

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: P637790

Luminaire Tested: GWS-SA4D-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23654.2 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

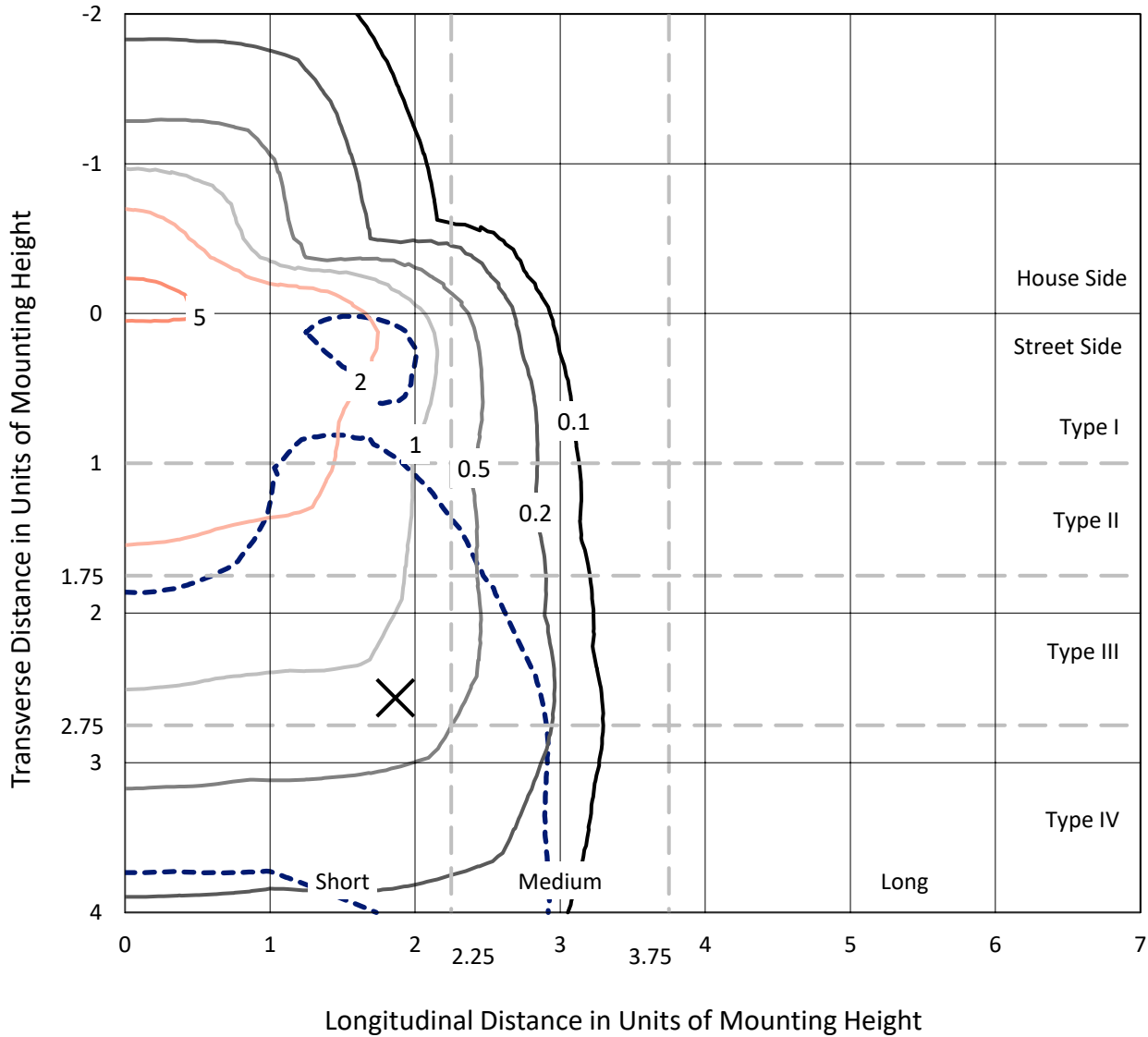
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

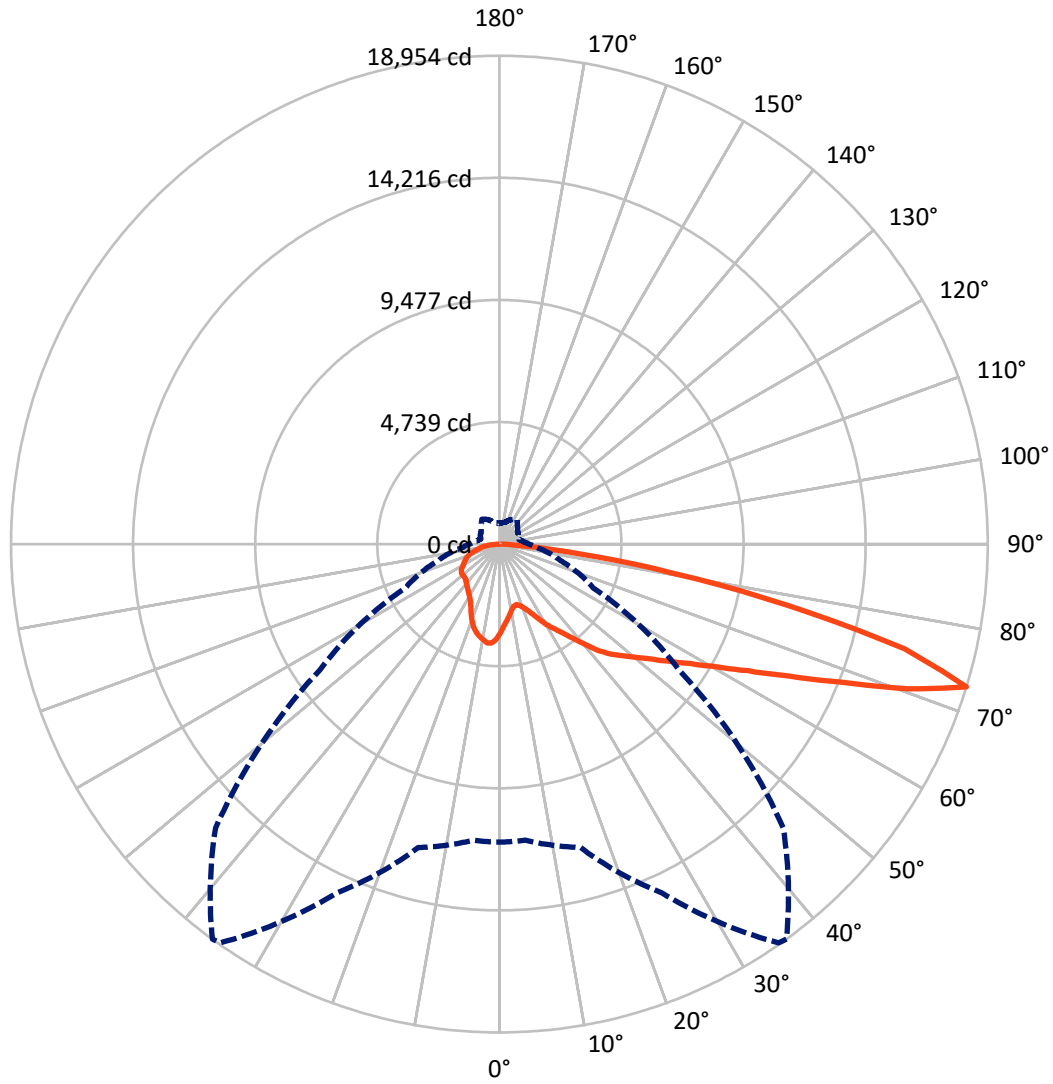
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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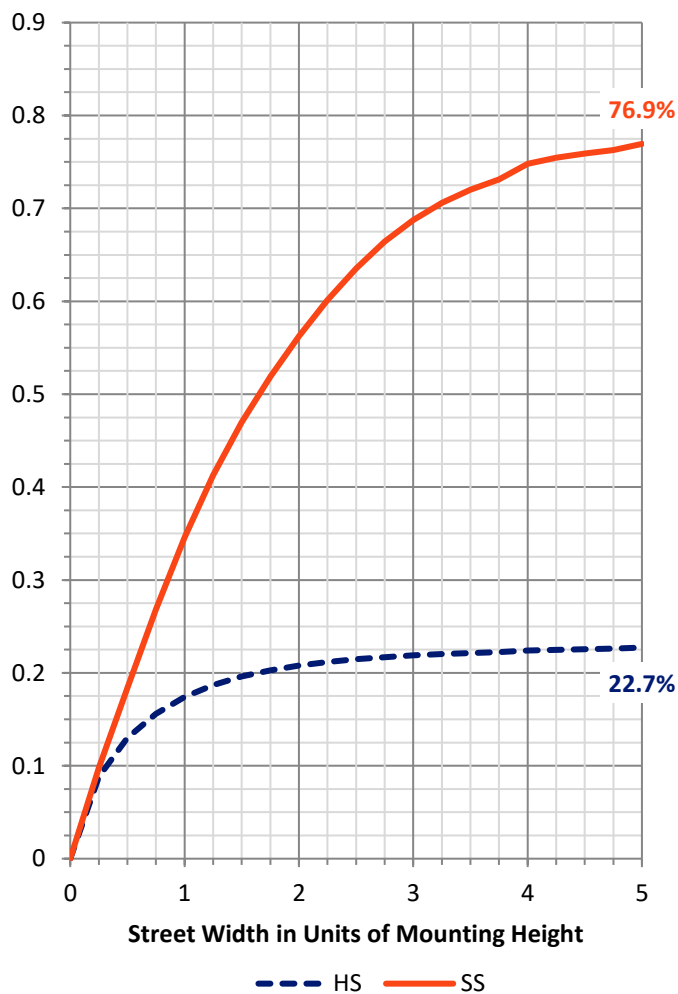
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5453.3	0.0	5453.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	18200.9	0.0	18200.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	23654.2	0.0	23654.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	1.4
10°-20°	913.0	3.9
20°-30°	1512.0	6.4
30°-40°	2264.4	9.6
40°-50°	3303.5	14.0
50°-60°	4701.9	19.9
60°-70°	5940.5	25.1
70°-80°	4233.1	17.9
80°-90°	462.1	2.0
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°	23654.2	100.0
0°-180°	23654.2	100.0

Coefficient of Utilization



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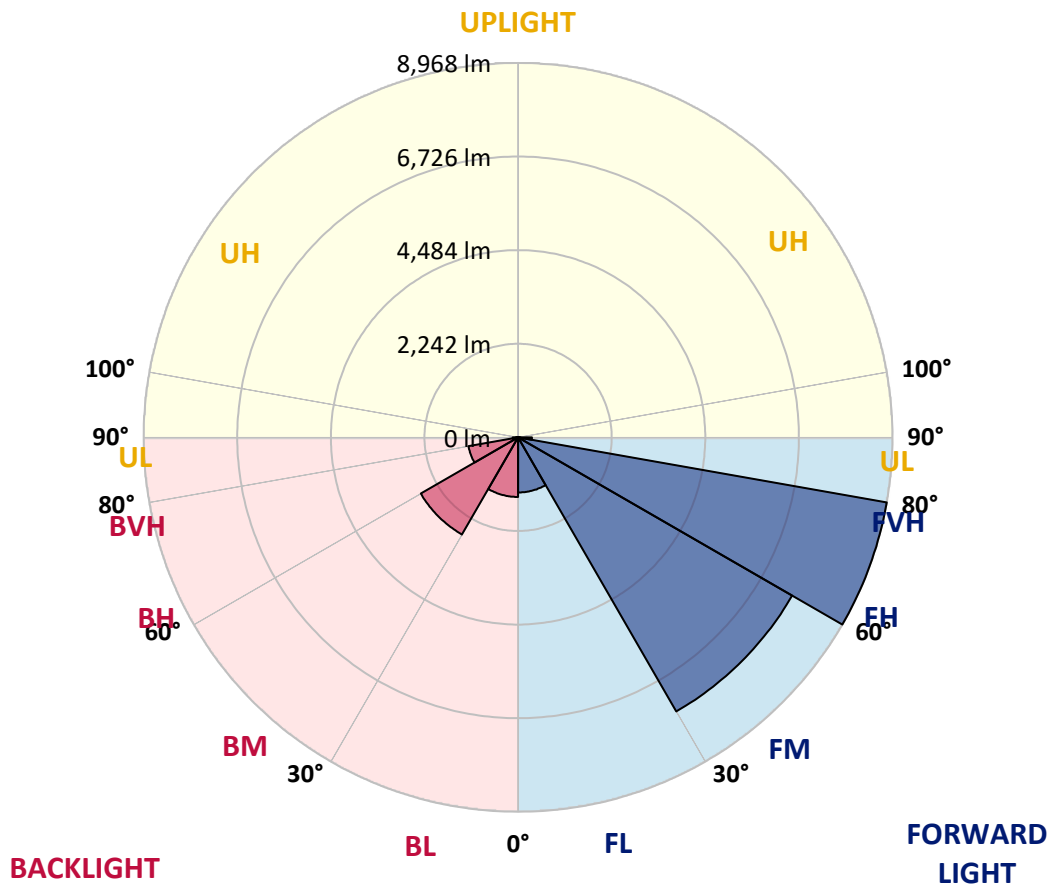
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.5	5.6			
FM (30°-60°)	7580.6	32.0			
FH (60°-80°)	8968.1	37.9			G4/12000
FVH (80°-90°)	331.7	1.4			G3/500
BL (0°-30°)	1428.0	6.0	B3/2500		
BM (30°-60°)	2689.3	11.4	B3/5000		
BH (60°-80°)	1205.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	130.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9
2.5°	3158.2	3152.9	3142.4	3174.0	3205.6	3202.1	3246.0	3288.1	3333.7	3381.1	3444.3
5°	2905.4	2901.9	2893.1	2940.5	2987.9	2986.2	3058.1	3126.6	3219.6	3321.5	3447.9
7.5°	2652.6	2643.8	2656.1	2715.8	2782.5	2789.5	2887.8	3000.2	3135.4	3288.1	3467.2
10°	2429.6	2427.9	2433.2	2499.9	2599.9	2607.0	2733.4	2889.6	3068.7	3272.3	3511.1
12.5°	2371.7	2368.2	2354.2	2387.5	2463.0	2473.5	2612.2	2803.6	3023.0	3281.1	3570.7
15°	2466.5	2457.7	2408.6	2392.8	2429.6	2438.4	2556.0	2752.7	2996.7	3296.9	3646.2
17.5°	2629.8	2624.5	2531.5	2466.5	2491.1	2498.1	2585.9	2743.9	2989.7	3328.5	3739.3
20°	2868.5	2845.7	2700.0	2601.7	2601.7	2612.2	2664.9	2782.5	2998.4	3367.1	3844.6
22.5°	3184.5	3138.9	2933.5	2800.1	2765.0	2779.0	2801.8	2879.1	3035.3	3432.1	3976.3
25°	3539.1	3497.0	3253.0	3065.1	3016.0	3021.3	3002.0	3016.0	3116.1	3521.6	4139.5
27.5°	3916.6	3888.5	3628.7	3389.9	3312.7	3312.7	3244.2	3210.9	3228.4	3623.4	4322.1
30°	4253.6	4215.0	3995.6	3734.0	3632.2	3632.2	3502.3	3430.3	3388.2	3748.0	4566.1
32.5°	4430.9	4408.1	4262.4	4062.3	3937.6	3918.3	3806.0	3721.7	3623.4	3932.4	4896.2
35°	4662.7	4657.4	4569.6	4413.4	4255.4	4227.3	4150.1	4083.4	3913.1	4162.4	5335.0
37.5°	4954.1	4945.3	4931.3	4838.2	4648.6	4643.4	4574.9	4494.1	4273.0	4494.1	5867.0
40°	5280.6	5264.8	5247.3	5245.5	5131.4	5112.1	5106.8	5015.5	4706.6	4894.4	6421.7
42.5°	5730.0	5675.6	5510.6	5584.3	5668.6	5651.0	5717.7	5580.8	5247.3	5370.2	6946.6
45°	6283.0	6149.6	5823.1	5844.1	6056.6	6091.7	6323.4	6290.1	5842.4	5919.6	7499.6
47.5°	6614.8	6499.0	6195.3	6177.7	6442.8	6486.7	6990.5	7053.7	6483.2	6581.5	8182.5
50°	6886.9	6806.2	6556.9	6581.5	6862.4	6906.2	7652.3	7787.5	7087.1	7259.1	8976.0
52.5°	7215.2	7099.3	6906.2	7022.1	7366.2	7418.9	8387.9	8533.6	7631.3	8003.4	9797.6
55°	7399.5	7352.1	7355.7	7533.0	7964.8	8036.8	9158.6	9134.0	8129.8	8640.7	10415.5
57.5°	7824.4	7806.8	7968.3	8035.0	8663.5	8756.6	9929.3	9718.6	8582.8	9134.0	10712.2
60°	8574.0	8530.1	8670.5	8772.4	9527.2	9658.9	10789.5	10290.9	8890.0	9500.9	10612.2
62.5°	9627.3	9572.9	9578.2	9739.7	10684.1	10822.8	11746.2	10768.4	8984.8	9557.1	9978.4
65°	10936.9	10857.9	10768.4	10987.8	12220.2	12336.1	12787.3	11116.0	8758.3	9016.4	8654.7
67.5°	12318.5	12253.6	12148.2	12608.2	14209.2	14279.5	13954.7	11086.1	8040.3	7569.8	6070.6
70°	12399.3	12415.1	12913.7	14577.9	16805.7	16823.2	15058.9	10485.8	6511.2	4906.7	3024.8
72.5°	11567.2	11540.8	12190.4	14937.8	18894.7	18954.4	15580.3	8495.0	4023.7	2447.2	1418.5
75°	9395.6	9441.2	10124.1	13069.9	16194.7	16247.4	12701.2	5008.5	1911.8	1197.3	907.6
77.5°	4044.7	4299.3	5645.8	9207.7	11598.8	11435.5	6546.4	2029.4	1020.0	853.2	695.2
80°	1167.4	1267.5	2011.8	4378.3	6950.1	6827.2	2591.2	760.1	711.0	640.8	498.6
82.5°	377.4	417.8	737.3	1743.2	3114.3	3110.8	983.1	449.4	465.2	435.4	321.3
85°	105.3	121.1	226.5	528.4	963.8	944.5	284.4	212.4	247.5	251.0	159.8
87.5°	0.0	0.0	1.8	3.5	3.5	3.5	7.0	31.6	72.0	91.3	65.0
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°	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9
2.5°	3483.0	3477.7	3549.7	3605.9	3658.5	3693.6	3704.2	3711.2	3725.2	3732.2	3725.2
5°	3507.5	3533.9	3653.3	3741.0	3811.2	3853.4	3855.1	3851.6	3862.2	3853.4	3848.1
7.5°	3560.2	3611.1	3762.1	3855.1	3900.8	3902.5	3860.4	3811.2	3786.7	3765.6	3758.6
10°	3630.4	3705.9	3870.9	3932.4	3918.3	3853.4	3760.3	3683.1	3639.2	3607.6	3600.6
12.5°	3727.0	3811.2	3967.5	3965.7	3878.0	3762.1	3653.3	3560.2	3497.0	3460.1	3447.9
15°	3818.3	3925.4	4037.7	3955.2	3816.5	3676.1	3535.6	3411.0	3326.7	3268.8	3258.3
17.5°	3930.6	4044.7	4088.6	3921.8	3739.3	3558.5	3370.6	3207.3	3093.2	3024.8	3019.5
20°	4060.5	4162.4	4113.2	3863.9	3639.2	3402.2	3147.7	2965.1	2842.2	2775.5	2780.8
22.5°	4211.5	4285.2	4120.2	3784.9	3500.5	3181.0	2896.6	2721.1	2638.6	2603.4	2605.2
25°	4373.0	4420.4	4107.9	3677.8	3288.1	2910.7	2638.6	2557.8	2550.8	2542.0	2545.5
27.5°	4564.4	4553.8	4071.1	3526.9	3002.0	2596.4	2457.7	2478.8	2506.9	2503.4	2506.9
30°	4820.7	4720.6	4023.7	3317.9	2661.4	2333.1	2350.6	2410.3	2447.2	2450.7	2461.2
32.5°	5113.8	4904.9	3948.2	3033.5	2336.6	2185.6	2250.6	2322.6	2366.4	2375.2	2389.3
35°	5463.2	5115.6	3814.8	2678.9	2103.1	2097.9	2157.5	2206.7	2254.1	2257.6	2257.6
37.5°	5865.2	5326.3	3602.3	2287.5	1959.2	2022.4	2078.5	2089.1	2101.4	2090.8	2096.1
40°	6233.9	5529.9	3300.4	1931.1	1841.5	1955.7	2003.1	1967.9	1929.3	1903.0	1908.3
42.5°	6542.8	5668.6	2900.1	1681.8	1722.2	1896.0	1932.8	1860.9	1785.4	1736.2	1743.2
45°	6890.4	5796.7	2429.6	1513.3	1620.4	1853.8	1878.4	1785.4	1688.8	1615.1	1604.6
47.5°	7369.7	6058.3	2011.8	1395.6	1548.4	1831.0	1871.4	1745.0	1618.6	1508.0	1495.7
50°	7961.3	6428.7	1662.5	1318.4	1515.0	1818.7	1869.6	1701.1	1550.1	1420.2	1411.4
52.5°	8607.3	6790.4	1404.4	1258.7	1481.7	1781.9	1860.9	1652.0	1478.2	1337.7	1327.2
55°	9037.5	6932.6	1230.6	1202.5	1427.2	1723.9	1825.7	1604.6	1369.3	1241.2	1225.4
57.5°	9163.8	6750.0	1109.5	1151.6	1357.0	1643.2	1759.0	1504.5	1302.6	1200.8	1188.5
60°	8946.2	6290.1	1034.0	1109.5	1279.8	1539.6	1643.2	1446.6	1249.9	1158.6	1149.9
62.5°	8331.7	5580.8	976.1	1065.6	1200.8	1430.8	1569.4	1376.3	1192.0	1120.0	1107.7
65°	7095.8	4576.7	928.7	1020.0	1125.3	1327.2	1488.7	1306.1	1128.8	1074.4	1060.3
67.5°	4962.9	3214.4	877.8	965.5	1049.8	1227.1	1404.4	1241.2	1063.8	1023.5	1009.4
70°	2426.1	1704.6	816.3	902.3	969.1	1125.3	1320.2	1162.2	977.8	955.0	935.7
72.5°	1155.1	953.3	744.3	816.3	858.5	990.1	1179.7	1048.0	876.0	826.9	793.5
75°	774.2	677.6	649.5	714.5	725.0	830.4	1011.2	904.1	772.4	716.3	688.2
77.5°	586.3	517.9	546.0	603.9	582.8	682.9	832.1	805.8	696.9	646.0	632.0
80°	412.5	377.4	433.6	468.7	452.9	581.1	749.6	689.9	574.1	517.9	507.3
82.5°	259.8	252.8	319.5	324.8	330.0	459.9	616.2	542.5	445.9	366.9	340.6
85°	129.9	144.0	191.4	191.4	189.6	237.0	351.1	305.5	240.5	191.4	186.1
87.5°	43.9	61.4	82.5	66.7	50.9	40.4	45.6	56.2	59.7	57.9	57.9
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)