

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: P638215

Luminaire Tested: GWS-SA4E-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638215  
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-SA4E-735-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22609 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

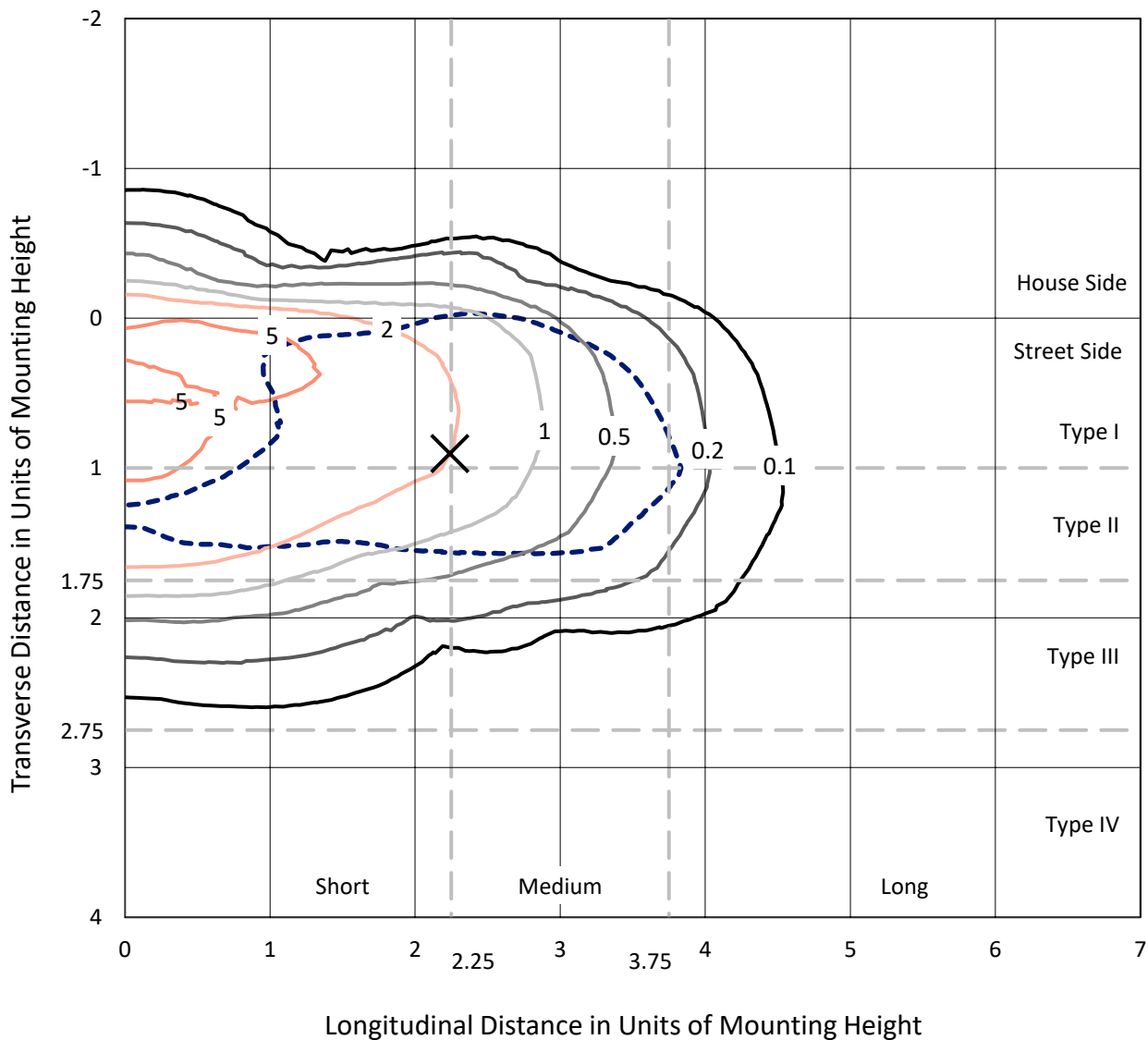
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

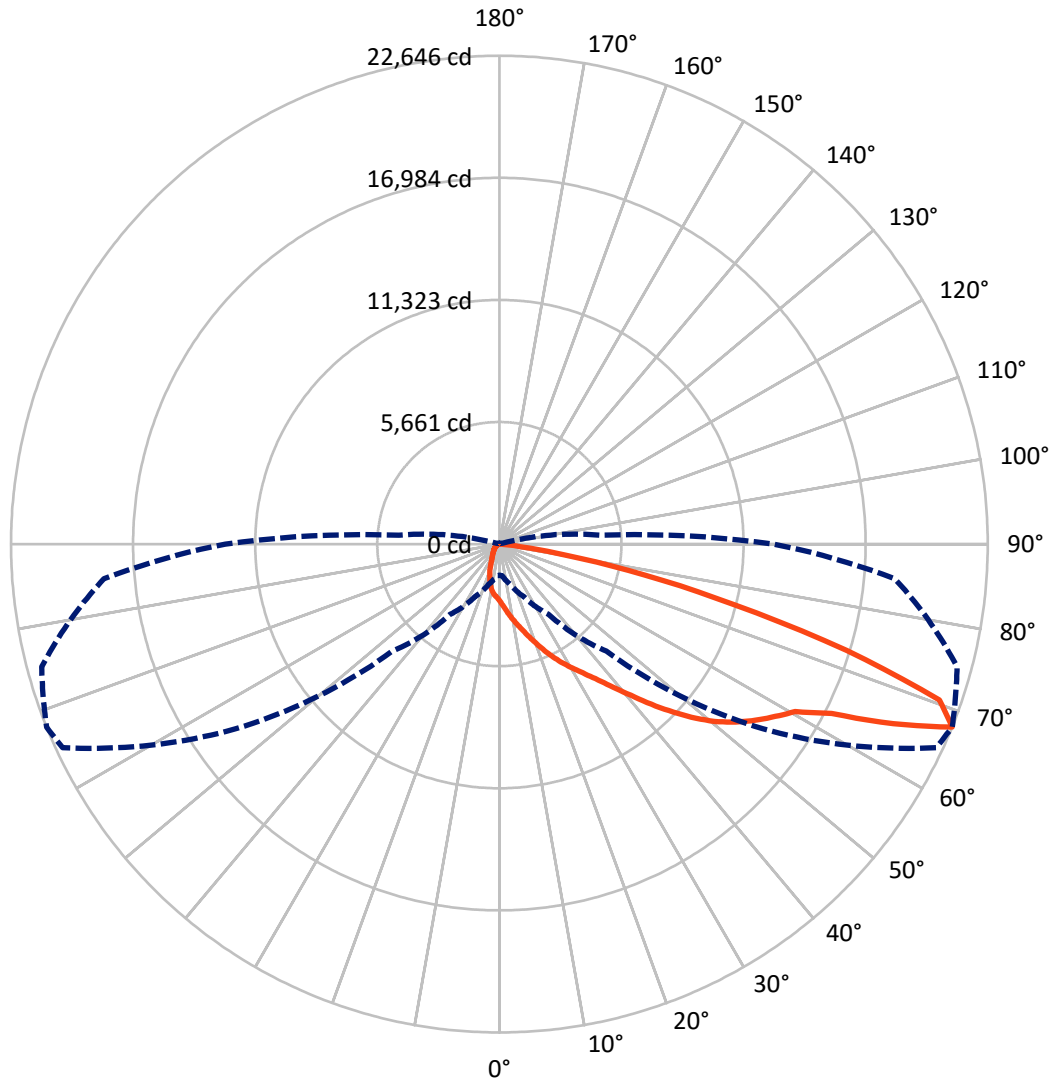
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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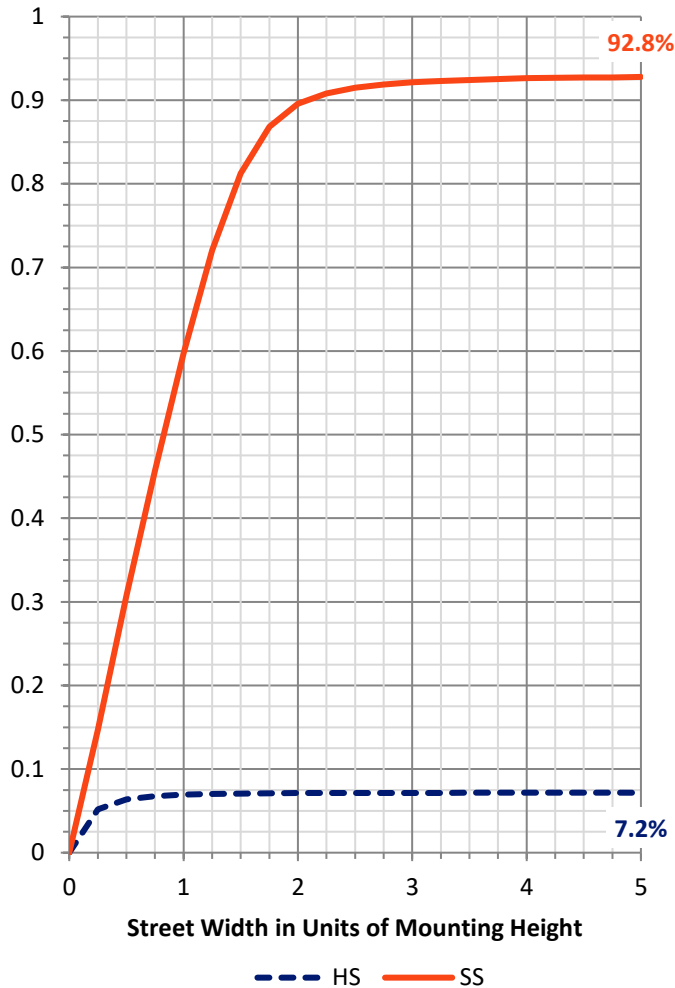
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1632.6	0.0	1632.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20976.4	0.0	20976.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	22609.0	0.0	22609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.1
10°-20°	736.9	3.3
20°-30°	1266.4	5.6
30°-40°	2201.8	9.7
40°-50°	3841.9	17.0
50°-60°	5794.5	25.6
60°-70°	5810.4	25.7
70°-80°	2563.5	11.3
80°-90°	136.9	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°	22609.0	100.0
0°-180°	22609.0	100.0

**Coefficient of Utilization**



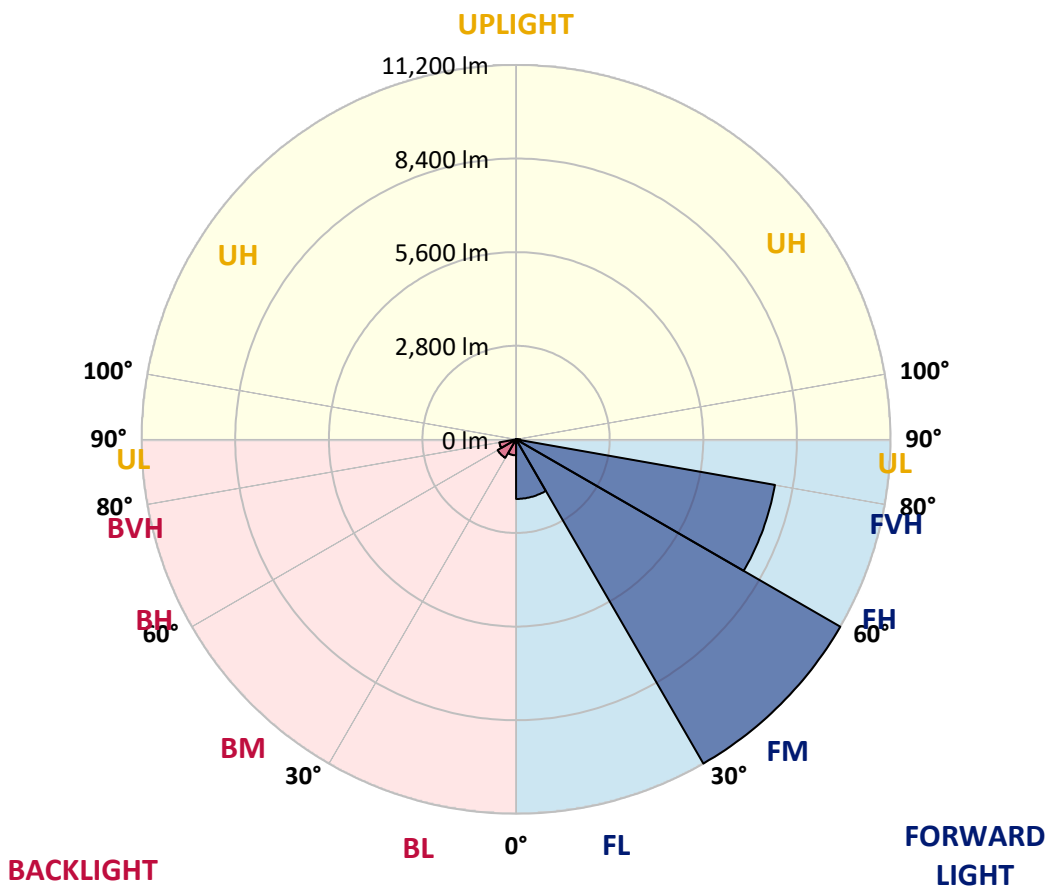
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.3	7.9			
FM (30°-60°)	11200.4	49.5			
FH (60°-80°)	7864.4	34.8			G4/12000
FVH (80°-90°)	129.2	0.6			G2/225
BL (0°-30°)	477.6	2.1	B1/500		
BM (30°-60°)	637.7	2.8	B1/1000		
BH (60°-80°)	509.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.7	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°	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	3063.9	3083.3	3063.9	3068.2	3011.9	2986.0	2929.7	2851.8	2832.3	2782.6	2706.8
5°	3438.2	3455.5	3436.0	3431.7	3366.8	3319.2	3226.1	3092.0	3053.0	2955.7	2806.4
7.5°	3641.6	3652.4	3658.9	3669.7	3645.9	3607.0	3522.6	3356.0	3314.9	3156.9	2947.0
10°	3663.2	3671.9	3704.3	3769.2	3816.8	3840.6	3793.0	3639.4	3574.5	3420.9	3120.1
12.5°	3602.6	3615.6	3667.5	3775.7	3907.7	4028.9	4059.2	3925.0	3866.6	3669.7	3323.5
15°	3522.6	3533.4	3604.8	3751.9	3951.0	4173.9	4299.4	4240.9	4176.0	3970.5	3548.5
17.5°	3399.2	3414.4	3513.9	3713.0	3970.5	4288.5	4559.0	4578.5	4533.0	4310.2	3797.4
20°	3330.0	3340.8	3429.5	3635.1	3957.5	4372.9	4801.3	4985.3	4935.5	4701.8	4083.0
22.5°	3388.4	3397.1	3455.5	3615.6	3914.2	4420.5	5026.4	5392.1	5363.9	5121.6	4383.7
25°	3695.7	3723.8	3689.2	3717.3	3933.7	4446.5	5208.1	5798.8	5805.3	5560.8	4695.3
27.5°	4318.8	4282.0	4199.8	4059.2	4085.1	4515.7	5363.9	6181.8	6238.1	5989.2	4972.3
30°	4952.8	4931.2	4881.4	4662.9	4481.1	4669.4	5495.9	6573.5	6662.2	6411.2	5219.0
32.5°	5664.7	5686.3	5597.6	5335.8	5026.4	4980.9	5632.2	6945.6	7112.2	6889.4	5508.9
35°	6515.0	6521.5	6346.3	6056.3	5705.8	5495.9	5876.7	7356.7	7664.0	7499.5	5896.2
37.5°	7343.7	7382.7	7287.5	6830.9	6519.4	6136.4	6281.3	7884.7	8317.4	8252.5	6383.0
40°	8077.3	8137.8	8107.5	7666.1	7257.2	6934.8	6908.8	8503.5	9107.2	9180.8	7025.7
42.5°	8661.5	8700.4	8724.2	8410.5	8049.1	7867.4	7683.5	9221.9	10039.8	10340.5	7813.3
45°	9278.1	9291.1	9340.9	9128.8	8812.9	8828.1	8598.7	10093.9	11022.1	11625.8	8717.7
47.5°	10063.6	10106.8	10083.0	9860.2	9574.6	9745.5	9544.3	10991.8	11991.5	12997.6	9643.8
50°	11019.9	11065.4	11043.7	10784.1	10466.0	10537.4	10411.9	11863.8	12926.2	14291.5	10414.1
52.5°	11513.3	11550.1	11818.4	11935.2	11768.6	11314.2	11151.9	12822.3	13716.0	15356.1	11121.6
55°	11275.3	11301.2	11885.4	12378.8	12989.0	12534.6	11896.3	13562.3	14412.7	16187.0	11647.4
57.5°	10288.6	10429.2	11223.3	12058.5	13341.6	13739.8	13103.6	14367.3	15083.5	16764.7	12164.6
60°	8265.5	8259.0	9397.1	10896.6	12653.6	14070.8	14808.7	15455.6	15756.4	17208.3	12857.0
62.5°	4567.7	4608.8	6123.4	8098.9	10740.8	13214.0	16087.4	17335.9	17290.5	17982.9	13941.0
65°	2274.1	2356.3	3178.5	4639.1	7146.8	10920.4	16308.1	20205.0	20075.2	19806.9	16180.5
67.5°	1443.2	1475.7	1930.1	2696.0	3972.6	7019.2	14934.2	22345.0	22645.7	21970.7	18402.6
70°	934.7	988.8	1341.5	1843.5	2397.4	3617.8	10939.9	20958.0	21648.3	21732.6	17017.8
72.5°	508.5	547.4	856.8	1315.6	1731.0	1808.9	6145.0	15728.3	16838.3	18435.1	13313.5
75°	289.9	318.1	469.5	893.6	1270.1	1101.3	2724.2	10528.8	11236.3	13175.0	9539.9
77.5°	175.3	199.1	264.0	434.9	796.3	735.7	1029.9	6409.0	6859.1	7860.9	5006.9
80°	80.1	95.2	166.6	240.2	434.9	348.4	393.8	2988.1	3085.5	3226.1	1657.4
82.5°	36.8	43.3	75.7	142.8	246.7	201.2	151.5	690.2	971.5	919.6	421.9
85°	4.3	4.3	28.1	58.4	69.2	51.9	62.7	155.8	196.9	277.0	121.2
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	13.0	19.5	28.1	45.4	30.3
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°	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2672.2	2611.6	2557.5	2477.5	2423.4	2362.8	2321.7	2271.9	2252.5	2237.3	2215.7
5°	2732.8	2635.4	2503.5	2356.3	2235.1	2120.5	2014.4	1945.2	1884.6	1876.0	1845.7
7.5°	2832.3	2687.4	2464.5	2224.3	2018.8	1828.4	1679.1	1557.9	1497.3	1477.8	1443.2
10°	2964.3	2765.3	2406.1	2038.2	1741.8	1514.6	1345.8	1209.5	1114.3	1079.7	1053.7
12.5°	3111.5	2836.7	2313.0	1808.9	1471.3	1211.7	997.5	852.5	791.9	770.3	750.8
15°	3280.2	2903.7	2165.9	1579.5	1207.4	891.5	740.0	677.3	651.3	644.8	638.3
17.5°	3442.5	2947.0	1990.6	1341.5	928.2	692.4	621.0	597.2	590.7	584.2	579.9
20°	3626.4	2977.3	1785.1	1116.5	720.5	586.4	551.8	534.4	521.5	508.5	506.3
22.5°	3814.7	2977.3	1562.2	895.8	603.7	525.8	486.8	454.4	430.6	417.6	413.3
25°	3994.3	2936.2	1341.5	716.2	532.3	467.4	417.6	380.8	348.4	333.2	328.9
27.5°	4121.9	2830.2	1148.9	605.8	482.5	415.4	354.9	313.7	287.8	272.6	270.5
30°	4202.0	2672.2	971.5	540.9	439.2	361.3	300.8	266.1	246.7	235.8	231.5
32.5°	4262.6	2477.5	813.6	495.5	398.1	313.7	261.8	233.7	216.4	207.7	205.6
35°	4383.7	2293.6	696.7	454.4	354.9	274.8	229.4	207.7	194.7	183.9	181.8
37.5°	4552.5	2139.9	603.7	417.6	313.7	244.5	207.7	188.2	177.4	166.6	164.4
40°	4801.3	2042.6	534.4	380.8	277.0	220.7	190.4	173.1	158.0	147.1	145.0
42.5°	5184.3	1997.1	489.0	344.0	244.5	199.1	175.3	153.6	138.5	127.7	125.5
45°	5640.9	2020.9	450.1	307.3	222.9	183.9	155.8	134.2	119.0	108.2	106.0
47.5°	6129.9	2105.3	417.6	272.6	201.2	168.8	138.5	114.7	101.7	90.9	88.7
50°	6640.5	2243.8	389.5	240.2	183.9	151.5	119.0	99.5	86.5	77.9	75.7
52.5°	7084.1	2432.0	361.3	216.4	168.8	134.2	103.9	86.5	73.6	64.9	62.7
55°	7508.2	2609.5	339.7	194.7	151.5	116.8	90.9	73.6	62.7	54.1	51.9
57.5°	7969.1	2797.7	313.7	175.3	136.3	103.9	80.1	62.7	54.1	45.4	43.3
60°	8639.8	3076.8	274.8	160.1	119.0	90.9	69.2	56.3	47.6	36.8	34.6
62.5°	9607.0	3585.3	231.5	138.5	101.7	77.9	58.4	47.6	38.9	30.3	26.0
65°	11415.9	4450.8	190.4	114.7	82.2	64.9	49.8	38.9	30.3	21.6	19.5
67.5°	12718.5	4675.9	153.6	93.0	67.1	49.8	41.1	30.3	21.6	15.1	13.0
70°	11119.5	3358.1	119.0	75.7	56.3	38.9	32.5	23.8	15.1	10.8	8.7
72.5°	8378.0	2194.0	88.7	58.4	43.3	32.5	23.8	19.5	13.0	8.7	6.5
75°	5904.9	1268.0	64.9	43.3	30.3	23.8	19.5	15.1	10.8	6.5	6.5
77.5°	3027.1	523.6	45.4	30.3	21.6	15.1	13.0	8.7	8.7	6.5	4.3
80°	919.6	173.1	26.0	19.5	15.1	10.8	6.5	6.5	6.5	4.3	2.2
82.5°	209.9	56.3	15.1	15.1	10.8	8.7	6.5	2.2	2.2	0.0	0.0
85°	54.1	17.3	13.0	10.8	10.8	8.7	4.3	2.2	0.0	0.0	0.0
87.5°	19.5	10.8	10.8	10.8	8.7	6.5	4.3	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)