

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: P636851

Luminaire Tested: GWS-SA4B-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12980.9 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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

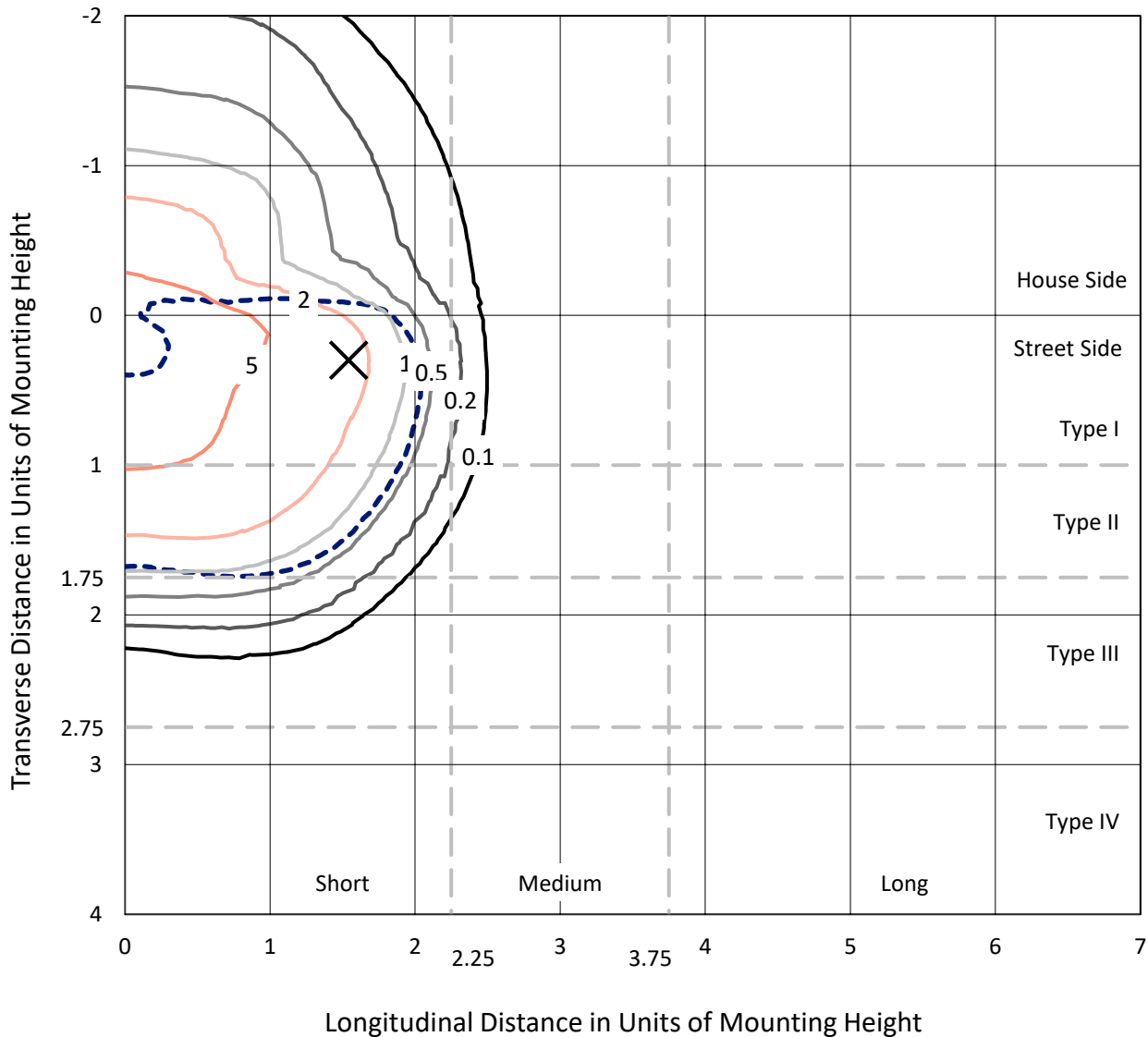


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Iso-Footcandle Lines of Horizontal Illumination

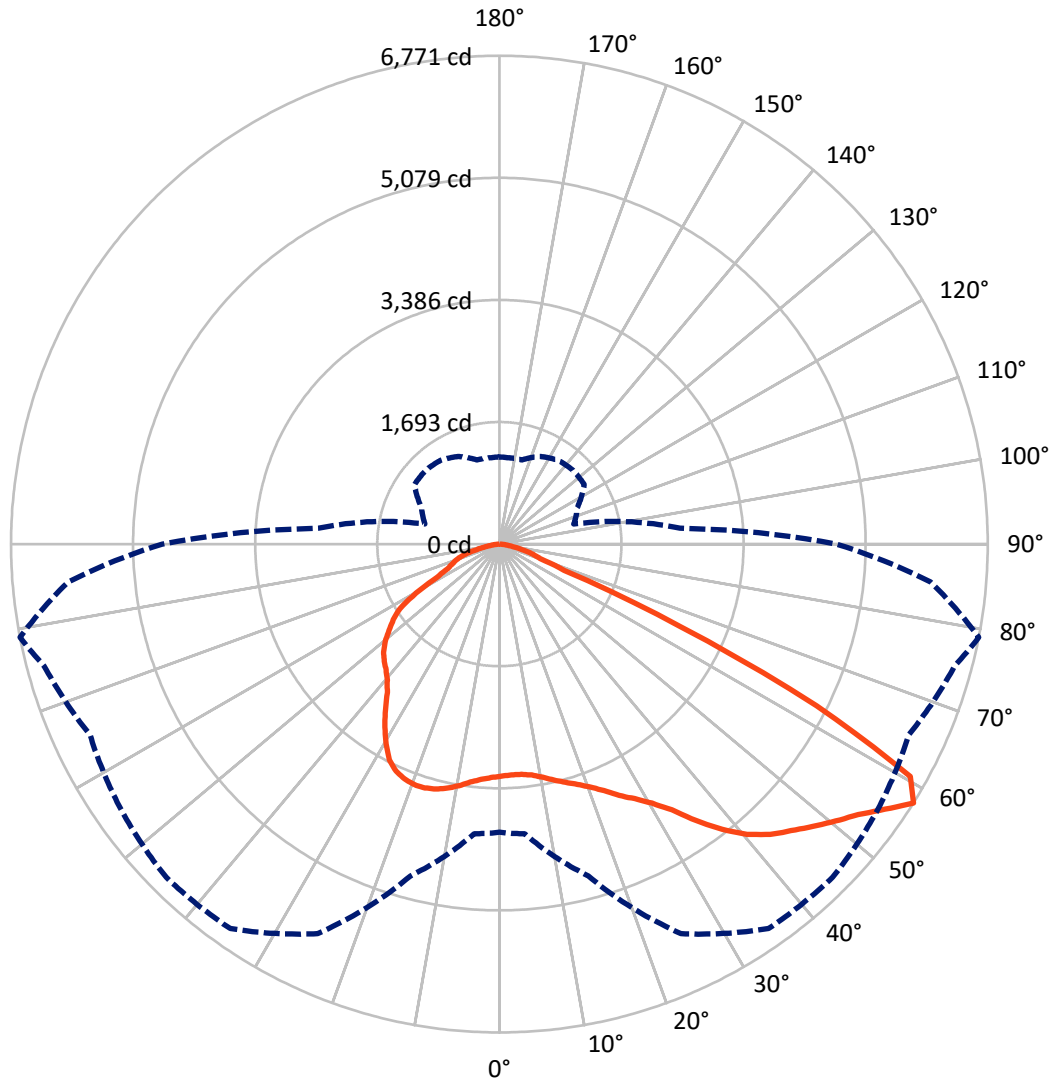
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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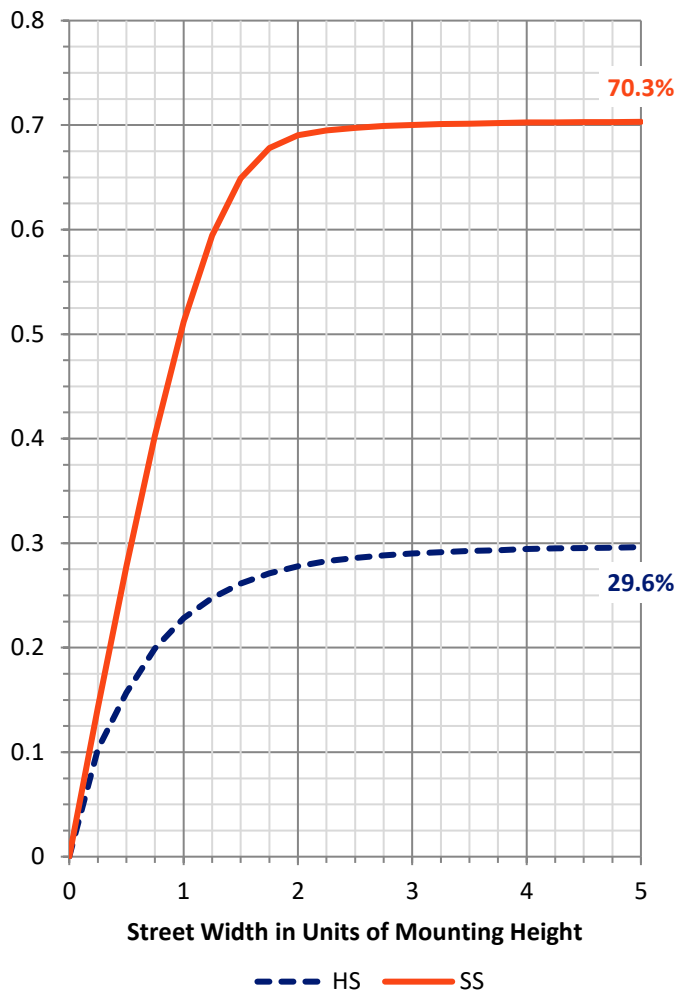
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.6	0.0	3858.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	9122.3	0.0	9122.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	12980.9	0.0	12980.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.9	2.3
10°-20°	827.9	6.4
20°-30°	1403.4	10.8
30°-40°	2148.0	16.5
40°-50°	2864.2	22.1
50°-60°	3307.9	25.5
60°-70°	1718.9	13.2
70°-80°	365.4	2.8
80°-90°	47.3	0.4
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°	12980.9	100.0
0°-180°	12980.9	100.0

Coefficient of Utilization



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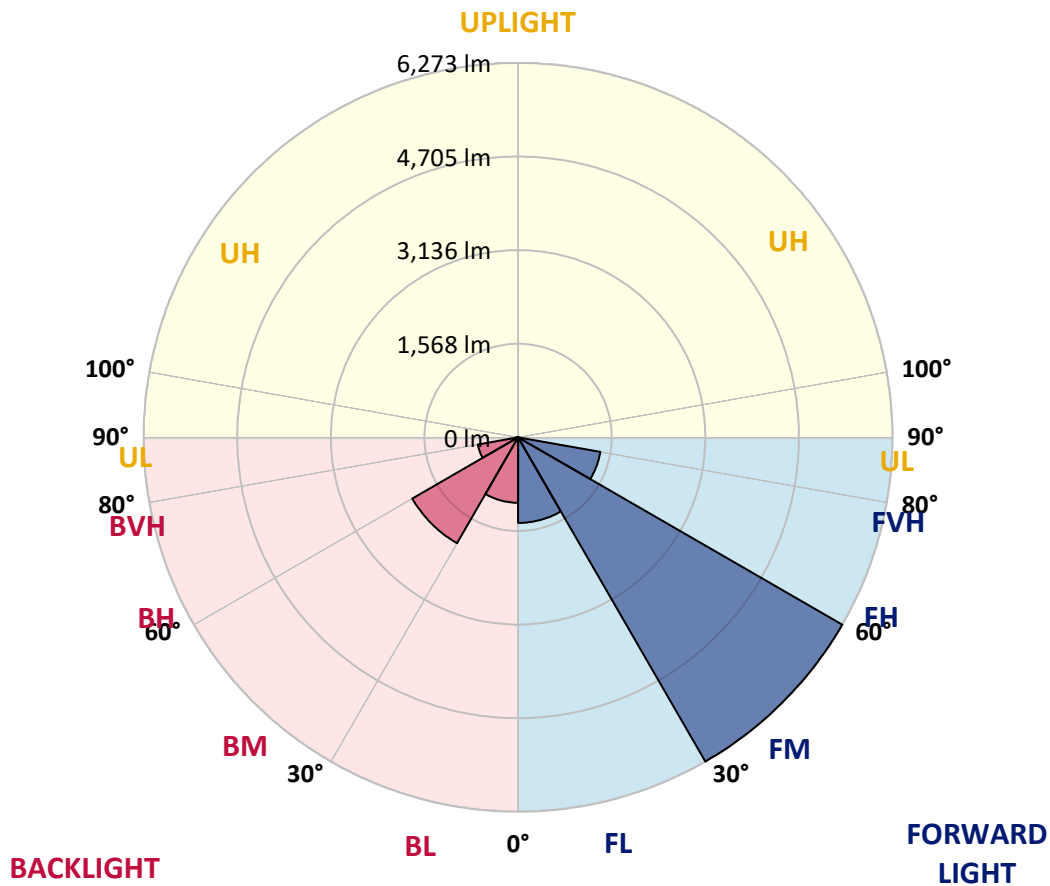
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.4	11.0			
FM (30°-60°)	6272.7	48.3			
FH (60°-80°)	1399.7	10.8			G1/1800
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1095.8	8.4	B3/2500		
BM (30°-60°)	2047.4	15.8	B2/2500		
BH (60°-80°)	684.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0
2.5°	3070.5	3064.1	3066.3	3074.7	3106.6	3129.9	3154.3	3176.6	3197.9	3204.2	3209.5
5°	2961.2	2949.5	2952.7	2966.5	3003.6	3042.9	3086.4	3139.5	3190.4	3207.4	3229.7
7.5°	2883.7	2881.6	2886.9	2908.1	2947.4	2984.5	3040.8	3116.1	3204.2	3232.9	3272.2
10°	2780.8	2776.5	2797.7	2841.2	2906.0	2965.4	3032.3	3121.4	3244.6	3287.0	3347.5
12.5°	2699.0	2696.9	2719.2	2779.7	2862.5	2956.9	3049.3	3149.0	3298.7	3357.1	3431.4
15°	2746.8	2737.2	2738.3	2780.8	2855.0	2966.5	3091.7	3198.9	3352.8	3427.1	3522.6
17.5°	2885.8	2868.8	2856.1	2863.5	2906.0	3021.7	3156.5	3265.8	3415.4	3502.5	3619.2
20°	3077.9	3068.4	3033.4	3010.0	3019.6	3121.4	3258.4	3360.3	3497.2	3594.8	3720.0
22.5°	3335.8	3312.5	3264.7	3227.6	3198.9	3278.5	3404.8	3492.9	3610.7	3712.6	3843.2
25°	3655.3	3621.3	3546.0	3487.6	3426.1	3507.8	3620.3	3687.1	3766.7	3861.2	3985.4
27.5°	3981.1	3952.5	3868.6	3790.1	3713.7	3764.6	3898.4	3936.6	3928.1	3997.1	4103.2
30°	4328.2	4292.1	4212.5	4127.6	4028.9	4061.8	4181.7	4200.8	4110.6	4167.9	4240.1
32.5°	4694.4	4659.3	4590.4	4491.7	4380.2	4392.9	4425.9	4443.9	4357.9	4390.8	4446.0
35°	5066.9	5034.0	4964.0	4866.3	4784.6	4707.1	4624.3	4696.5	4646.6	4710.3	4706.0
37.5°	5407.6	5374.7	5331.2	5255.8	5115.7	4962.9	4771.9	4861.0	4938.5	5019.1	5005.4
40°	5637.9	5615.6	5626.2	5614.6	5434.1	5131.7	4844.0	4941.7	5152.9	5290.9	5283.4
42.5°	5836.4	5814.1	5875.7	5920.2	5708.0	5287.7	4879.0	4972.4	5289.8	5505.2	5494.6
45°	5924.5	5918.1	6020.0	6161.2	5958.4	5453.2	4969.3	5036.1	5393.8	5669.8	5629.4
47.5°	5819.4	5841.7	6042.3	6281.1	6166.5	5649.6	5153.9	5170.9	5529.7	5848.1	5734.5
50°	5610.3	5659.1	5929.8	6284.3	6318.2	5871.4	5409.7	5367.3	5712.2	6038.0	5789.7
52.5°	5305.7	5356.7	5798.2	6259.9	6405.3	6128.3	5750.4	5689.9	5942.5	6228.0	5799.2
55°	4606.3	4675.3	5496.8	6204.7	6490.2	6361.8	6134.6	6011.5	6239.7	6489.1	5893.7
57.5°	3996.0	4032.1	4762.3	5959.5	6507.2	6533.7	6408.5	6262.0	6534.8	6771.4	5999.8
60°	2932.5	2941.0	3598.0	4931.1	5986.0	6433.9	6386.2	6168.6	6394.7	6545.4	5513.7
62.5°	1656.8	1657.8	2182.1	3291.3	4471.5	5244.2	5273.9	5081.8	4891.8	4936.4	3837.9
65°	622.0	680.3	996.6	1617.5	2578.0	3096.0	3219.1	3263.7	2947.4	2751.0	2058.0
67.5°	416.1	429.8	581.6	832.1	1147.3	1324.6	1481.7	1485.9	1086.8	969.0	810.9
70°	317.3	331.1	457.4	595.4	581.6	537.0	580.6	564.6	583.7	599.7	616.6
72.5°	236.7	250.5	354.5	420.3	349.2	343.9	389.5	433.0	473.4	490.3	516.9
75°	157.1	167.7	238.8	225.0	193.2	228.2	284.4	328.0	351.3	371.5	391.6
77.5°	99.8	107.2	127.4	103.0	107.2	133.7	165.6	204.8	227.1	247.3	257.9
80°	45.6	44.6	43.5	48.8	60.5	78.5	99.8	123.1	140.1	148.6	155.0
82.5°	18.0	20.2	22.3	26.5	32.9	42.5	56.3	72.2	86.0	88.1	93.4
85°	7.4	8.5	9.6	11.7	14.9	19.1	23.3	32.9	41.4	44.6	47.8
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	3.2	5.3	9.6	10.6	11.7
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°	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0	3217.0
2.5°	3238.2	3224.4	3247.7	3263.7	3278.5	3262.6	3257.3	3243.5	3241.4	3241.4	3248.8
5°	3267.9	3258.4	3282.8	3292.3	3291.3	3256.2	3235.0	3207.4	3193.6	3193.6	3195.7
7.5°	3321.0	3315.7	3329.5	3314.6	3280.6	3209.5	3139.5	3081.1	3041.8	3021.7	3028.0
10°	3409.1	3402.7	3391.0	3335.8	3238.2	3090.7	2947.4	2841.2	2777.6	2741.5	2743.6
12.5°	3495.0	3484.4	3443.0	3321.0	3120.4	2885.8	2698.0	2579.1	2509.0	2466.6	2457.0
15°	3589.5	3561.9	3472.8	3244.6	2928.3	2635.3	2439.0	2310.6	2235.2	2209.7	2208.7
17.5°	3679.7	3630.9	3469.6	3108.7	2698.0	2373.2	2175.8	2096.2	2083.4	2095.1	2098.3
20°	3771.0	3692.5	3434.5	2920.8	2424.1	2112.1	2010.2	2043.1	2090.9	2122.7	2130.1
22.5°	3865.5	3743.4	3354.9	2678.9	2135.4	1935.9	1978.4	2050.5	2110.0	2152.4	2156.7
25°	3971.6	3791.2	3236.1	2382.7	1904.1	1887.1	1970.9	2047.4	2111.0	2159.9	2168.3
27.5°	4032.1	3792.2	3069.4	2078.1	1797.9	1868.0	1952.9	2025.1	2088.7	2141.8	2151.4
30°	4091.5	3763.6	2805.2	1830.8	1767.2	1845.7	1922.1	1989.0	2049.5	2101.5	2113.2
32.5°	4175.4	3737.0	2500.6	1688.6	1749.1	1824.5	1887.1	1946.5	1993.2	2016.6	2022.9
35°	4279.4	3703.1	2176.8	1627.1	1737.4	1807.5	1862.7	1894.5	1834.0	1821.3	1835.1
37.5°	4424.8	3671.2	1854.2	1600.5	1730.0	1801.1	1849.9	1768.2	1693.9	1664.2	1674.8
40°	4581.9	3653.2	1635.5	1579.3	1733.2	1807.5	1796.9	1675.9	1568.7	1506.1	1503.9
42.5°	4715.6	3625.6	1495.4	1565.5	1741.7	1831.9	1724.7	1594.2	1435.0	1397.8	1398.9
45°	4805.8	3555.5	1421.2	1550.6	1749.1	1837.2	1690.7	1481.7	1368.1	1344.7	1343.7
47.5°	4843.0	3428.2	1373.4	1527.3	1748.1	1793.7	1621.8	1435.0	1321.4	1315.0	1319.3
50°	4818.6	3219.1	1324.6	1481.7	1722.6	1748.1	1542.1	1393.6	1289.5	1324.6	1350.0
52.5°	4728.3	2948.4	1266.2	1419.0	1676.9	1696.0	1501.8	1368.1	1266.2	1312.9	1333.1
55°	4705.0	2728.7	1191.9	1337.3	1609.0	1603.7	1459.4	1355.4	1250.3	1232.2	1235.4
57.5°	4674.2	2514.4	1068.8	1190.8	1437.1	1445.6	1419.0	1340.5	1208.9	1203.6	1208.9
60°	4060.7	1927.4	953.1	1027.4	1180.2	1225.9	1373.4	1312.9	1142.0	1119.7	1118.7
62.5°	2652.3	1167.5	848.0	895.8	961.6	1014.7	1252.4	1233.3	1068.8	1055.0	1064.5
65°	1426.5	832.1	771.6	800.3	836.3	876.7	1038.0	1098.5	965.8	917.0	918.1
67.5°	729.2	707.9	714.3	734.5	762.1	782.2	837.4	890.5	823.6	782.2	781.2
70°	624.1	641.1	650.6	662.3	680.3	677.1	682.5	692.0	686.7	666.5	665.5
72.5°	531.7	558.3	560.4	562.5	568.9	554.0	544.5	528.6	529.6	532.8	533.9
75°	404.4	429.8	436.2	433.0	439.4	420.3	407.6	391.6	372.5	369.4	371.5
77.5°	263.2	283.4	292.9	290.8	294.0	279.1	272.8	255.8	233.5	225.0	225.0
80°	159.2	170.9	178.3	180.4	183.6	173.0	162.4	147.5	138.0	128.4	128.4
82.5°	96.6	104.0	109.3	109.3	112.5	100.8	92.3	81.7	77.5	69.0	69.0
85°	48.8	54.1	56.3	55.2	53.1	43.5	40.3	35.0	32.9	28.7	28.7
87.5°	11.7	14.9	14.9	10.6	10.6	5.3	3.2	1.1	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)