

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642615

Luminaire Tested: GWS-SA6D-730-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24434.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

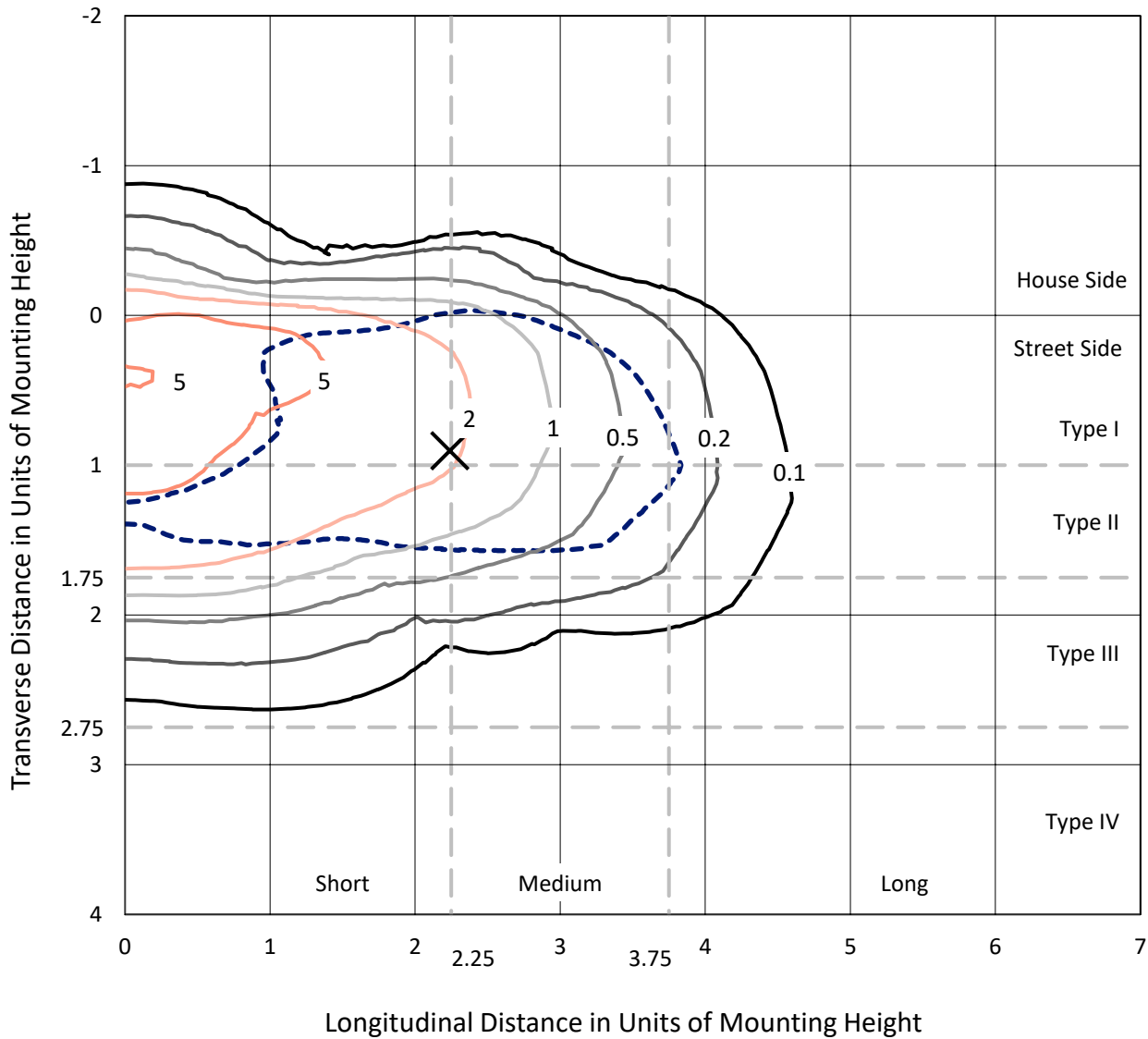
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

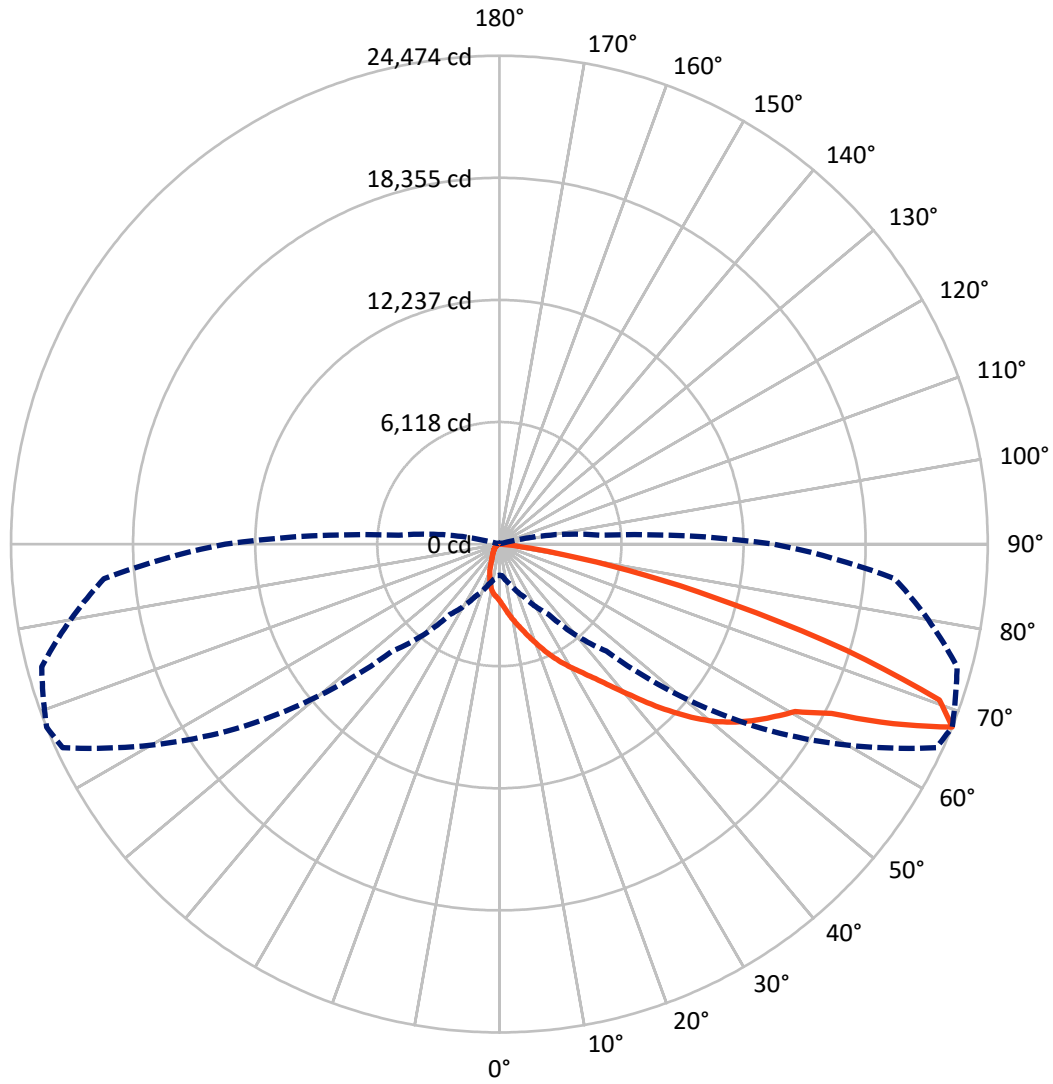
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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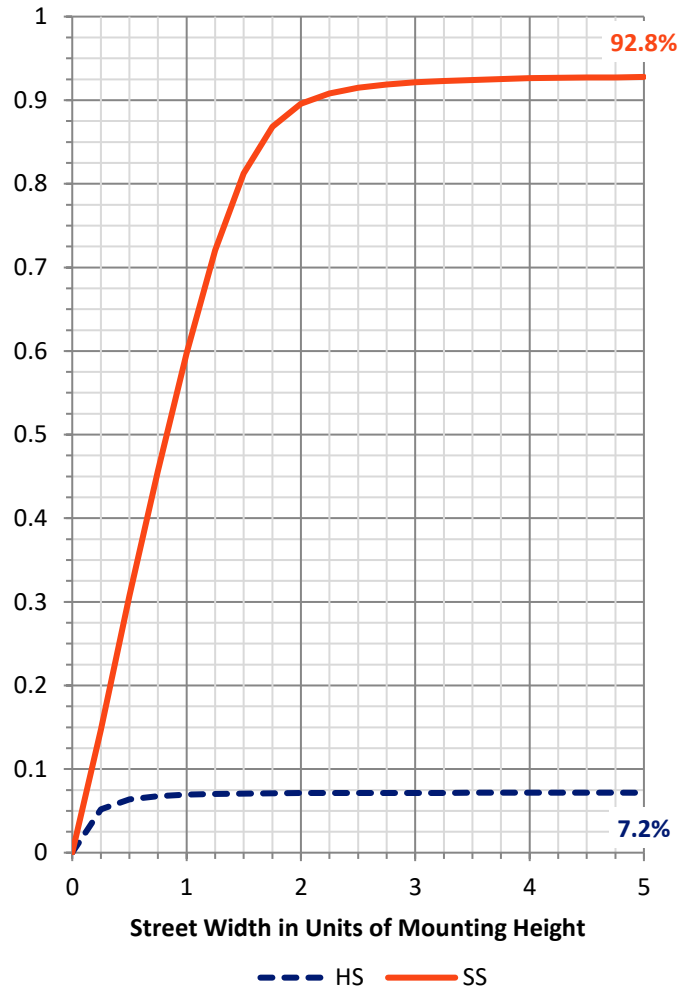
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.4	0.0	1764.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22669.7	0.0	22669.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	24434.1	0.0	24434.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	1.1
10°-20°	796.4	3.3
20°-30°	1368.6	5.6
30°-40°	2379.5	9.7
40°-50°	4152.0	17.0
50°-60°	6262.3	25.6
60°-70°	6279.5	25.7
70°-80°	2770.5	11.3
80°-90°	148.0	0.6
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°	24434.1	100.0
0°-180°	24434.1	100.0

Coefficient of Utilization



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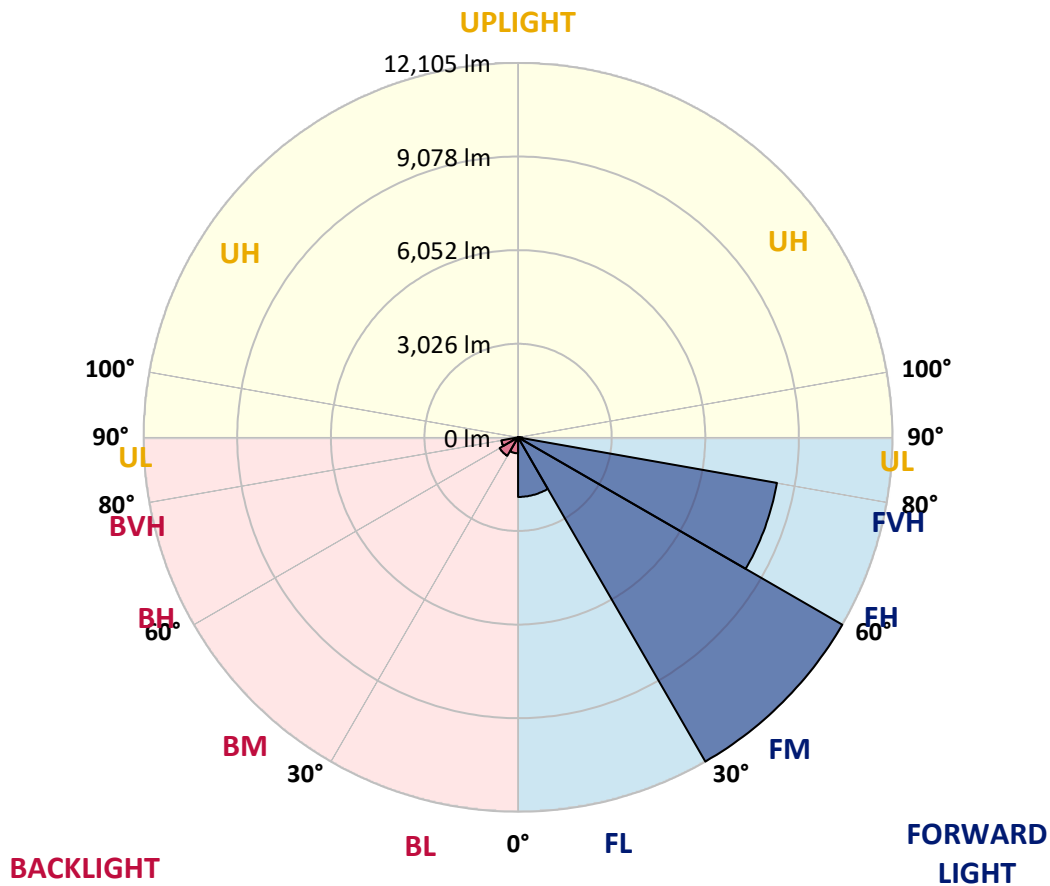
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.1	7.9			
FM (30°-60°)	12104.6	49.5			
FH (60°-80°)	8499.3	34.8			G4/12000
FVH (80°-90°)	139.6	0.6			G2/225
BL (0°-30°)	516.2	2.1	B2/1000		
BM (30°-60°)	689.2	2.8	B1/1000		
BH (60°-80°)	550.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5
2.5°	3311.2	3332.2	3311.2	3315.9	3255.1	3227.0	3166.2	3082.0	3061.0	3007.2	2925.4
5°	3715.7	3734.4	3713.4	3708.7	3638.6	3587.1	3486.6	3341.6	3299.5	3194.3	3032.9
7.5°	3935.5	3947.2	3954.3	3965.9	3940.2	3898.1	3806.9	3626.9	3582.4	3411.7	3184.9
10°	3958.9	3968.3	4003.4	4073.5	4125.0	4150.7	4099.2	3933.2	3863.1	3697.0	3372.0
12.5°	3893.5	3907.5	3963.6	4080.5	4223.2	4354.1	4386.9	4241.9	4178.7	3965.9	3591.8
15°	3806.9	3818.6	3895.8	4054.8	4269.9	4510.8	4646.4	4583.3	4513.1	4291.0	3835.0
17.5°	3673.6	3690.0	3797.6	4012.7	4291.0	4634.7	4927.0	4948.1	4899.0	4658.1	4103.9
20°	3598.8	3610.5	3706.4	3928.5	4277.0	4725.9	5188.9	5387.7	5333.9	5081.4	4412.6
22.5°	3662.0	3671.3	3734.4	3907.5	4230.2	4777.4	5432.1	5827.3	5796.9	5535.0	4737.6
25°	3994.0	4024.4	3987.0	4017.4	4251.2	4805.4	5628.6	6266.9	6274.0	6009.7	5074.4
27.5°	4667.5	4627.7	4538.9	4386.9	4414.9	4880.3	5796.9	6680.8	6741.6	6472.7	5373.7
30°	5352.6	5329.2	5275.5	5039.3	4842.8	5046.3	5939.6	7104.1	7200.0	6928.7	5640.2
32.5°	6122.0	6145.3	6049.5	5766.5	5432.1	5383.0	6086.9	7506.3	7686.4	7445.5	5953.6
35°	7041.0	7048.0	6858.6	6545.2	6166.4	5939.6	6351.1	7950.6	8282.7	8104.9	6372.2
37.5°	7936.6	7978.7	7875.8	7382.4	7045.6	6631.7	6788.4	8521.2	8988.9	8918.7	6898.3
40°	8729.3	8794.8	8762.0	8285.0	7843.0	7494.6	7466.5	9190.0	9842.4	9921.9	7592.8
42.5°	9360.7	9402.8	9428.5	9089.4	8698.9	8502.5	8303.7	9966.3	10850.2	11175.3	8444.0
45°	10027.1	10041.1	10094.9	9865.8	9524.3	9540.7	9292.8	10908.7	11911.9	12564.3	9421.5
47.5°	10876.0	10922.7	10897.0	10656.1	10347.5	10532.2	10314.7	11879.1	12959.5	14046.8	10422.3
50°	11909.5	11958.6	11935.3	11654.6	11310.9	11388.1	11252.4	12821.5	13969.7	15445.2	11254.8
52.5°	12442.7	12482.4	12772.4	12898.7	12718.6	12227.6	12052.2	13857.4	14823.2	16595.7	12019.4
55°	12185.5	12213.5	12844.9	13378.1	14037.5	13546.4	12856.6	14657.2	15576.2	17493.7	12587.7
57.5°	11119.1	11271.1	12129.3	13032.0	14418.6	14848.9	14161.4	15527.0	16301.1	18118.0	13146.5
60°	8932.7	8925.7	10155.7	11776.2	13675.0	15206.7	16004.1	16703.3	17028.3	18597.4	13894.8
62.5°	4936.4	4980.8	6617.7	8752.7	11607.9	14280.7	17386.1	18735.4	18686.2	19434.5	15066.4
65°	2457.7	2546.5	3435.1	5013.6	7723.8	11802.0	17624.6	21836.1	21695.8	21405.8	17486.6
67.5°	1559.7	1594.8	2085.9	2913.7	4293.3	7585.8	16139.7	24148.8	24473.8	23744.2	19888.2
70°	1010.2	1068.7	1449.8	1992.3	2591.0	3909.8	11823.0	22649.9	23395.8	23487.0	18391.6
72.5°	549.5	591.6	926.0	1421.8	1870.7	1954.9	6641.1	16997.9	18197.5	19923.3	14388.2
75°	313.3	343.7	507.4	965.8	1372.6	1190.3	2944.1	11378.7	12143.4	14238.6	10310.1
77.5°	189.4	215.1	285.3	470.0	860.5	795.1	1113.1	6926.4	7412.8	8495.4	5411.1
80°	86.5	102.9	180.1	259.6	470.0	376.5	425.6	3229.3	3334.6	3486.6	1791.2
82.5°	39.8	46.8	81.8	154.3	266.6	217.5	163.7	746.0	1049.9	993.8	456.0
85°	4.7	4.7	30.4	63.1	74.8	56.1	67.8	168.4	212.8	299.3	131.0
87.5°	0.0	0.0	2.3	2.3	4.7	7.0	14.0	21.0	30.4	49.1	32.7
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°	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5	2843.5
2.5°	2887.9	2822.5	2764.0	2677.5	2619.0	2553.5	2509.1	2455.3	2434.3	2417.9	2394.5
5°	2953.4	2848.2	2705.5	2546.5	2415.6	2291.6	2177.1	2102.2	2036.8	2027.4	1994.7
7.5°	3061.0	2904.3	2663.5	2403.9	2181.7	1976.0	1814.6	1683.7	1618.2	1597.1	1559.7
10°	3203.6	2988.5	2600.3	2202.8	1882.4	1636.9	1454.5	1307.2	1204.3	1166.9	1138.8
12.5°	3362.6	3065.7	2499.8	1954.9	1590.1	1309.5	1078.0	921.3	855.9	832.5	811.4
15°	3545.0	3138.1	2340.7	1707.0	1304.8	963.4	799.7	731.9	703.9	696.8	689.8
17.5°	3720.4	3184.9	2151.3	1449.8	1003.2	748.3	671.1	645.4	638.4	631.4	626.7
20°	3919.2	3217.7	1929.2	1206.6	778.7	633.7	596.3	577.6	563.6	549.5	547.2
22.5°	4122.6	3217.7	1688.3	968.1	652.4	568.2	526.1	491.1	465.3	451.3	446.6
25°	4316.7	3173.2	1449.8	774.0	575.2	505.1	451.3	411.6	376.5	360.1	355.4
27.5°	4454.7	3058.6	1241.7	654.8	521.5	449.0	383.5	339.1	311.0	294.6	292.3
30°	4541.2	2887.9	1049.9	584.6	474.7	390.5	325.0	287.6	266.6	254.9	250.2
32.5°	4606.7	2677.5	879.2	535.5	430.3	339.1	282.9	252.5	233.8	224.5	222.1
35°	4737.6	2478.7	753.0	491.1	383.5	297.0	247.9	224.5	210.5	198.8	196.4
37.5°	4920.0	2312.7	652.4	451.3	339.1	264.2	224.5	203.4	191.7	180.1	177.7
40°	5188.9	2207.5	577.6	411.6	299.3	238.5	205.8	187.1	170.7	159.0	156.7
42.5°	5602.8	2158.4	528.5	371.8	264.2	215.1	189.4	166.0	149.7	138.0	135.6
45°	6096.2	2184.1	486.4	332.1	240.9	198.8	168.4	145.0	128.6	116.9	114.6
47.5°	6624.7	2275.3	451.3	294.6	217.5	182.4	149.7	123.9	109.9	98.2	95.9
50°	7176.6	2424.9	420.9	259.6	198.8	163.7	128.6	107.6	93.5	84.2	81.8
52.5°	7656.0	2628.4	390.5	233.8	182.4	145.0	112.2	93.5	79.5	70.2	67.8
55°	8114.3	2820.1	367.1	210.5	163.7	126.3	98.2	79.5	67.8	58.5	56.1
57.5°	8612.4	3023.6	339.1	189.4	147.3	112.2	86.5	67.8	58.5	49.1	46.8
60°	9337.3	3325.2	297.0	173.0	128.6	98.2	74.8	60.8	51.4	39.8	37.4
62.5°	10382.5	3874.7	250.2	149.7	109.9	84.2	63.1	51.4	42.1	32.7	28.1
65°	12337.5	4810.1	205.8	123.9	88.9	70.2	53.8	42.1	32.7	23.4	21.0
67.5°	13745.2	5053.3	166.0	100.6	72.5	53.8	44.4	32.7	23.4	16.4	14.0
70°	12017.1	3629.2	128.6	81.8	60.8	42.1	35.1	25.7	16.4	11.7	9.4
72.5°	9054.3	2371.1	95.9	63.1	46.8	35.1	25.7	21.0	14.0	9.4	7.0
75°	6381.5	1370.3	70.2	46.8	32.7	25.7	21.0	16.4	11.7	7.0	7.0
77.5°	3271.4	565.9	49.1	32.7	23.4	16.4	14.0	9.4	9.4	7.0	4.7
80°	993.8	187.1	28.1	21.0	16.4	11.7	7.0	7.0	7.0	4.7	2.3
82.5°	226.8	60.8	16.4	16.4	11.7	9.4	7.0	2.3	2.3	0.0	0.0
85°	58.5	18.7	14.0	11.7	11.7	9.4	4.7	2.3	0.0	0.0	0.0
87.5°	21.0	11.7	11.7	11.7	9.4	7.0	4.7	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)