

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: P636762

Luminaire Tested: GWS-SA4B-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12759.6 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

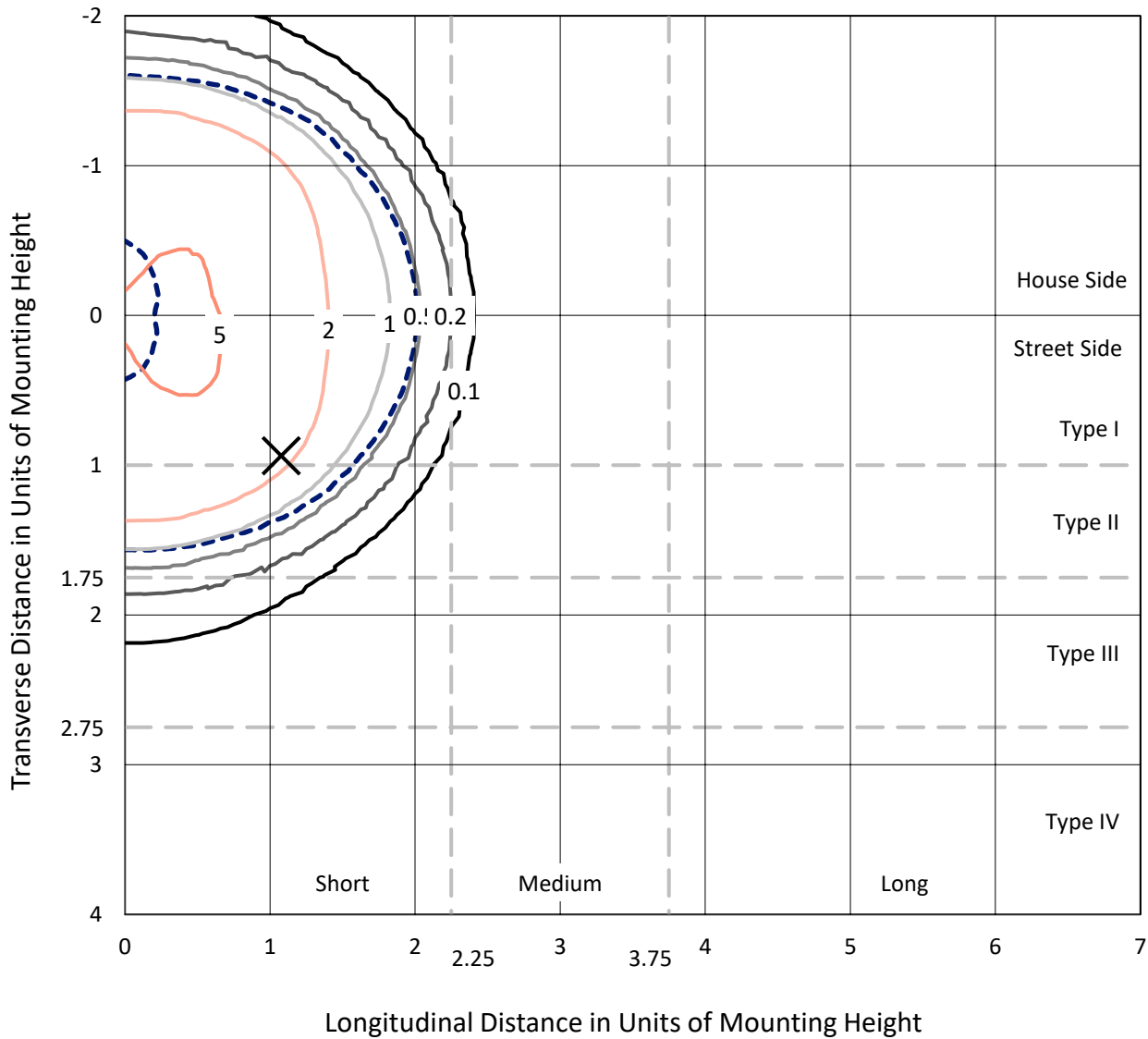
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

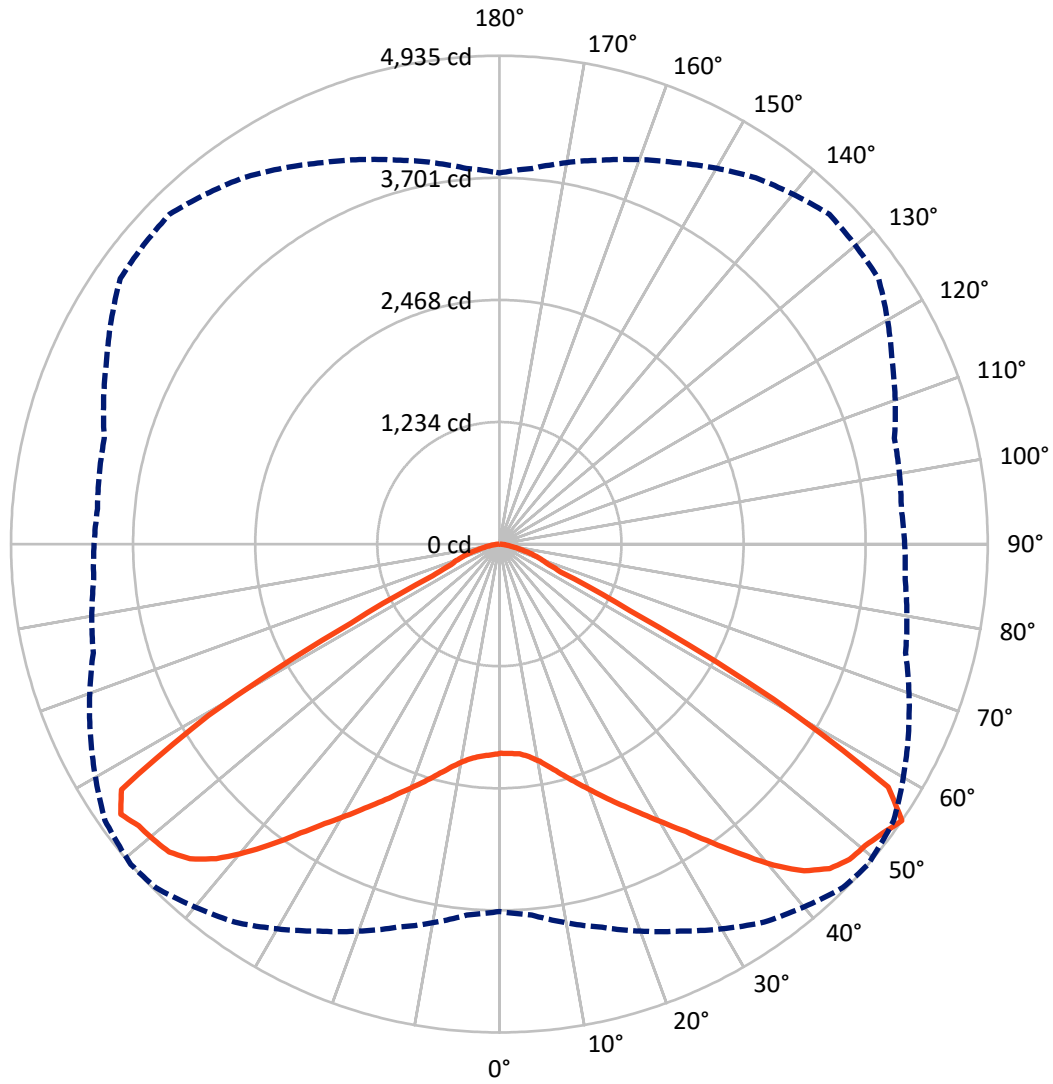
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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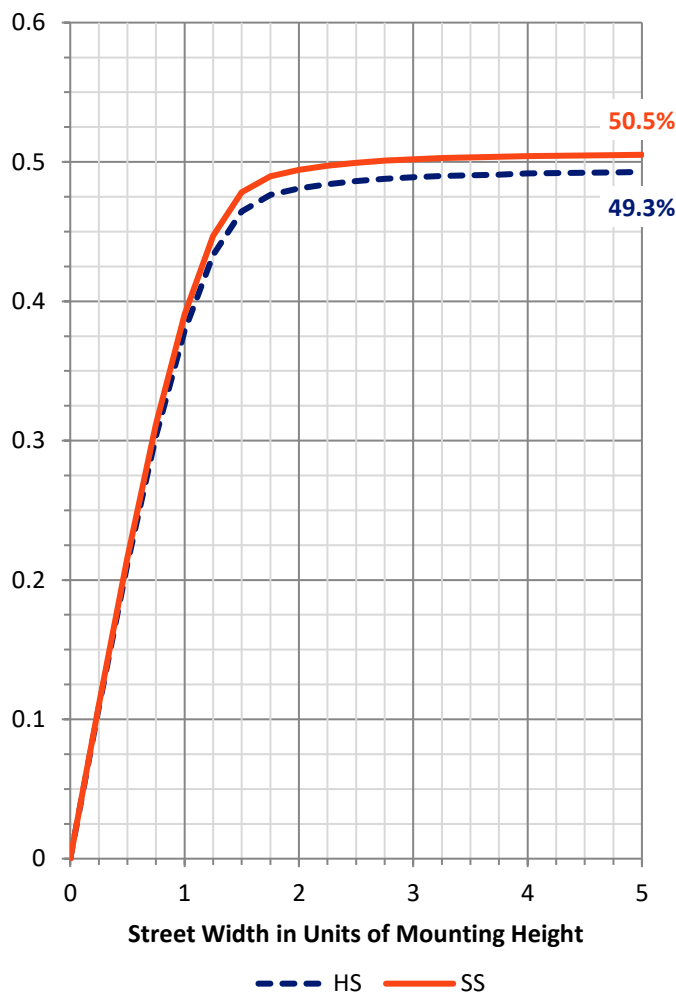
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6317.2	0.0	6317.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6442.4	0.0	6442.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	12759.6	0.0	12759.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	1.6
10°-20°	680.1	5.3
20°-30°	1295.4	10.2
30°-40°	2196.0	17.2
40°-50°	3304.8	25.9
50°-60°	3617.5	28.4
60°-70°	1143.9	9.0
70°-80°	274.5	2.2
80°-90°	41.2	0.3
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°	12759.6	100.0
0°-180°	12759.6	100.0

Coefficient of Utilization



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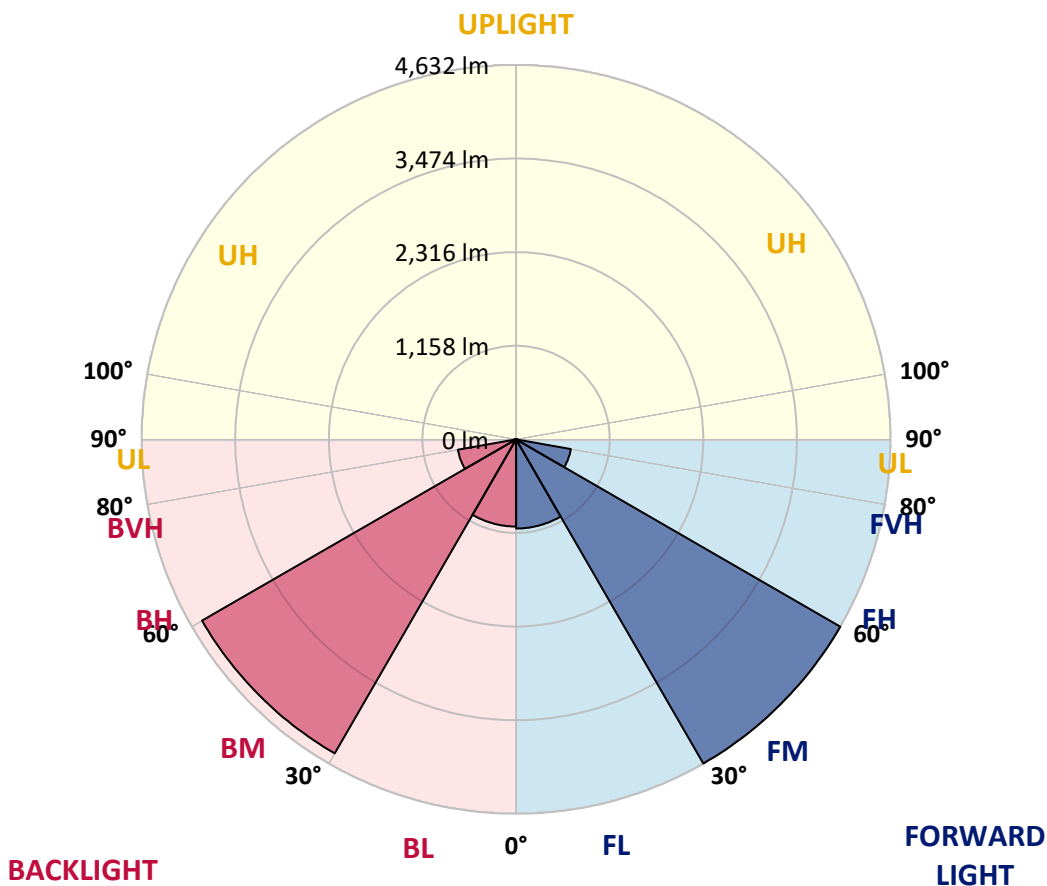
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.2	8.6			
FM (30°-60°)	4632.1	36.3			
FH (60°-80°)	688.0	5.4			G1/1800
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	1078.5	8.5	B3/2500		
BM (30°-60°)	4486.2	35.2	B3/5000		
BH (60°-80°)	730.3	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	2082.6	2084.7	2088.8	2096.1	2103.3	2113.7	2117.9	2123.0	2122.0	2128.2	2128.2
5°	2072.2	2075.3	2081.5	2091.9	2104.4	2124.1	2129.3	2141.7	2154.2	2169.7	2174.9
7.5°	2084.7	2088.8	2096.1	2112.7	2131.3	2157.3	2167.7	2188.4	2212.3	2240.3	2251.7
10°	2108.5	2113.7	2126.2	2153.1	2183.2	2222.7	2232.0	2257.9	2296.3	2334.7	2357.6
12.5°	2135.5	2143.8	2166.6	2209.2	2253.8	2305.7	2320.2	2352.4	2393.9	2443.7	2474.8
15°	2166.6	2173.9	2209.2	2269.4	2338.9	2407.4	2424.0	2455.1	2501.8	2550.6	2594.1
17.5°	2232.0	2244.4	2286.0	2355.5	2436.4	2517.4	2536.0	2571.3	2608.7	2647.1	2688.6
20°	2321.2	2331.6	2384.5	2470.7	2566.1	2639.8	2658.5	2689.6	2707.2	2727.0	2762.2
22.5°	2410.5	2425.0	2485.2	2586.9	2698.9	2778.8	2793.4	2822.4	2810.0	2803.7	2826.6
25°	2521.5	2541.2	2600.4	2711.4	2825.5	2924.1	2935.5	2960.4	2939.7	2907.5	2906.5
27.5°	2659.5	2677.2	2738.4	2852.5	2965.6	3068.3	3090.1	3123.3	3077.7	3038.3	3010.2
30°	2823.5	2834.9	2902.3	3023.7	3139.9	3237.5	3265.5	3298.7	3264.5	3199.1	3171.1
32.5°	3014.4	3030.0	3107.8	3235.4	3339.2	3436.7	3464.7	3506.2	3468.9	3395.2	3359.9
35°	3243.7	3259.3	3341.3	3480.3	3586.1	3686.8	3706.5	3740.7	3694.1	3609.0	3581.0
37.5°	3492.7	3512.5	3616.2	3748.0	3859.0	3976.3	3977.3	3987.7	3921.3	3815.5	3784.3
40°	3772.9	3798.9	3902.6	4039.6	4173.5	4268.9	4267.9	4238.8	4126.8	3962.8	3915.1
42.5°	4050.0	4070.7	4175.5	4316.6	4450.5	4540.8	4513.8	4443.2	4281.4	4058.3	3995.0
45°	4250.2	4265.8	4375.8	4534.6	4670.5	4726.5	4677.8	4592.7	4373.7	4118.5	4025.1
47.5°	4344.7	4365.4	4476.4	4634.2	4787.7	4819.9	4761.8	4681.9	4427.7	4174.5	4048.9
50°	4293.8	4320.8	4446.4	4592.7	4766.0	4832.4	4790.9	4711.0	4484.7	4229.5	4091.5
52.5°	4162.0	4188.0	4346.7	4524.2	4720.3	4852.1	4851.0	4785.7	4550.1	4245.1	4093.6
55°	3711.7	3762.5	4009.5	4315.6	4664.3	4910.2	4935.1	4865.6	4560.5	4249.2	4115.3
57.5°	2415.7	2504.9	2739.4	3137.9	3837.3	4466.1	4634.2	4650.8	4485.8	4231.6	4119.5
60°	1008.6	1080.2	1265.9	1530.5	2108.5	2856.7	3182.5	3509.4	3903.7	4046.9	4081.1
62.5°	626.7	633.0	651.6	711.8	904.8	1270.1	1479.7	1785.8	2372.1	2871.2	3101.6
65°	565.5	568.6	572.8	568.6	578.0	622.6	678.6	785.5	1024.2	1272.2	1566.9
67.5°	498.1	502.2	505.3	502.2	505.3	507.4	513.6	523.0	566.6	601.8	628.8
70°	402.6	408.8	414.0	411.9	424.4	424.4	430.6	437.9	459.7	485.6	504.3
72.5°	307.1	302.0	308.2	310.3	321.7	327.9	337.2	345.5	370.4	386.0	409.9
75°	199.2	194.0	203.4	208.6	224.1	232.4	240.7	249.0	266.7	277.1	299.9
77.5°	107.9	106.9	116.2	123.5	140.1	150.5	156.7	162.9	177.4	180.6	195.1
80°	62.3	62.3	68.5	73.7	84.1	95.5	101.7	106.9	117.3	120.4	126.6
82.5°	34.2	34.2	37.4	40.5	48.8	55.0	60.2	64.3	73.7	76.8	79.9
85°	16.6	15.6	17.6	19.7	22.8	25.9	29.1	31.1	38.4	40.5	44.6
87.5°	2.1	2.1	2.1	3.1	4.2	6.2	7.3	7.3	11.4	13.5	15.6
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°	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	2134.5	2121.0	2129.3	2132.4	2132.4	2129.3	2115.8	2111.6	2105.4	2096.1	2096.1
5°	2182.2	2171.8	2173.9	2168.7	2156.2	2140.7	2115.8	2103.3	2093.0	2081.5	2080.5
7.5°	2264.2	2250.7	2248.6	2228.9	2195.7	2162.5	2125.1	2102.3	2086.7	2072.2	2071.2
10°	2371.0	2358.6	2343.0	2303.6	2254.8	2206.1	2155.2	2124.1	2101.3	2080.5	2079.5
12.5°	2490.4	2475.8	2446.8	2388.7	2327.5	2279.7	2221.6	2173.9	2139.6	2111.6	2106.4
15°	2620.1	2599.3	2549.5	2481.0	2420.9	2370.0	2307.7	2239.3	2187.4	2142.8	2137.6
17.5°	2719.7	2692.7	2638.8	2574.4	2524.6	2473.8	2392.8	2306.7	2232.0	2176.0	2167.7
20°	2788.2	2766.4	2705.2	2657.4	2628.4	2583.8	2489.3	2391.8	2307.7	2237.2	2233.0
22.5°	2851.5	2825.5	2765.4	2737.3	2737.3	2707.2	2617.0	2501.8	2403.2	2321.2	2310.9
25°	2923.1	2895.1	2849.4	2846.3	2860.8	2847.3	2738.4	2614.9	2499.7	2407.4	2390.8
27.5°	3022.7	2991.6	2964.6	2983.3	3004.0	2989.5	2868.1	2724.9	2603.5	2510.1	2495.6
30°	3181.5	3143.1	3118.2	3141.0	3181.5	3138.9	3007.1	2855.6	2733.2	2630.5	2623.2
32.5°	3366.2	3322.6	3296.6	3333.0	3369.3	3302.9	3172.1	3026.8	2898.2	2790.3	2777.8
35°	3588.2	3533.2	3494.8	3543.6	3581.0	3515.6	3385.9	3247.9	3104.7	2992.6	2976.0
37.5°	3785.4	3719.0	3693.0	3761.5	3811.3	3768.8	3627.6	3497.9	3341.3	3218.8	3211.5
40°	3928.6	3863.2	3844.5	3957.6	4044.8	4034.4	3907.8	3759.4	3612.1	3471.0	3457.5
42.5°	3990.8	3945.2	3949.3	4101.9	4236.7	4303.2	4190.1	4031.3	3889.1	3742.8	3733.5
45°	4004.3	3976.3	4009.5	4200.4	4377.9	4513.8	4417.3	4284.5	4123.6	3982.5	3978.4
47.5°	4018.8	4003.3	4054.1	4256.5	4467.1	4624.8	4570.9	4433.9	4271.0	4133.0	4122.6
50°	4053.1	4046.9	4103.9	4295.9	4509.7	4654.9	4593.7	4457.8	4290.7	4154.8	4129.9
52.5°	4063.5	4053.1	4135.1	4357.1	4580.2	4653.9	4522.1	4344.7	4176.6	4025.1	3999.1
55°	4095.6	4077.0	4133.0	4379.9	4677.8	4714.1	4518.0	4252.3	4017.8	3811.3	3750.1
57.5°	4103.9	4083.2	4119.5	4342.6	4571.9	4539.7	3971.1	3431.5	2989.5	2760.2	2786.1
60°	4059.3	4065.5	4003.3	3978.4	3667.1	3237.5	2431.2	1943.5	1526.4	1350.0	1388.4
62.5°	3090.1	3116.1	2903.4	2524.6	1941.5	1538.8	1017.9	790.7	669.3	638.2	643.3
65°	1559.6	1594.9	1373.9	1136.2	844.7	682.8	590.4	571.7	565.5	558.3	558.3
67.5°	617.4	627.8	619.5	580.0	539.6	525.1	520.9	518.8	511.6	507.4	508.5
70°	496.0	504.3	491.8	466.9	450.3	449.3	447.2	443.1	437.9	437.9	441.0
72.5°	404.7	413.0	395.3	379.8	367.3	358.0	352.8	349.7	342.4	342.4	345.5
75°	297.8	303.0	288.5	286.4	272.9	263.6	255.3	251.1	241.8	237.6	240.7
77.5°	198.2	197.2	189.9	189.9	184.7	173.3	163.9	154.6	142.2	133.9	135.9
80°	128.7	128.7	125.6	125.6	120.4	111.0	99.6	90.3	83.0	76.8	76.8
82.5°	82.0	80.9	79.9	78.9	76.8	67.4	59.1	52.9	47.7	43.6	44.6
85°	45.7	45.7	43.6	43.6	39.4	34.2	30.1	25.9	22.8	21.8	21.8
87.5°	15.6	15.6	14.5	14.5	12.5	9.3	7.3	6.2	5.2	4.2	5.2
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)