

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: P643004

Luminaire Tested: GWS-SA6E-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26592.4 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

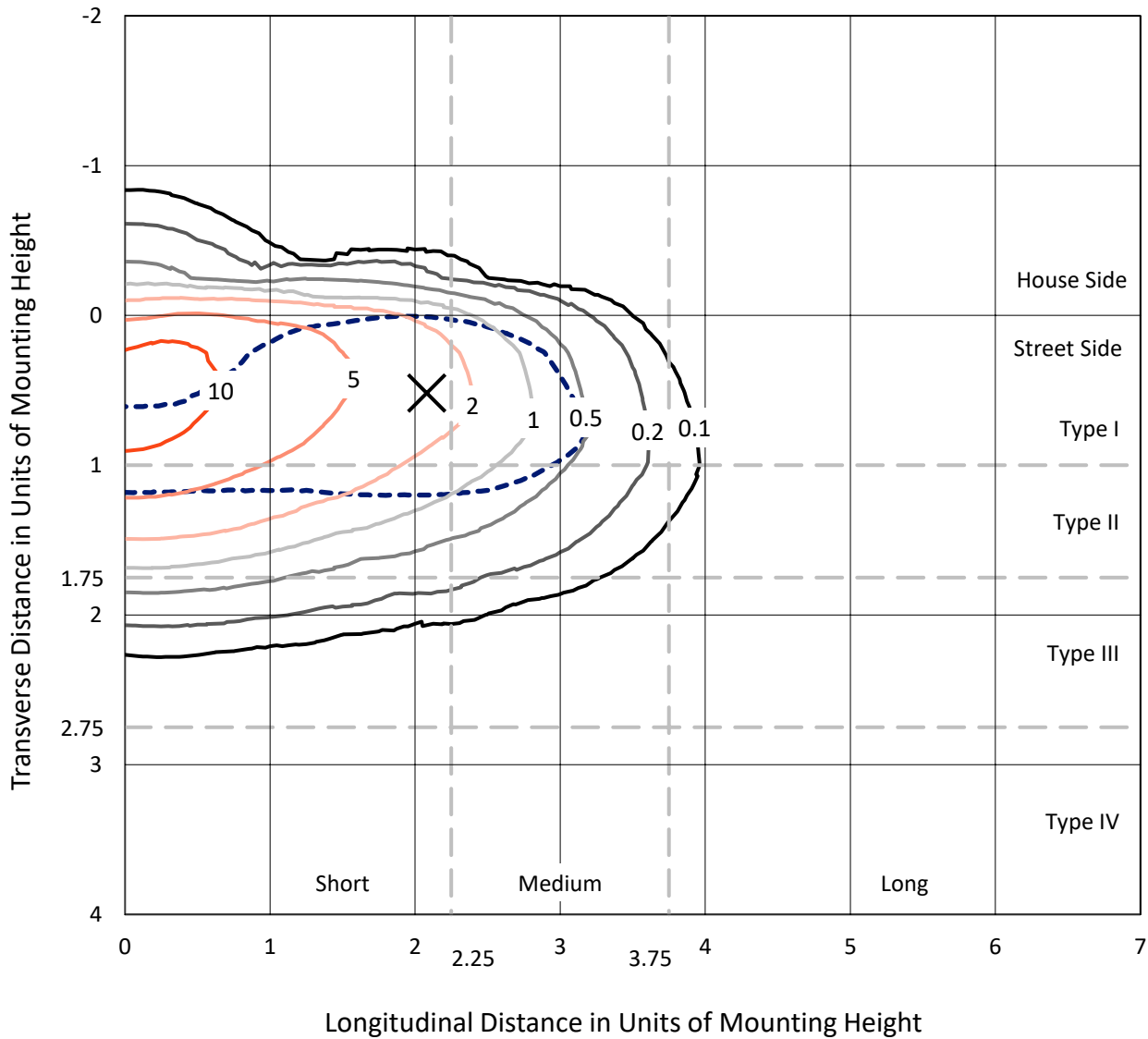
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

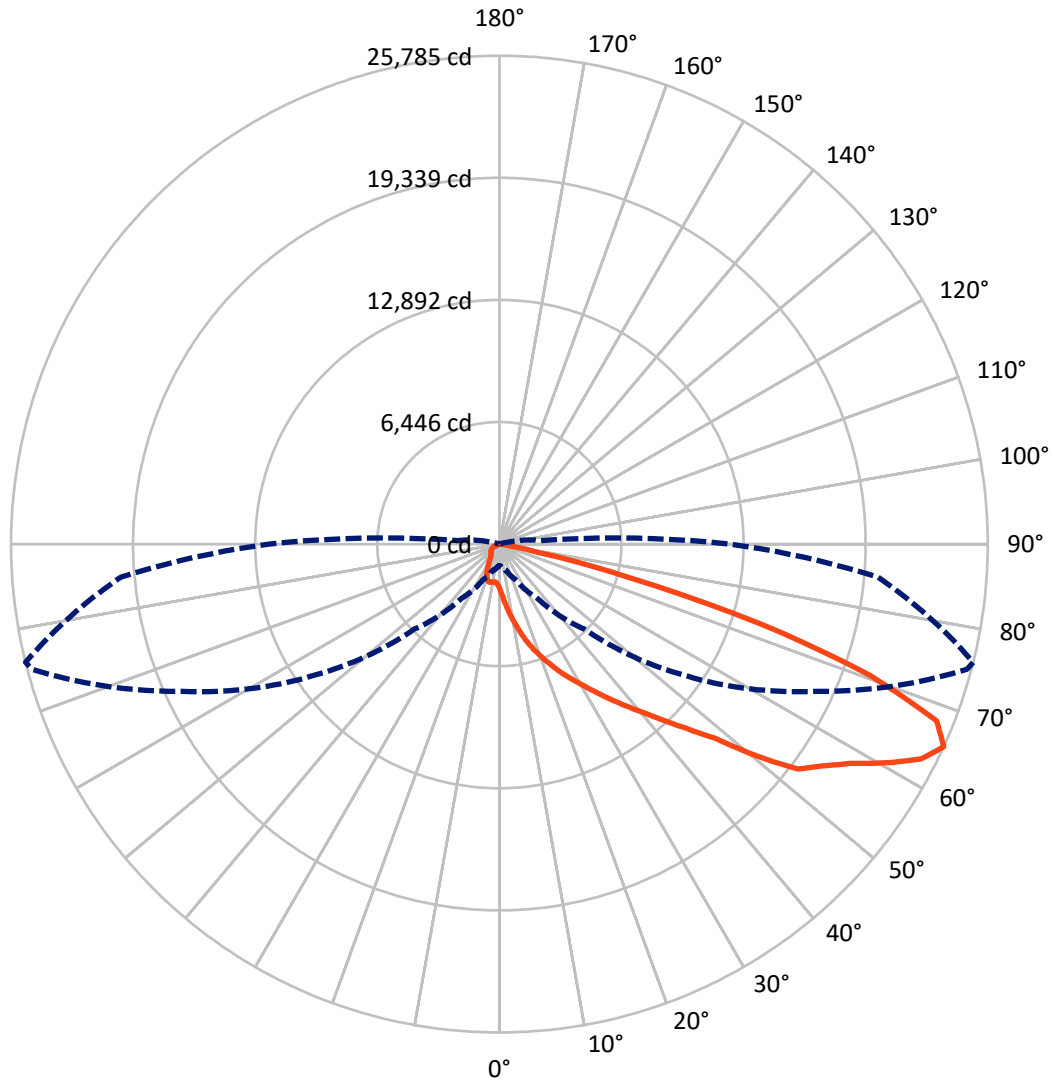
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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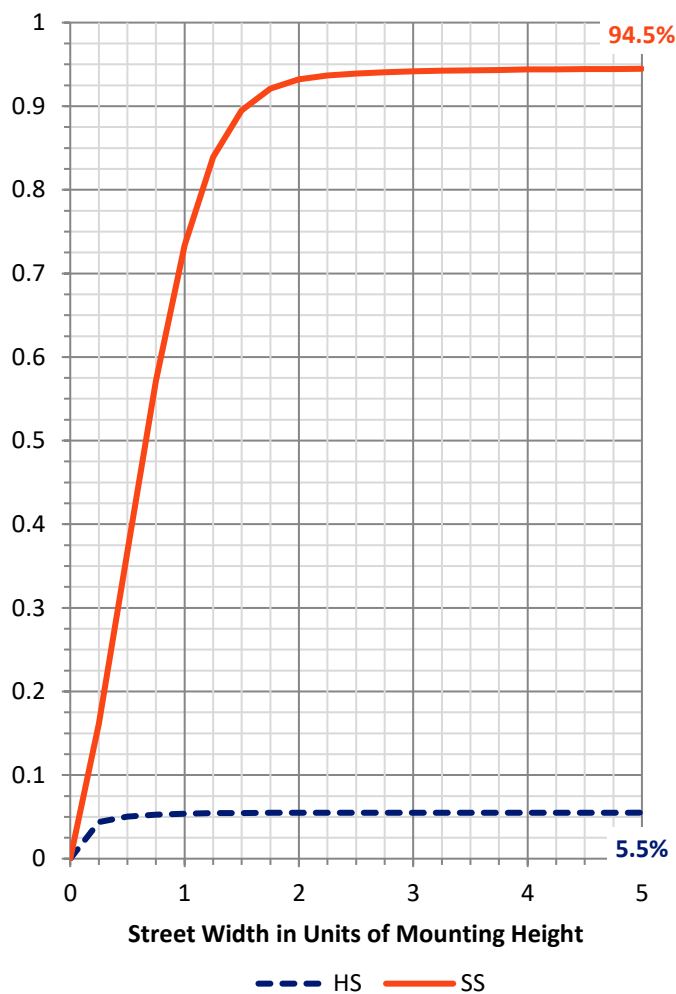
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1470.4	0.0	1470.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	25122.0	0.0	25122.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	26592.4	0.0	26592.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.1
10°-20°	1086.8	4.1
20°-30°	2217.3	8.3
30°-40°	3943.5	14.8
40°-50°	5829.5	21.9
50°-60°	6674.3	25.1
60°-70°	5092.2	19.1
70°-80°	1426.4	5.4
80°-90°	35.9	0.1
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°	26592.4	100.0
0°-180°	26592.4	100.0

Coefficient of Utilization



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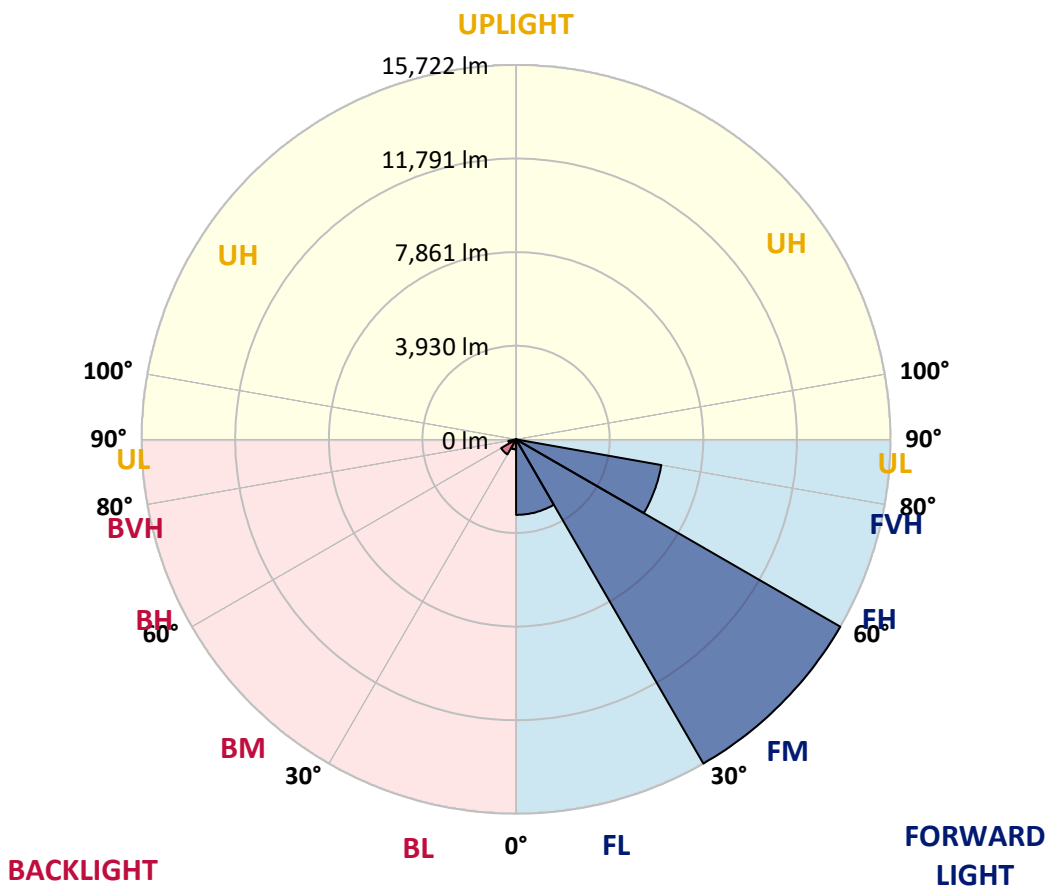
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.9	11.9			
FM (30°-60°)	15721.9	59.1			
FH (60°-80°)	6195.4	23.3			G3/7500
FVH (80°-90°)	33.8	0.1			G1/100
BL (0°-30°)	419.6	1.6	B1/500		
BM (30°-60°)	725.5	2.7	B1/1000		
BH (60°-80°)	323.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4
2.5°	3628.5	3682.9	3640.3	3569.4	3432.3	3299.9	3129.7	2895.7	2709.0	2685.3	2510.4
5°	4900.3	4895.5	4803.3	4711.2	4567.0	4340.0	3997.3	3562.3	3143.9	3108.5	2716.1
7.5°	5656.7	5663.8	5611.8	5540.9	5399.0	5165.0	4808.1	4283.3	3671.1	3600.1	2997.4
10°	6292.6	6290.2	6252.4	6219.3	6091.6	5935.6	5552.7	4975.9	4238.4	4127.3	3311.8
12.5°	6770.1	6786.6	6805.5	6838.6	6784.3	6630.6	6268.9	5640.2	4812.8	4689.9	3671.1
15°	7148.3	7153.0	7223.9	7351.6	7396.5	7316.1	6987.5	6283.1	5380.1	5273.8	4084.7
17.5°	7261.8	7271.2	7391.8	7625.8	7862.2	7907.1	7658.9	6930.8	5938.0	5824.5	4486.6
20°	7500.5	7521.8	7611.6	7817.3	8115.1	8356.2	8259.3	7585.6	6495.9	6346.9	4897.9
22.5°	8252.2	8264.0	8233.3	8259.3	8413.0	8691.9	8751.0	8219.1	7067.9	6909.5	5342.3
25°	9545.2	9550.0	9334.9	9131.6	9015.7	9067.7	9197.8	8803.0	7635.2	7479.2	5756.0
27.5°	10887.9	10904.5	10646.8	10301.7	9888.0	9651.6	9613.8	9337.2	8207.3	8034.7	6164.9
30°	12152.6	12152.6	11880.7	11460.0	10906.8	10445.9	10174.0	9876.2	8819.5	8630.4	6583.3
32.5°	13289.6	13280.1	12932.6	12476.4	11930.4	11424.5	10852.4	10438.8	9500.3	9289.9	7065.6
35°	14228.0	14204.4	13809.6	13372.3	12788.4	12412.6	11774.4	11043.9	10237.8	10027.5	7562.0
37.5°	14937.2	14911.2	14549.5	14086.2	13544.9	13301.4	12767.2	11769.6	11015.6	10824.1	8112.7
40°	15322.5	15270.5	15019.9	14674.8	14220.9	14008.2	13786.0	12670.3	11930.4	11691.6	8762.8
42.5°	15436.0	15374.5	15209.0	15048.3	14774.1	14606.2	14845.0	13686.7	12935.0	12729.3	9505.1
45°	15100.3	15064.8	15050.7	15166.5	15216.1	15263.4	15852.0	14811.9	14043.6	13887.6	10438.8
47.5°	14291.9	14282.4	14407.7	14889.9	15414.7	15913.5	16946.5	16199.5	15480.9	15313.0	11743.6
50°	12797.9	12894.8	13244.7	14090.9	15140.5	16282.2	17970.0	18123.7	17806.9	17561.1	13445.6
52.5°	10462.4	10649.2	11434.0	12719.9	14228.0	16178.2	18442.8	19664.9	19988.7	19733.4	14665.3
55°	8209.7	8384.6	9084.3	10715.3	12727.0	15386.3	18464.1	20196.8	20903.5	20667.2	15490.3
57.5°	6115.3	6276.0	6911.9	8472.0	10684.6	13828.5	17958.2	20492.2	21988.6	21837.3	16792.8
60°	3997.3	4155.7	4730.1	6094.0	8287.7	11559.2	16712.4	20430.8	23466.0	23451.8	18393.1
62.5°	2217.3	2342.6	2758.6	3822.3	5784.3	8951.9	14755.2	19813.8	24896.1	24985.9	19712.2
65°	1134.6	1215.0	1468.0	2101.5	3500.9	6346.9	12180.9	18400.2	25558.0	25784.9	20059.7
67.5°	742.2	768.3	829.7	1092.1	1874.5	3992.5	9167.0	16133.3	24626.6	24891.4	18894.3
70°	602.8	624.1	659.5	728.1	966.8	2120.4	6020.7	12885.4	20577.3	20757.0	15045.9
72.5°	442.0	470.4	539.0	583.9	697.3	1163.0	3132.1	8457.9	14131.1	14447.9	9455.4
75°	326.2	342.8	399.5	461.0	569.7	735.2	1198.5	4446.4	7297.2	7112.8	3971.3
77.5°	196.2	208.0	255.3	295.5	406.6	458.6	418.4	1642.9	2219.7	2087.3	959.7
80°	96.9	108.7	167.8	222.2	260.0	184.4	174.9	458.6	494.0	494.0	241.1
82.5°	33.1	42.5	89.8	146.6	127.6	70.9	82.7	118.2	132.4	139.5	70.9
85°	0.0	0.0	21.3	42.5	18.9	9.5	21.3	26.0	33.1	35.5	23.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.1	9.5	9.5
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°	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4	2354.4
2.5°	2415.9	2304.8	2136.9	1985.6	1869.8	1761.1	1678.3	1612.1	1600.3	1562.5	1567.2
5°	2524.6	2323.7	2014.0	1775.3	1607.4	1494.0	1399.4	1328.5	1297.8	1267.0	1243.4
7.5°	2692.4	2401.7	1966.7	1676.0	1479.8	1304.8	1158.3	1040.1	983.4	947.9	924.3
10°	2898.1	2510.4	1969.1	1616.9	1326.1	1059.0	858.1	728.1	666.6	647.7	645.3
12.5°	3143.9	2647.5	1988.0	1520.0	1103.9	787.2	635.9	576.8	557.9	541.3	541.3
15°	3403.9	2801.2	1988.0	1342.7	841.5	614.6	550.8	513.0	489.3	479.9	475.1
17.5°	3678.2	2945.4	1940.7	1099.2	645.3	541.3	489.3	453.9	434.9	420.8	416.0
20°	3971.3	3082.5	1822.5	841.5	553.1	484.6	434.9	399.5	380.6	366.4	366.4
22.5°	4269.1	3210.1	1631.1	647.7	489.3	430.2	382.9	349.9	330.9	316.8	316.8
25°	4545.7	3295.2	1385.2	534.2	442.0	382.9	340.4	307.3	286.0	276.6	271.8
27.5°	4803.3	3349.6	1113.4	470.4	397.1	342.8	297.8	267.1	250.6	243.5	238.7
30°	5070.5	3363.8	851.0	427.9	359.3	302.6	260.0	236.4	222.2	212.7	212.7
32.5°	5330.5	3347.2	650.1	392.4	326.2	267.1	231.7	210.4	198.6	191.5	189.1
35°	5595.2	3271.6	527.1	361.7	293.1	234.0	205.7	189.1	182.0	172.6	172.6
37.5°	5883.6	3169.9	458.6	330.9	260.0	210.4	184.4	172.6	163.1	156.0	153.7
40°	6242.9	3051.7	420.8	304.9	229.3	189.1	165.5	153.7	146.6	139.5	137.1
42.5°	6668.4	2935.9	401.9	276.6	205.7	167.8	148.9	134.7	127.6	118.2	115.8
45°	7271.2	2909.9	380.6	245.8	184.4	151.3	130.0	115.8	106.4	99.3	96.9
47.5°	8240.4	2983.2	345.1	212.7	163.1	132.4	111.1	99.3	87.5	80.4	75.6
50°	9202.5	2964.3	309.7	184.4	144.2	113.5	94.6	82.7	70.9	63.8	61.5
52.5°	9727.3	2874.4	276.6	163.1	125.3	96.9	80.4	66.2	59.1	52.0	49.6
55°	10202.4	2839.0	243.5	141.8	106.4	85.1	66.2	54.4	49.6	42.5	40.2
57.5°	11133.7	2921.7	215.1	122.9	92.2	73.3	56.7	44.9	40.2	33.1	30.7
60°	12107.7	2931.2	184.4	106.4	80.4	61.5	44.9	35.5	30.7	23.6	21.3
62.5°	12615.9	2692.4	151.3	89.8	66.2	52.0	37.8	28.4	23.6	14.2	14.2
65°	12190.4	2177.1	127.6	73.3	52.0	40.2	28.4	21.3	14.2	7.1	2.4
67.5°	10788.6	1548.3	106.4	59.1	37.8	28.4	21.3	14.2	2.4	0.0	0.0
70°	7900.0	884.1	82.7	42.5	28.4	18.9	14.2	7.1	0.0	0.0	0.0
72.5°	4855.4	472.8	61.5	28.4	21.3	14.2	11.8	4.7	0.0	0.0	0.0
75°	1841.4	226.9	37.8	18.9	16.5	11.8	7.1	2.4	0.0	0.0	0.0
77.5°	498.8	111.1	21.3	14.2	11.8	7.1	4.7	0.0	0.0	0.0	0.0
80°	130.0	52.0	14.2	9.5	7.1	4.7	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	23.6	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
85°	18.9	9.5	4.7	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	2.4	2.4	2.4	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)