

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: P632688

Luminaire Tested: GWS-SA2D-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9645.8 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

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

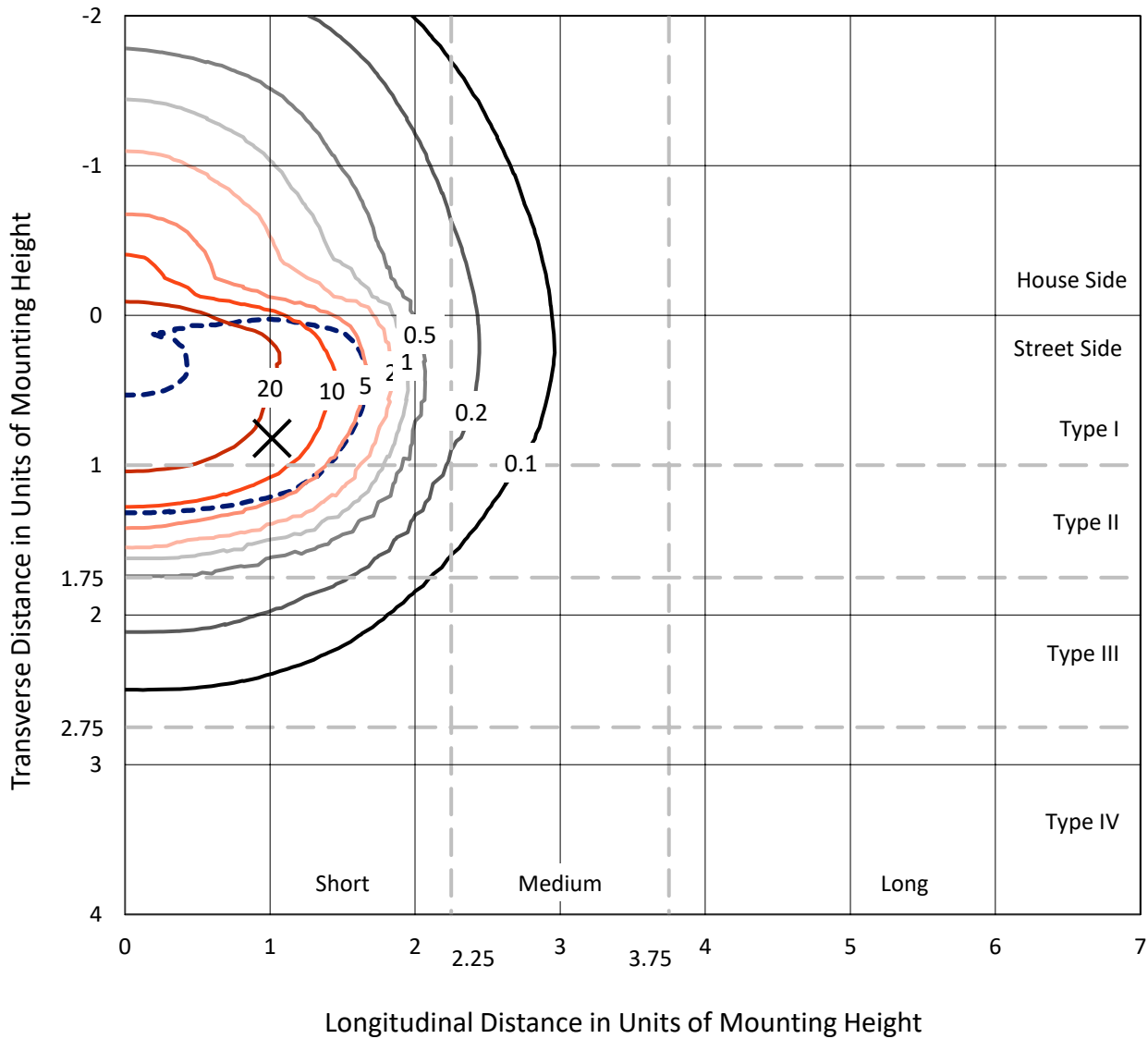


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Iso-Footcandle Lines of Horizontal Illumination

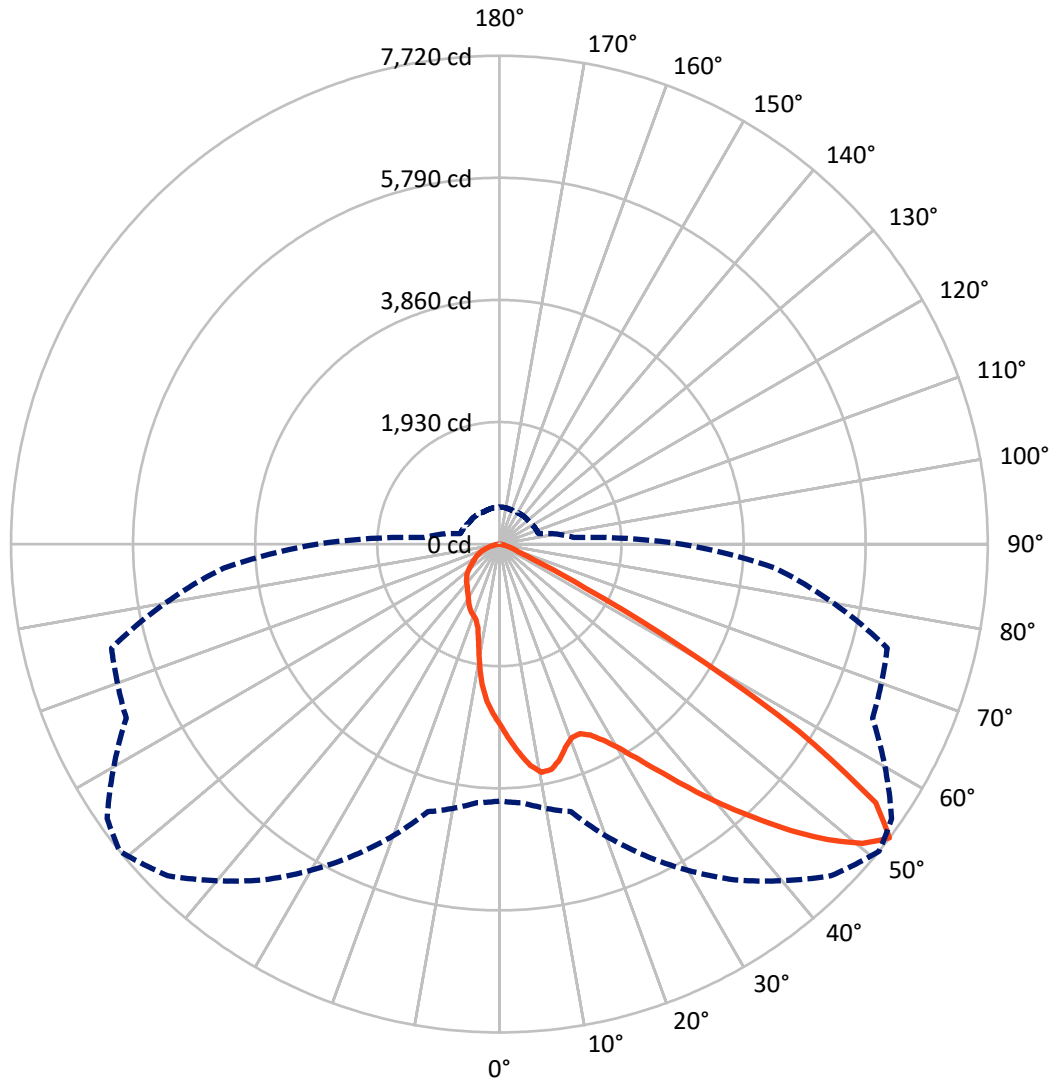
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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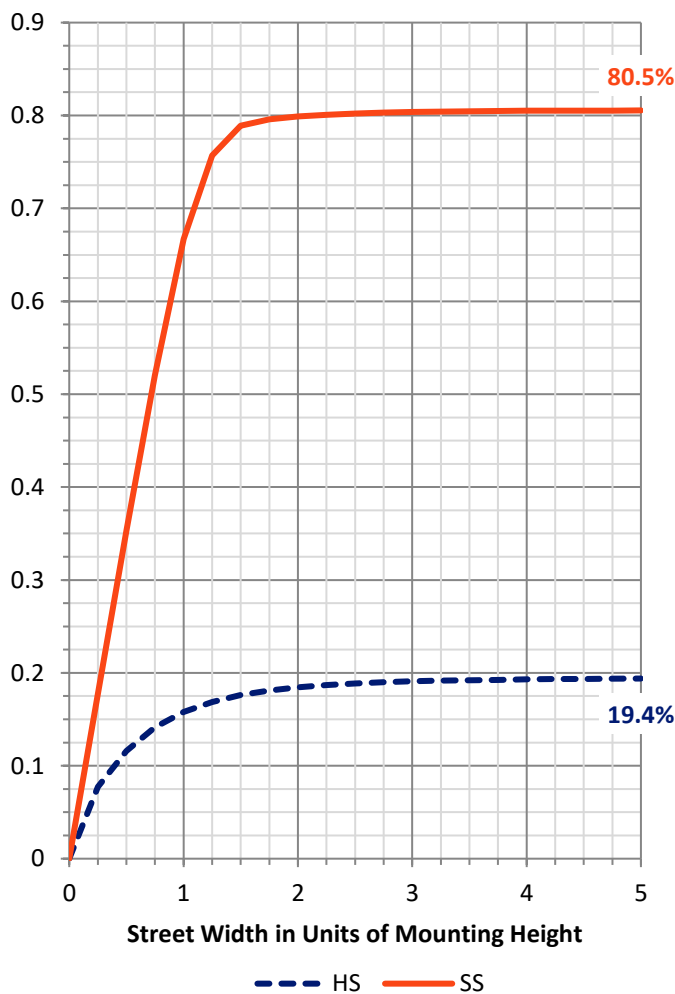
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.4	0.0	1879.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7766.4	0.0	7766.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	9645.8	0.0	9645.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	2.8
10°-20°	696.4	7.2
20°-30°	1132.2	11.7
30°-40°	1794.4	18.6
40°-50°	2706.3	28.1
50°-60°	2341.1	24.3
60°-70°	530.8	5.5
70°-80°	156.5	1.6
80°-90°	20.2	0.2
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°	9645.8	100.0
0°-180°	9645.8	100.0

Coefficient of Utilization



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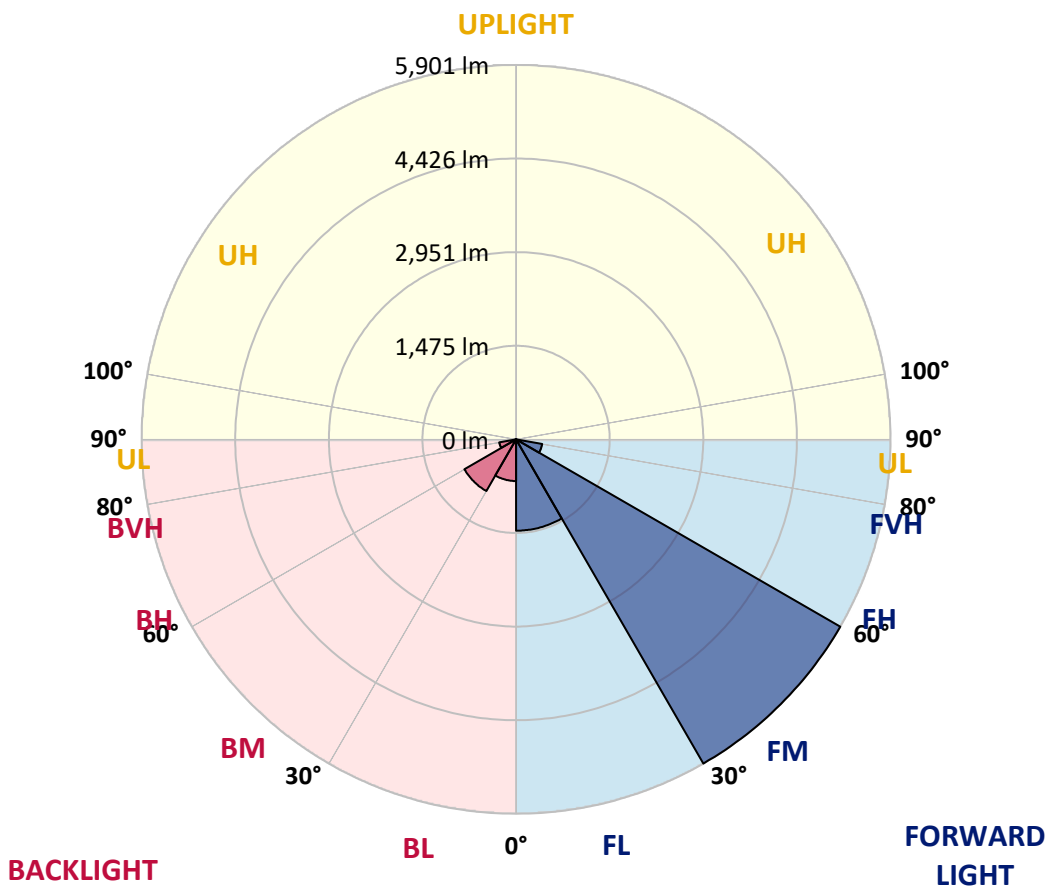
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1439.7	14.9			
FM (30°-60°)	5901.4	61.2			
FH (60°-80°)	417.7	4.3			G0/660
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	657.0	6.8	B2/1000		
BM (30°-60°)	940.3	9.7	B1/1000		
BH (60°-80°)	269.6	2.8	B1/500		G1/500
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0
2.5°	3200.6	3218.8	3190.6	3180.0	3162.4	3132.0	3096.9	3087.0	3011.5	2962.0	2906.3
5°	3522.2	3532.1	3509.2	3486.4	3442.9	3388.8	3321.0	3306.5	3169.3	3055.7	2937.6
7.5°	3593.9	3590.0	3609.9	3622.8	3617.5	3596.1	3535.9	3507.7	3343.8	3164.0	2989.4
10°	3310.3	3289.0	3362.1	3449.0	3553.5	3673.9	3667.0	3664.7	3522.2	3309.5	3055.7
12.5°	2934.5	2923.9	2983.3	3092.3	3289.7	3556.5	3656.4	3734.1	3683.0	3448.3	3129.7
15°	2719.6	2715.8	2756.2	2834.7	2991.7	3328.6	3542.0	3696.0	3821.0	3596.9	3208.2
17.5°	2680.7	2683.0	2696.7	2741.7	2854.5	3132.0	3378.9	3593.9	3928.5	3760.0	3306.5
20°	2794.3	2809.5	2785.9	2792.8	2853.7	3061.1	3267.6	3491.0	3997.1	3923.9	3412.4
22.5°	3046.6	3041.2	2989.4	2958.9	2959.7	3104.5	3255.4	3442.9	4042.0	4083.2	3508.5
25°	3332.4	3326.3	3264.6	3196.7	3154.1	3222.7	3343.1	3494.0	4082.4	4228.8	3585.5
27.5°	3670.1	3651.0	3582.4	3495.5	3401.0	3430.7	3512.3	3632.0	4144.9	4372.1	3636.5
30°	3997.1	4019.2	3920.8	3817.9	3718.1	3699.8	3747.1	3855.3	4272.2	4539.8	3697.5
32.5°	4430.8	4423.1	4314.2	4180.0	4037.5	4023.7	4061.1	4160.2	4500.9	4771.5	3790.5
35°	4955.9	4957.5	4802.7	4621.3	4418.6	4382.0	4444.5	4540.5	4841.6	5085.5	3937.6
37.5°	5501.7	5499.4	5364.5	5158.7	4882.0	4830.2	4901.8	4973.5	5267.7	5513.1	4166.3
40°	5884.3	5899.6	5836.3	5728.1	5465.9	5339.3	5402.6	5452.1	5731.1	6016.2	4467.4
42.5°	6101.6	6124.4	6138.1	6202.9	6065.0	5930.1	5907.2	5933.1	6145.0	6483.4	4750.1
45°	6148.0	6178.5	6278.4	6518.5	6571.8	6533.7	6459.0	6396.5	6453.7	6815.0	4935.4
47.5°	5943.0	5996.4	6209.8	6629.8	6941.5	7061.2	6978.1	6882.8	6632.1	6900.4	4916.3
50°	5130.5	5193.0	5673.9	6402.6	6994.1	7430.1	7437.7	7296.7	6610.7	6654.2	4677.0
52.5°	4061.9	4104.5	4379.7	5427.8	6478.1	7414.9	7719.7	7568.8	6507.8	6346.2	4377.4
55°	2427.7	2496.3	2753.1	3580.9	5046.6	6571.8	7221.2	7294.4	6457.5	6087.8	4173.1
57.5°	819.4	852.9	1098.4	1581.6	2974.2	4811.9	5579.4	5876.7	5862.2	5693.0	3774.5
60°	390.3	397.9	447.4	599.9	1190.6	2514.6	3302.7	3645.7	3958.2	3989.4	2348.4
62.5°	297.3	301.8	327.0	359.8	478.7	1059.5	1513.8	1776.0	1897.2	1628.1	855.2
65°	248.5	252.3	271.3	291.9	325.5	458.9	580.8	670.0	603.7	470.3	407.8
67.5°	207.3	210.4	224.9	247.0	269.8	307.2	322.4	331.6	347.6	390.3	375.0
70°	162.4	165.4	180.6	199.7	221.8	231.0	245.4	254.6	286.6	341.5	339.9
72.5°	125.0	128.8	137.2	149.4	167.7	176.8	192.8	203.5	221.8	266.0	284.3
75°	91.5	93.8	101.4	105.2	107.5	105.2	121.2	133.4	157.8	174.5	179.1
77.5°	37.3	41.9	40.4	40.4	48.0	57.9	66.3	73.9	90.7	100.6	101.4
80°	15.2	16.8	19.8	22.1	26.7	34.3	39.6	42.7	50.3	56.4	61.0
82.5°	9.1	9.9	11.4	12.2	15.2	19.8	22.9	25.2	31.3	37.3	39.6
85°	4.6	4.6	5.3	6.1	7.6	9.1	10.7	12.2	16.0	19.8	22.1
87.5°	0.8	0.8	0.8	1.5	2.3	3.0	3.8	4.6	5.3	6.1	7.6
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°	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0
2.5°	2873.6	2832.4	2784.4	2746.3	2702.1	2669.3	2622.8	2593.8	2566.4	2543.5	2526.8
5°	2876.6	2807.2	2707.4	2619.0	2527.5	2440.6	2351.4	2279.0	2214.2	2160.1	2155.6
7.5°	2894.1	2794.3	2638.0	2483.3	2304.9	2132.7	1960.4	1820.2	1713.5	1657.8	1646.4
10°	2923.9	2792.8	2567.1	2320.2	2016.1	1738.6	1534.3	1427.6	1365.9	1343.8	1336.2
12.5°	2955.1	2789.0	2476.4	2090.0	1667.7	1424.6	1312.5	1299.6	1311.0	1312.5	1311.8
15°	2993.2	2786.7	2362.1	1820.2	1413.2	1279.0	1286.6	1314.1	1340.7	1346.8	1346.8
17.5°	3039.7	2781.3	2206.6	1556.4	1253.8	1250.8	1291.2	1327.8	1352.9	1357.5	1357.5
20°	3088.5	2767.6	2015.3	1341.5	1189.1	1233.3	1276.7	1304.9	1322.4	1328.5	1329.3
22.5°	3122.0	2731.0	1795.0	1182.2	1148.7	1199.7	1231.0	1259.9	1259.9	1244.7	1240.1
25°	3128.9	2652.5	1556.4	1073.2	1100.6	1147.9	1179.9	1163.1	1131.9	1119.7	1118.9
27.5°	3103.8	2538.2	1320.9	995.5	1042.7	1090.0	1084.6	1060.2	1046.5	1034.3	1038.9
30°	3073.3	2401.0	1116.6	931.4	975.6	1022.1	1003.8	995.5	985.5	971.8	974.9
32.5°	3052.7	2247.8	959.6	881.9	930.7	938.3	951.2	950.5	941.3	915.4	913.9
35°	3058.8	2093.0	854.4	841.5	893.3	890.3	914.7	910.1	846.8	811.0	808.7
37.5°	3107.6	1944.4	792.7	809.5	833.9	852.9	874.3	819.4	797.3	774.4	775.9
40°	3200.6	1806.5	759.2	791.9	798.0	826.2	776.7	775.9	766.0	745.4	744.7
42.5°	3305.7	1689.8	736.3	783.6	775.2	780.5	727.9	734.0	733.3	720.3	716.5
45°	3369.8	1582.4	718.0	752.3	754.6	701.2	685.2	692.1	695.9	689.0	688.3
47.5°	3303.5	1458.9	699.0	704.3	724.1	665.4	645.6	646.4	653.2	654.0	650.9
50°	3117.5	1320.9	676.1	663.1	650.2	628.1	609.8	606.0	612.8	619.7	622.0
52.5°	2877.4	1189.1	638.0	618.2	587.7	587.7	579.3	567.1	576.2	585.4	588.4
55°	2701.3	1091.5	583.9	561.8	528.2	539.7	538.1	527.5	539.7	546.5	548.8
57.5°	2340.8	877.3	513.7	506.9	478.7	492.4	495.4	481.7	475.6	477.1	479.4
60°	1389.5	566.3	463.4	462.7	437.5	453.5	462.7	448.9	430.7	432.9	436.0
62.5°	623.5	432.9	400.2	397.1	396.4	416.9	426.8	413.9	388.0	390.3	393.3
65°	392.5	374.2	347.6	347.6	359.8	377.3	384.9	374.2	344.5	340.7	343.8
67.5°	364.3	348.3	320.9	315.6	321.7	336.1	336.9	316.3	298.8	295.7	295.7
70°	327.0	314.8	288.1	277.4	275.2	274.4	272.1	266.8	255.3	252.3	253.8
72.5°	270.6	262.2	245.4	234.0	227.9	227.1	218.0	213.4	203.5	202.0	201.2
75°	179.1	181.4	181.4	179.9	174.5	172.3	162.4	157.8	146.3	141.8	141.0
77.5°	105.9	108.2	111.3	112.0	111.3	111.3	102.1	96.8	85.4	79.3	77.7
80°	64.8	66.3	67.8	70.1	67.1	64.8	56.4	51.1	45.7	41.9	41.2
82.5°	41.9	43.4	44.2	45.7	44.2	41.2	34.3	31.3	27.4	24.4	23.6
85°	23.6	24.4	25.9	25.9	23.6	21.3	17.5	15.2	13.0	11.4	11.4
87.5°	8.4	8.4	8.4	9.1	7.6	6.9	4.6	3.0	2.3	2.3	2.3
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)