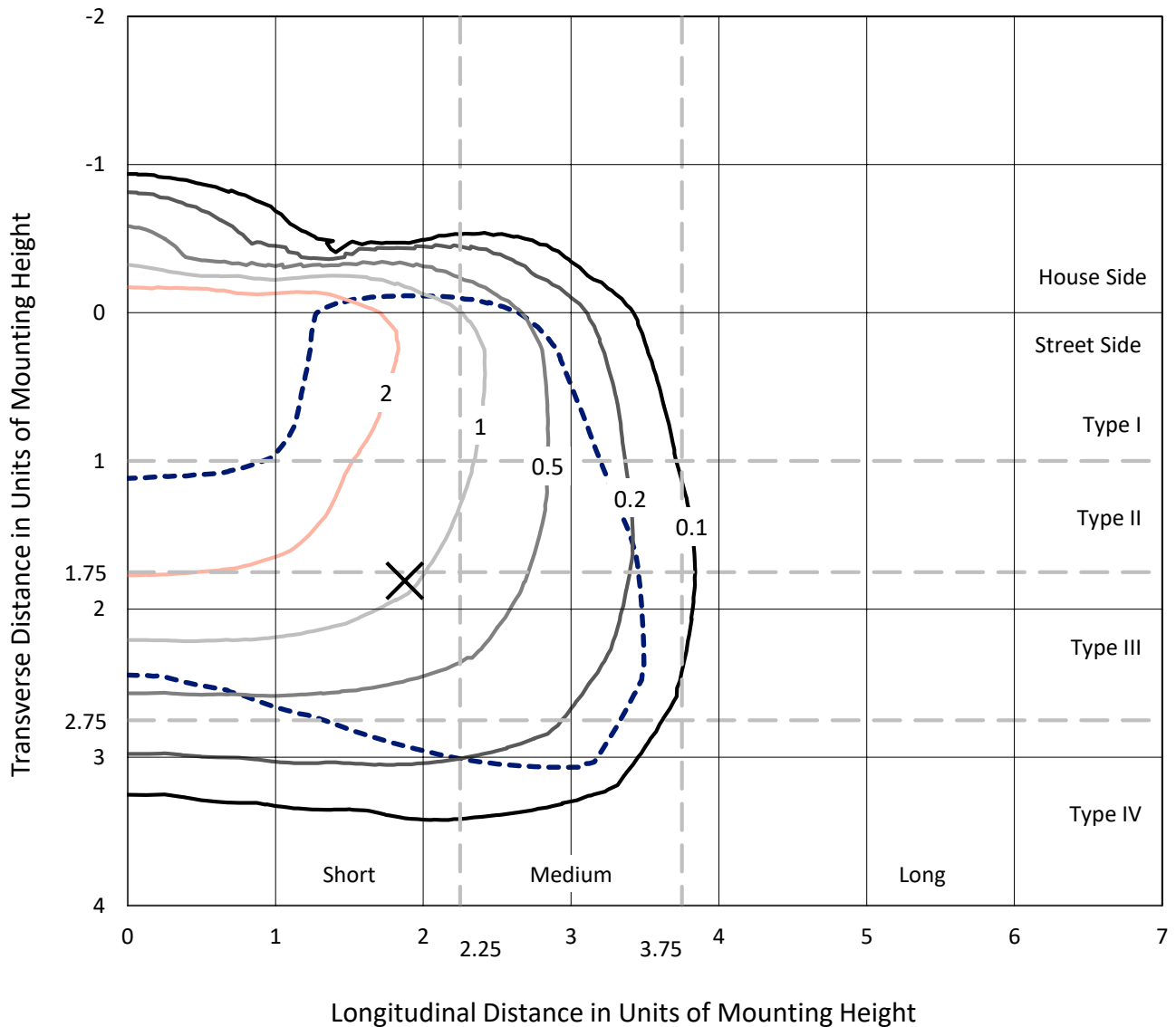
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA6A-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

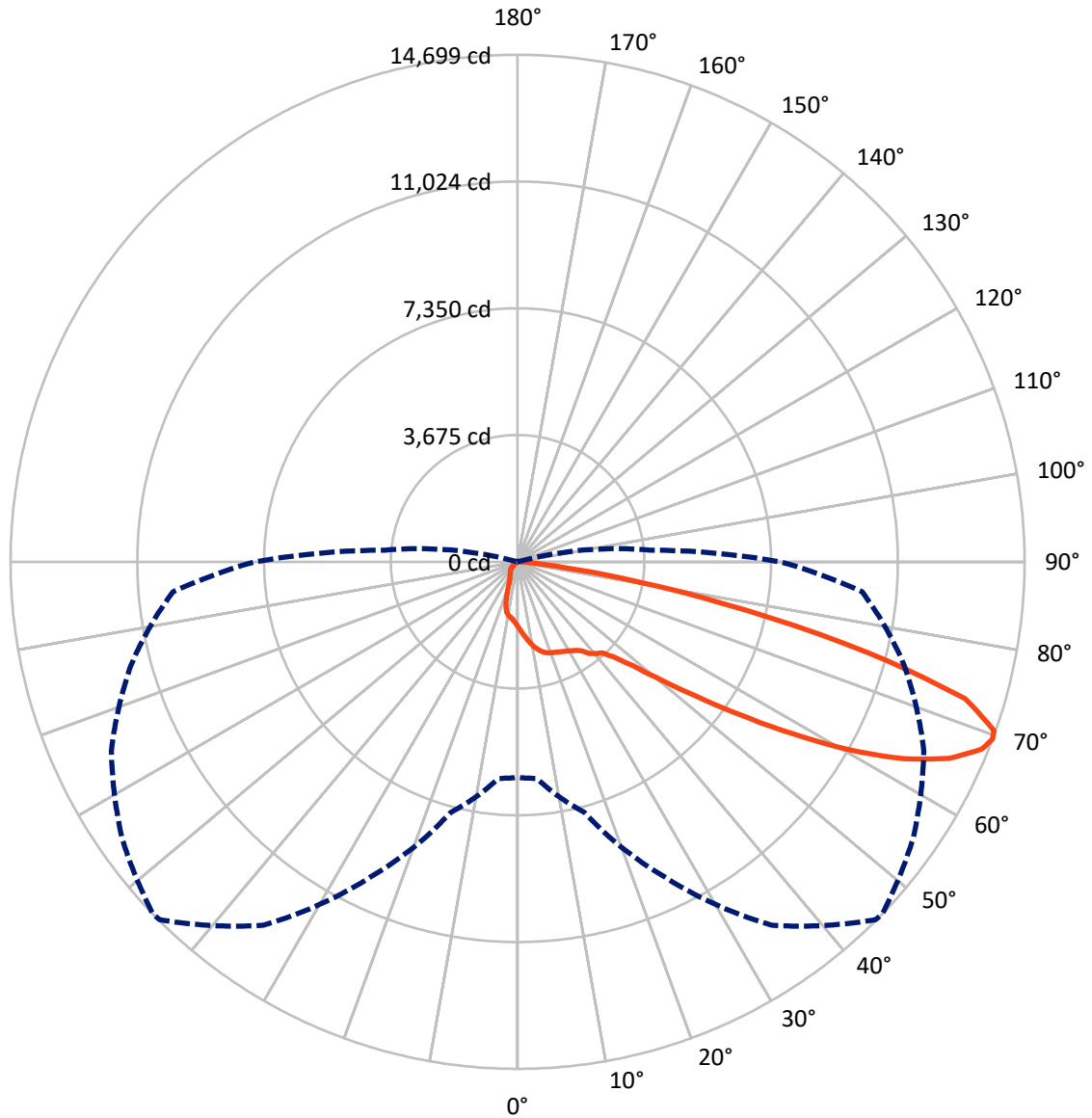
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P383296
CATALOG NUMBER: GLEON-SA6A-735-U-T4W-HSS

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
House Side	Lumens	1931.4	0.0	1931.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16887.8	0.0	16887.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	18819.1	0.0	18819.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.0
10°-20°	569.4	3.0
20°-30°	895.5	4.8
30°-40°	1284.1	6.8
40°-50°	2219.4	11.8
50°-60°	4384.6	23.3
60°-70°	6127.9	32.6
70°-80°	2960.4	15.7
80°-90°	190.3	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°	18819.1	100.0
0°-180°	18819.1	100.0



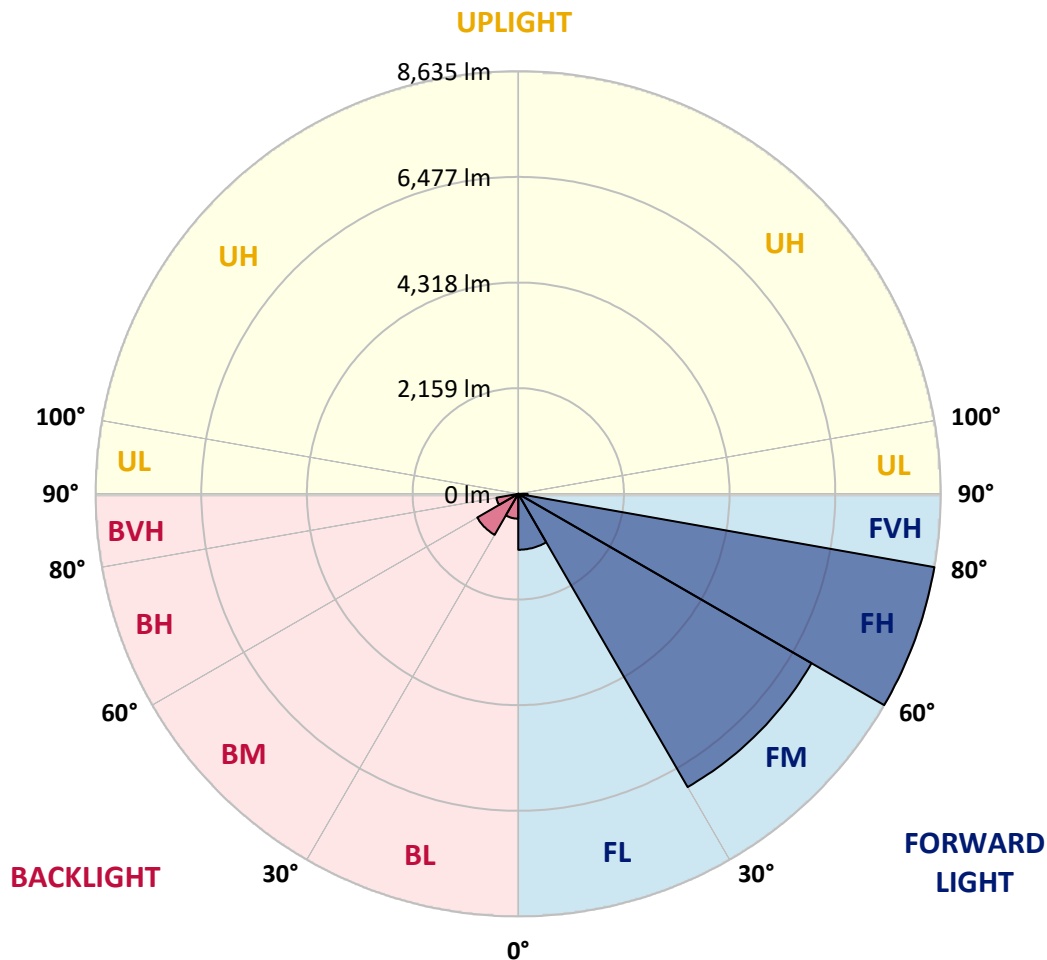
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.5	6.1			
FM (30°-60°)	6920.2	36.8			
FH (60°-80°)	8635.4	45.9			G4/12000
FVH (80°-90°)	188.7	1.0			G2/225
BL (0°-30°)	509.0	2.7	B2/1000		
BM (30°-60°)	967.9	5.1	B1/1000		
BH (60°-80°)	452.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6
2.5°	2094.8	2092.1	2079.7	2074.5	2044.5	2026.8	2019.7	1997.7	1965.9	1934.2	1898.9
5°	2333.0	2332.0	2309.1	2287.0	2230.6	2177.7	2168.0	2116.8	2045.3	1978.2	1911.2
7.5°	2576.5	2565.0	2542.1	2499.7	2417.6	2333.0	2325.0	2252.7	2151.2	2054.2	1957.9
10°	2783.0	2775.9	2745.9	2681.5	2585.3	2489.1	2479.4	2390.4	2275.6	2156.5	2033.8
12.5°	2943.6	2938.3	2898.5	2818.3	2715.9	2616.2	2602.9	2523.6	2400.9	2267.7	2123.0
15°	3041.5	3038.9	2990.4	2904.8	2804.1	2717.7	2706.2	2636.5	2522.6	2383.3	2220.1
17.5°	3064.4	3065.4	3015.0	2928.6	2845.6	2783.8	2775.0	2722.1	2626.8	2488.3	2317.0
20°	3013.3	3023.9	2978.8	2903.8	2852.7	2820.0	2813.0	2781.2	2700.9	2570.3	2394.7
22.5°	2940.9	2946.2	2915.3	2865.1	2843.8	2850.1	2846.5	2828.8	2760.9	2640.9	2471.5
25°	2896.8	2896.8	2878.3	2835.9	2850.1	2888.0	2888.8	2885.3	2831.5	2727.4	2565.0
27.5°	2895.1	2889.8	2868.5	2836.7	2875.6	2933.8	2937.4	2961.2	2927.7	2832.4	2681.5
30°	2965.6	2959.4	2914.4	2873.0	2922.4	2985.1	2993.8	3045.9	3029.1	2946.2	2811.2
32.5°	3130.7	3108.6	3008.8	2940.9	2978.0	3053.0	3064.4	3147.4	3173.9	3086.5	2936.5
35°	3356.5	3286.8	3142.9	3069.7	3073.3	3151.8	3162.4	3284.2	3362.7	3215.3	3033.6
37.5°	3668.0	3633.6	3399.8	3203.9	3219.7	3338.9	3369.8	3502.1	3480.1	3285.9	3143.9
40°	4350.9	4297.1	4048.3	3579.8	3360.0	3490.6	3500.3	3570.9	3572.7	3445.6	3373.2
42.5°	5280.9	5258.9	4996.8	4261.8	3636.2	3592.0	3609.7	3728.9	3862.1	3782.6	3779.2
45°	6310.7	6299.2	6021.2	5167.1	4194.8	3924.7	3946.8	4106.5	4361.5	4379.2	4491.2
47.5°	7139.2	7133.9	6974.2	6177.4	5049.7	4488.6	4495.6	4665.0	5113.3	5334.8	5513.8
50°	7894.5	7920.1	7793.9	7270.6	6214.4	5371.8	5355.1	5468.0	6188.0	6550.6	6773.0
52.5°	8944.5	8980.7	8626.9	8290.7	7436.5	6467.7	6454.5	6572.7	7479.8	7751.5	7791.3
55°	9871.9	9810.1	9530.4	9433.3	8926.8	7821.3	7817.7	7921.9	8729.2	8844.8	8918.0
57.5°	10281.3	10257.5	10392.4	10614.8	10487.7	9420.9	9413.0	9333.6	9847.1	9859.5	10084.5
60°	10539.8	10569.0	10982.8	11668.4	11985.1	11142.4	11091.3	10606.9	10914.9	10887.5	11128.4
62.5°	10345.7	10403.1	11147.7	12290.4	13105.8	12645.1	12572.7	11773.4	11827.2	11732.7	11956.9
65°	9315.1	9404.3	10624.5	12173.1	13661.6	13819.5	13746.3	12803.1	12551.6	12396.3	12271.8
67.5°	7563.6	7616.5	8890.7	11152.2	13411.0	14520.1	14505.1	13705.7	13098.7	12284.2	11319.0
69°	6250.7	6302.7	7529.2	10077.5	12859.5	14670.1	14699.3	13995.1	12994.5	11603.1	10028.9
70°	5294.2	5349.8	6492.4	9156.3	12219.9	14600.4	14652.5	13967.8	12696.3	10814.2	8896.8
72.5°	2776.8	2824.5	3997.1	6308.0	9961.9	13406.6	13564.5	12787.2	10762.2	7853.9	5260.6
75°	872.7	900.0	1560.9	3297.4	6820.7	10424.2	10460.3	10030.7	7642.1	4320.1	2190.9
77.5°	332.7	324.7	519.7	1215.0	3448.3	6563.9	6785.4	6268.3	4010.3	1527.4	505.6
80°	179.1	180.0	270.0	502.9	1475.3	3373.2	3560.3	3038.0	1425.0	476.5	116.4
82.5°	77.7	81.1	151.7	266.5	677.6	1244.2	1337.7	1113.6	544.4	320.3	43.2
85°	16.8	18.5	73.2	144.7	276.2	349.4	366.2	360.9	346.7	248.8	16.8
87.5°	0.0	0.0	32.6	52.1	69.7	79.4	69.7	90.9	191.4	167.7	8.8
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°	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6
2.5°	1887.4	1871.5	1844.1	1814.1	1792.9	1770.9	1753.3	1745.3	1736.5	1730.3	1738.3
5°	1883.9	1852.9	1800.0	1748.8	1711.8	1681.8	1657.0	1647.3	1637.7	1630.6	1629.7
7.5°	1914.7	1871.5	1790.3	1715.4	1658.0	1617.4	1583.8	1569.8	1558.3	1553.0	1548.5
10°	1973.9	1918.2	1809.7	1711.8	1637.7	1568.8	1496.5	1440.9	1404.7	1387.9	1381.8
12.5°	2050.6	1980.9	1846.8	1730.3	1622.7	1490.3	1336.8	1204.4	1118.8	1090.6	1073.8
15°	2140.6	2054.2	1895.3	1754.1	1568.0	1326.2	1065.9	893.0	813.5	797.7	780.0
17.5°	2227.1	2131.8	1953.5	1758.6	1448.0	1059.7	780.9	663.5	632.6	643.2	645.8
20°	2303.0	2208.5	2010.9	1719.7	1230.0	795.0	604.4	575.3	586.8	607.1	610.6
22.5°	2379.7	2282.7	2063.8	1617.4	951.2	603.5	544.4	551.5	562.9	583.2	586.8
25°	2473.3	2372.7	2113.2	1429.5	713.8	513.6	517.1	527.6	539.1	557.6	559.4
27.5°	2580.9	2486.5	2145.9	1185.0	529.4	472.1	483.6	499.4	510.9	528.6	532.1
30°	2723.8	2636.5	2156.5	931.7	443.8	435.0	440.3	459.7	476.5	492.3	495.0
32.5°	2858.0	2784.8	2121.2	703.2	411.2	400.6	400.6	412.0	431.5	446.5	450.0
35°	2981.5	2933.8	2008.2	514.4	386.5	368.8	360.0	360.0	372.3	384.7	388.3
37.5°	3144.7	3142.9	1825.6	410.3	362.7	342.3	323.8	309.7	305.3	308.0	309.7
40°	3424.5	3427.1	1587.4	368.0	342.3	315.0	286.7	261.2	237.4	229.4	228.5
42.5°	3861.2	3821.5	1337.7	347.7	324.7	286.7	244.4	210.0	173.0	161.4	160.6
45°	4554.7	4319.1	1073.0	329.1	306.2	255.0	202.1	155.3	125.3	116.4	116.4
47.5°	5565.1	4973.0	831.2	308.8	281.5	218.8	152.7	112.1	91.8	87.4	88.2
50°	6609.8	5613.6	637.1	283.3	251.5	180.9	112.9	81.1	69.7	69.7	70.6
52.5°	7536.2	6083.0	496.8	255.9	214.4	142.1	85.6	63.5	58.2	57.4	58.2
55°	8403.6	6385.7	380.3	224.1	170.3	105.9	65.3	52.1	48.5	46.8	45.9
57.5°	9240.1	6535.6	285.0	180.9	123.5	76.8	52.1	44.2	40.6	37.9	37.1
60°	9796.9	6413.9	195.9	133.2	85.6	55.6	43.2	37.9	33.5	30.9	30.0
62.5°	10111.0	6081.2	126.1	96.1	60.9	41.5	34.4	31.8	25.6	22.9	22.9
65°	9984.0	5532.4	88.2	68.8	44.2	30.9	25.6	25.6	18.5	15.0	14.2
67.5°	8847.5	4673.9	67.1	51.1	31.8	22.9	19.4	22.1	11.5	7.1	7.1
69°	7612.1	3873.6	57.4	42.4	26.5	18.5	16.8	20.3	7.9	5.3	4.4
70°	6615.9	3341.5	52.1	37.1	22.1	15.8	15.0	19.4	7.9	4.4	3.5
72.5°	3958.2	1863.6	39.7	26.5	14.2	12.4	12.4	22.1	7.9	4.4	3.5
75°	1599.7	656.5	29.2	18.5	10.6	10.6	15.0	28.2	7.1	3.5	2.6
77.5°	362.7	143.8	16.8	11.5	7.1	10.6	17.6	22.1	4.4	1.8	0.0
80°	88.2	35.3	10.6	7.1	4.4	7.9	13.2	12.4	0.8	0.0	0.0
82.5°	29.2	12.4	4.4	3.5	0.8	2.6	6.1	3.5	0.0	0.0	0.0
85°	12.4	7.1	1.8	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.9	2.6	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)