

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: P632852

Luminaire Tested: GWS-SA2D-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-750-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8995.3 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

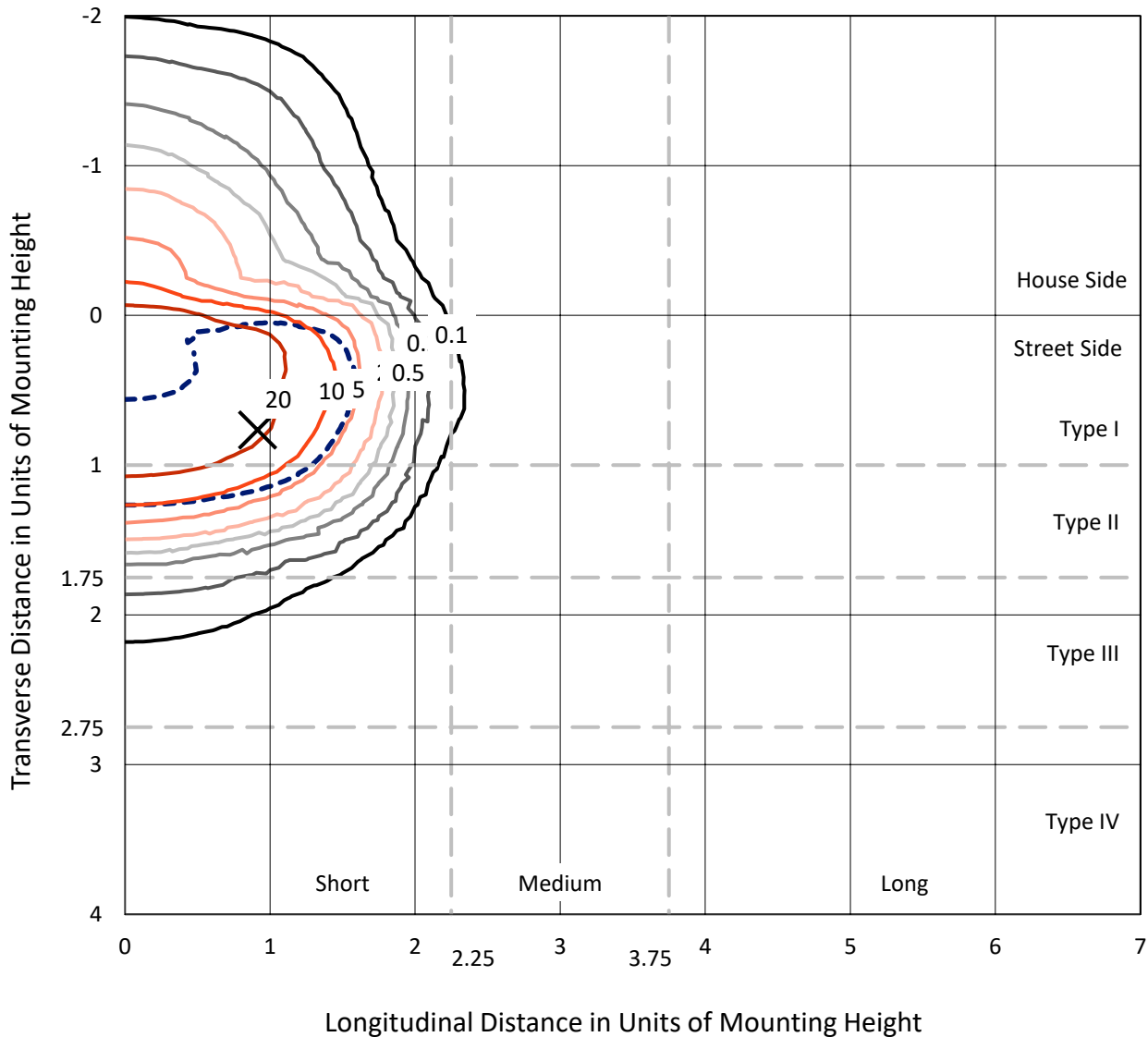
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

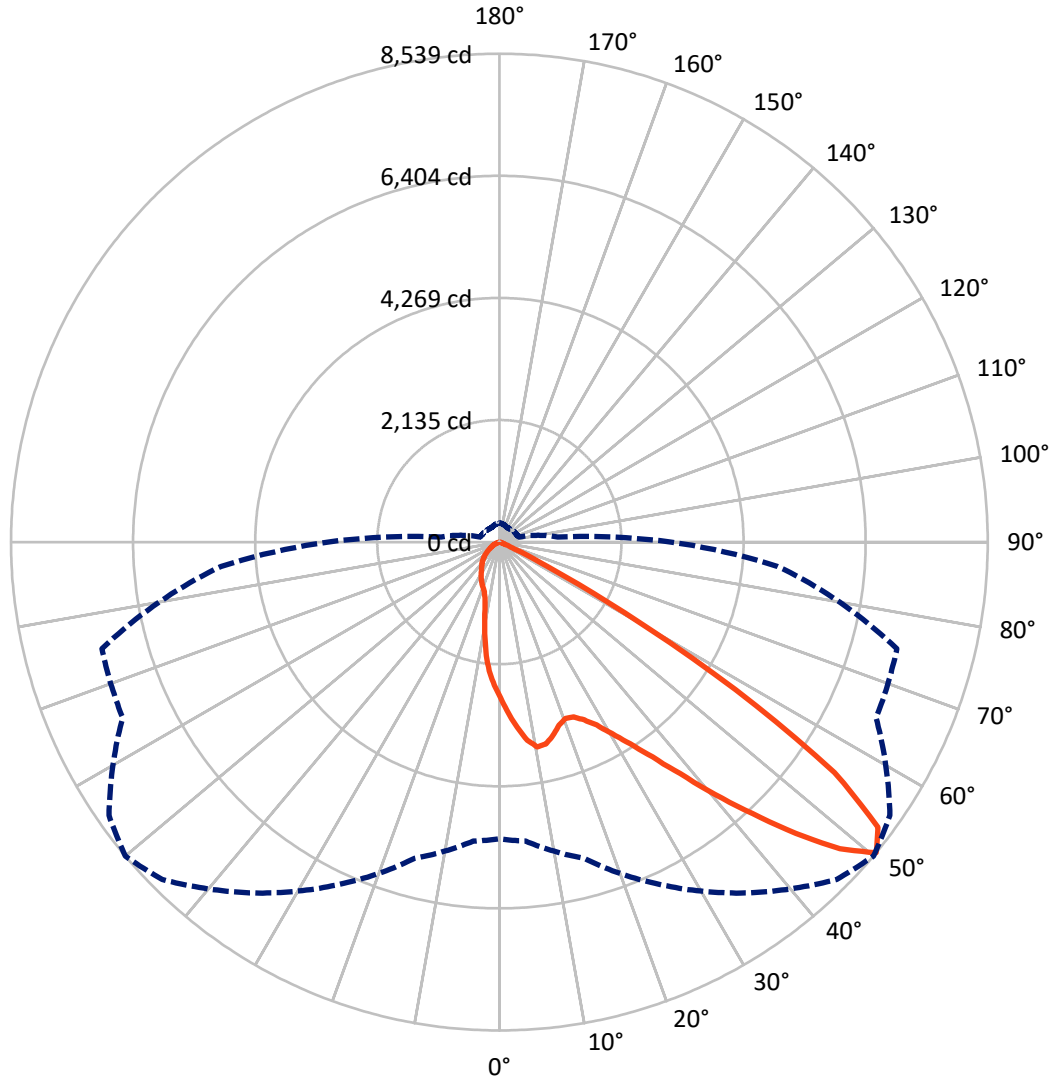
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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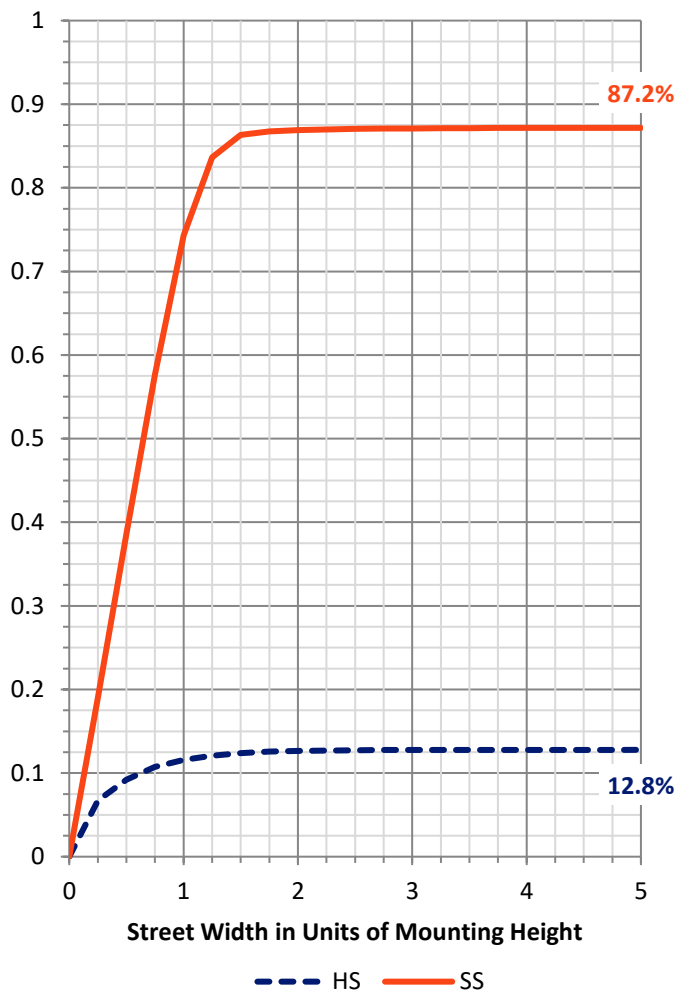
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.7	0.0	1155.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7839.6	0.0	7839.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	8995.3	0.0	8995.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	2.8
10°-20°	652.3	7.3
20°-30°	1076.5	12.0
30°-40°	1776.4	19.7
40°-50°	2810.7	31.2
50°-60°	2128.0	23.7
60°-70°	266.3	3.0
70°-80°	30.1	0.3
80°-90°	2.3	0.0
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°	8995.3	100.0
0°-180°	8995.3	100.0

Coefficient of Utilization



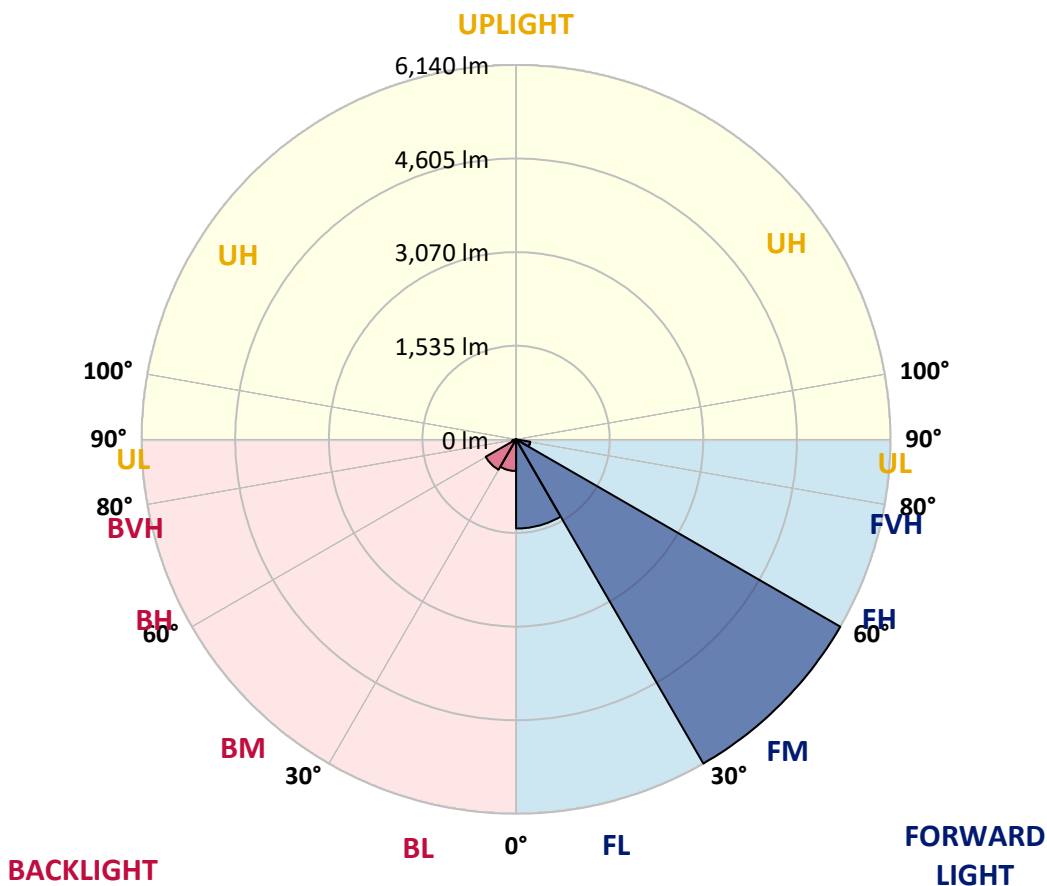
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.8	16.3			
FM (30°-60°)	6140.2	68.3			
FH (60°-80°)	235.5	2.6			G0/660
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	518.8	5.8	B2/1000		
BM (30°-60°)	574.8	6.4	B1/1000		
BH (60°-80°)	61.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	3105.4	3130.2	3123.3	3090.8	3055.7	3030.9	2992.3	2980.4	2893.0	2832.2	2768.0
5°	3480.4	3488.1	3479.5	3440.1	3378.5	3319.4	3256.0	3219.2	3072.8	2941.0	2806.6
7.5°	3570.3	3560.8	3577.1	3596.8	3588.2	3562.6	3495.8	3455.5	3280.9	3066.0	2862.2
10°	3289.4	3268.0	3328.8	3430.7	3537.7	3658.5	3641.3	3644.8	3483.8	3223.5	2935.0
12.5°	2917.0	2908.4	2953.8	3072.0	3281.7	3555.7	3621.6	3732.1	3669.6	3393.9	3018.0
15°	2753.5	2757.8	2785.2	2859.6	3010.3	3351.1	3509.5	3709.0	3835.7	3559.1	3109.6
17.5°	2778.3	2793.7	2792.9	2817.7	2909.3	3182.4	3367.4	3636.2	3964.1	3749.2	3215.0
20°	2947.0	2962.4	2939.3	2920.4	2951.2	3139.6	3292.9	3562.6	4050.6	3941.0	3326.3
22.5°	3199.5	3217.5	3162.7	3108.8	3089.1	3209.8	3321.1	3532.6	4116.5	4116.5	3425.6
25°	3505.2	3530.0	3445.3	3349.4	3294.6	3357.9	3441.8	3600.2	4184.1	4274.0	3493.2
27.5°	3846.8	3847.7	3774.9	3667.0	3564.3	3572.0	3622.5	3752.6	4258.6	4443.6	3546.3
30°	4231.2	4233.8	4137.1	4007.8	3878.5	3843.4	3886.2	3984.7	4413.6	4656.8	3619.9
32.5°	4727.8	4739.8	4601.1	4411.0	4243.2	4177.3	4202.1	4305.7	4660.2	4923.9	3730.4
35°	5399.1	5411.9	5207.3	4956.4	4689.3	4590.0	4614.8	4719.3	5017.2	5303.2	3906.7
37.5°	6061.7	6078.9	5871.7	5637.9	5271.5	5107.1	5132.8	5232.1	5553.2	5827.2	4189.3
40°	6519.8	6542.9	6478.7	6321.2	5981.3	5765.5	5796.3	5832.3	6143.1	6453.9	4555.7
42.5°	6761.2	6793.8	6821.2	6901.7	6722.7	6542.1	6489.8	6492.4	6743.3	7092.6	4936.7
45°	6775.8	6807.5	6947.9	7258.7	7394.8	7357.1	7262.1	7197.9	7201.3	7518.1	5174.7
47.5°	6304.9	6364.0	6626.8	7235.6	7747.6	8060.1	8012.1	7859.7	7394.0	7546.4	5149.1
50°	5189.3	5247.5	5725.3	6601.1	7490.7	8340.9	8538.7	8334.0	7268.1	7194.5	4884.5
52.5°	3768.9	3774.9	4084.8	5108.0	6449.6	7822.9	8288.7	8269.0	7076.3	6768.1	4523.2
55°	1790.3	1768.9	2117.3	2882.8	4460.7	6327.2	7112.3	7334.9	6804.1	6459.9	4243.2
57.5°	521.4	531.7	686.7	1125.0	2231.2	4043.7	4870.8	5285.2	5584.9	5310.9	3291.2
60°	233.7	234.6	261.1	342.5	743.2	1881.0	2518.0	3030.9	3339.1	3094.2	1632.7
62.5°	169.5	170.4	180.7	193.5	252.6	637.0	944.4	1258.6	1281.7	839.1	413.5
65°	141.3	141.3	143.0	143.0	151.5	227.7	286.8	369.9	311.6	231.2	161.8
67.5°	113.9	114.7	116.4	116.4	113.9	113.9	123.3	135.3	144.7	178.9	149.0
70°	89.0	88.2	88.2	89.0	86.5	73.6	79.6	90.8	99.3	139.6	129.3
72.5°	69.4	70.2	69.4	65.9	59.9	43.7	47.1	59.1	63.4	87.3	87.3
75°	52.2	53.1	49.7	37.7	24.8	13.7	18.0	29.1	36.8	42.8	31.7
77.5°	6.8	6.8	5.1	5.1	4.3	5.1	5.1	6.8	10.3	10.3	7.7
80°	0.9	0.9	0.9	1.7	2.6	3.4	3.4	3.4	3.4	4.3	4.3
82.5°	0.9	0.9	0.9	0.9	2.6	2.6	3.4	3.4	3.4	3.4	3.4
85°	0.0	0.0	0.0	0.9	1.7	2.6	2.6	3.4	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.9	1.7	2.6	2.6	2.6	3.4	3.4	3.4
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°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2729.5	2679.8	2619.9	2578.8	2520.6	2482.1	2427.3	2390.5	2358.8	2333.9	2347.6
5°	2730.4	2651.6	2529.2	2424.7	2310.8	2206.4	2094.2	2006.0	1926.4	1890.4	1910.1
7.5°	2747.5	2634.5	2447.0	2261.2	2042.8	1827.1	1625.0	1460.6	1379.3	1340.8	1352.8
10°	2780.9	2626.8	2355.3	2047.1	1692.7	1398.1	1202.1	1090.8	1045.4	1021.4	1025.7
12.5°	2811.7	2621.6	2236.3	1765.4	1335.6	1084.8	982.9	967.5	976.9	977.8	976.9
15°	2853.6	2612.2	2089.1	1476.1	1068.5	937.5	940.1	962.3	984.6	991.5	989.7
17.5°	2898.2	2597.6	1899.0	1198.7	906.7	894.7	924.7	954.6	976.9	980.3	981.2
20°	2944.4	2567.7	1682.4	978.6	831.3	862.2	895.6	917.8	934.1	939.2	940.9
22.5°	2965.8	2504.3	1432.4	821.1	780.8	821.9	846.8	875.9	881.0	862.2	865.6
25°	2954.7	2397.3	1188.4	714.9	730.3	771.4	808.2	793.7	772.3	758.6	762.9
27.5°	2919.6	2255.2	949.5	637.0	676.4	728.6	732.9	716.6	713.2	702.1	705.5
30°	2881.9	2091.6	763.7	574.5	621.6	676.4	663.5	669.5	670.4	657.5	661.8
32.5°	2858.8	1920.4	607.9	532.5	586.5	596.8	622.4	634.4	635.3	605.3	610.5
35°	2866.5	1751.7	514.6	498.3	553.9	551.4	587.3	594.2	544.5	503.4	507.7
37.5°	2929.0	1595.9	461.5	471.8	497.4	517.1	544.5	499.2	488.0	469.2	471.8
40°	3045.4	1463.2	429.8	455.5	458.9	490.6	448.6	454.6	455.5	443.5	446.1
42.5°	3181.6	1352.8	411.0	446.1	437.5	442.6	400.7	412.7	425.5	420.4	421.2
45°	3250.1	1244.9	394.7	413.5	416.1	367.3	357.9	370.7	387.0	389.6	390.4
47.5°	3189.3	1142.1	377.6	366.4	383.6	334.8	323.6	327.9	346.8	357.0	358.7
50°	3003.5	1024.0	351.9	324.5	315.1	300.5	290.2	291.1	312.5	330.5	333.9
52.5°	2742.3	900.7	309.9	274.8	253.4	264.6	267.1	262.0	281.7	299.7	303.1
55°	2488.9	746.6	245.7	223.5	203.8	227.7	234.6	227.7	233.7	245.7	246.6
57.5°	1752.6	422.1	188.4	184.9	168.7	195.2	206.3	196.1	185.8	193.5	195.2
60°	812.5	220.9	144.7	144.7	140.4	167.8	186.6	172.1	152.4	155.8	158.4
62.5°	254.3	139.6	106.2	100.2	114.7	143.0	158.4	143.8	120.7	120.7	124.1
65°	143.8	119.9	83.9	77.1	93.3	114.7	124.1	108.7	88.2	86.5	86.5
67.5°	133.6	113.9	74.5	62.5	65.9	73.6	77.1	66.8	60.8	59.9	60.8
70°	110.4	95.0	59.9	42.8	40.2	39.4	41.1	38.5	36.8	37.7	40.2
72.5°	68.5	57.4	37.7	25.7	22.3	21.4	21.4	21.4	20.5	20.5	20.5
75°	24.8	21.4	17.1	12.8	11.1	10.3	10.3	11.1	10.3	9.4	8.6
77.5°	7.7	6.8	6.8	6.8	6.0	5.1	4.3	4.3	3.4	2.6	2.6
80°	4.3	4.3	4.3	4.3	3.4	3.4	2.6	1.7	0.9	0.9	0.0
82.5°	4.3	4.3	4.3	3.4	3.4	3.4	2.6	1.7	0.9	0.0	0.0
85°	3.4	3.4	3.4	3.4	3.4	3.4	2.6	1.7	0.9	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.6	1.7	0.9	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)