

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: P636796

Luminaire Tested: GWS-SA4B-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636796
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12690.1 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

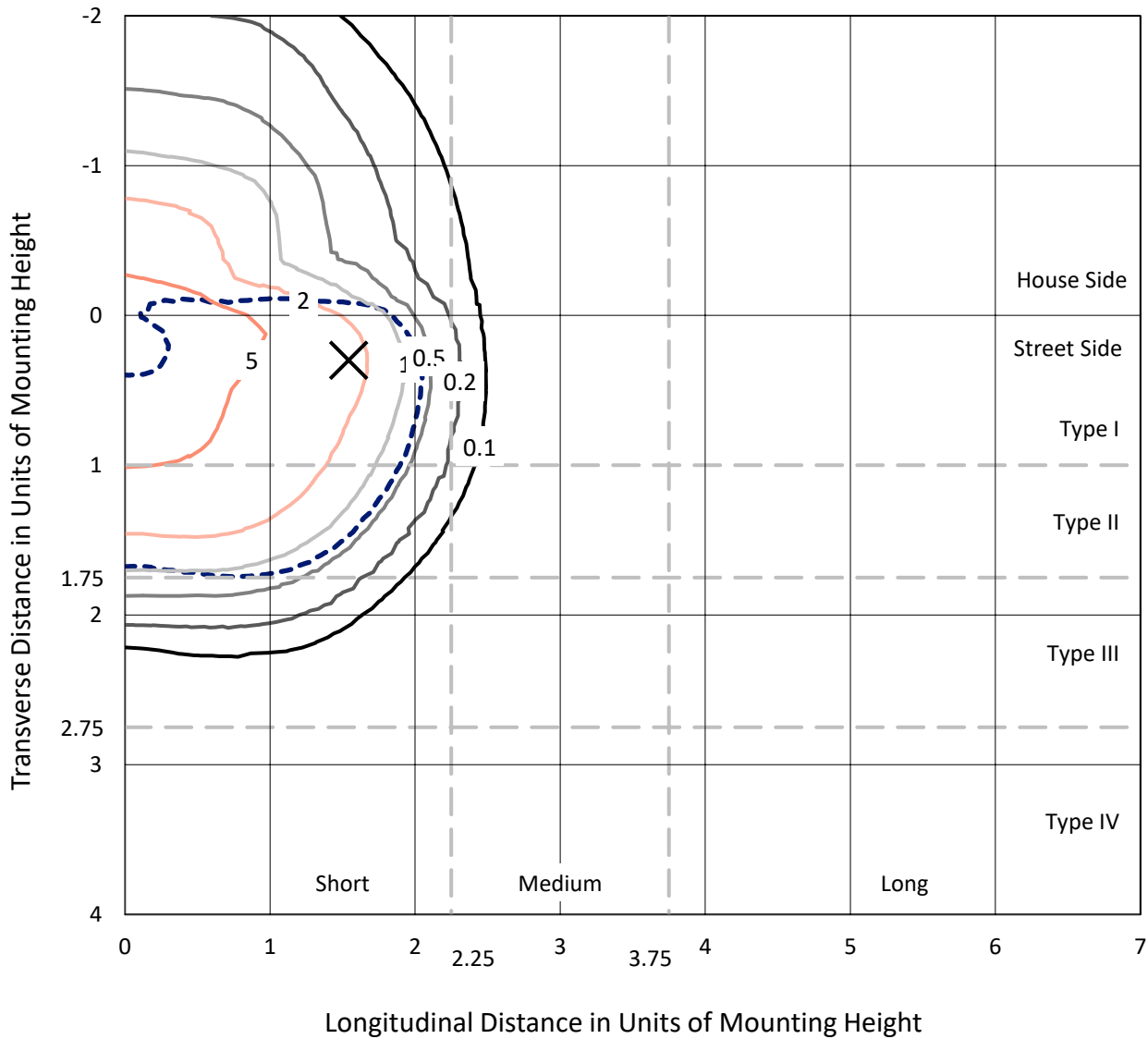
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

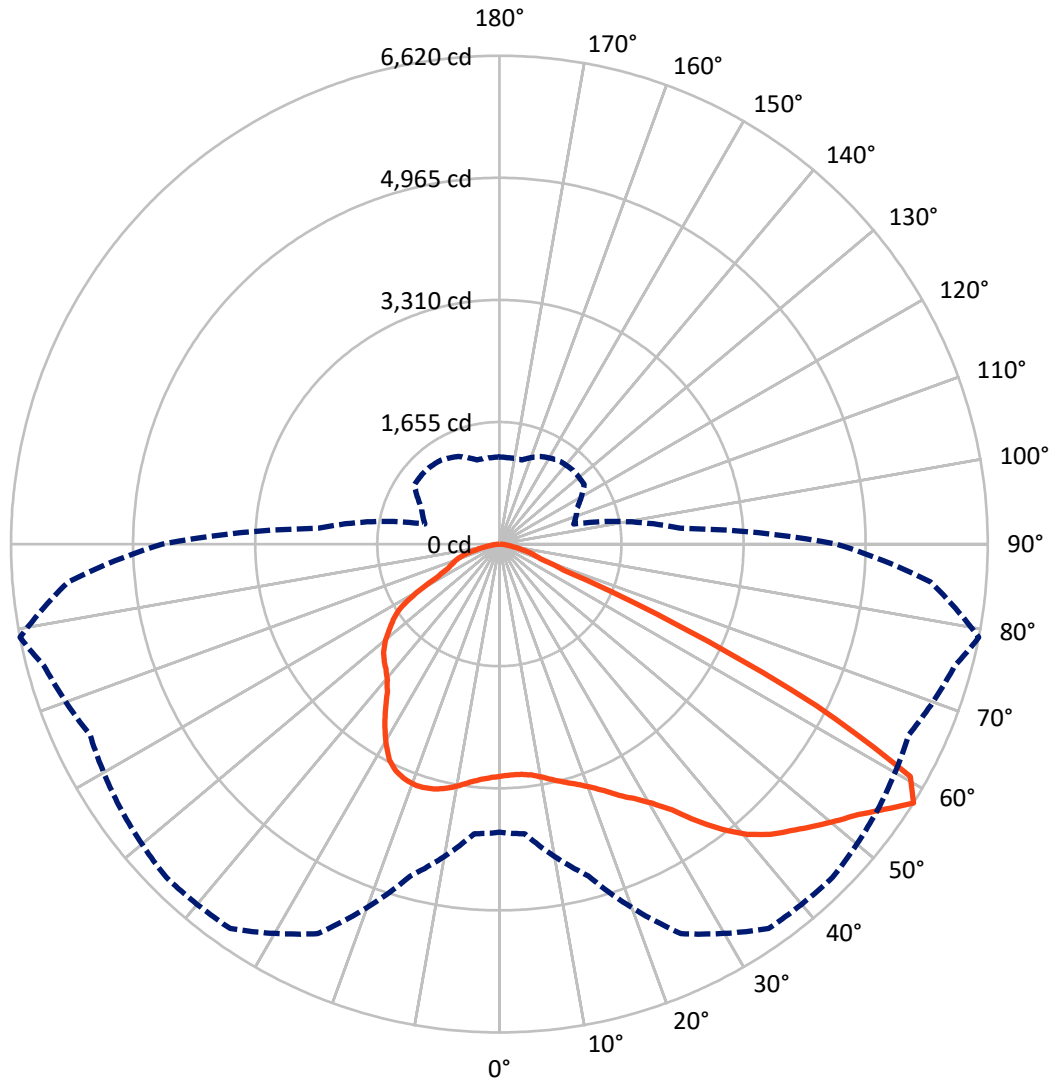
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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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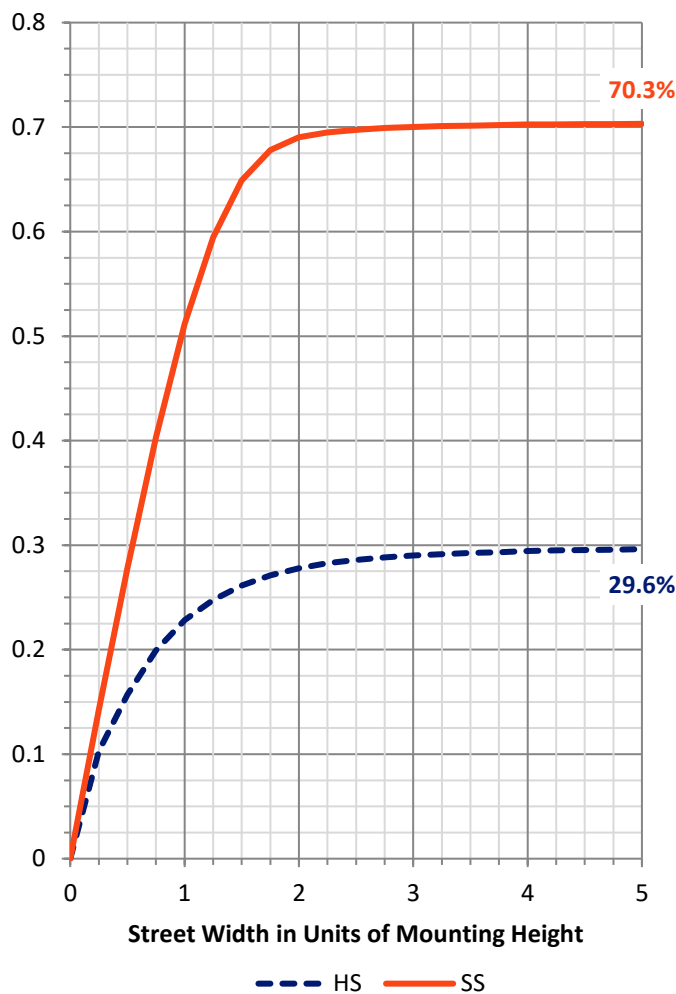
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3772.2	0.0	3772.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	8917.9	0.0	8917.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	12690.1	0.0	12690.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	2.3
10°-20°	809.4	6.4
20°-30°	1371.9	10.8
30°-40°	2099.9	16.5
40°-50°	2800.0	22.1
50°-60°	3233.8	25.5
60°-70°	1680.4	13.2
70°-80°	357.2	2.8
80°-90°	46.3	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°	12690.1	100.0
0°-180°	12690.1	100.0

Coefficient of Utilization



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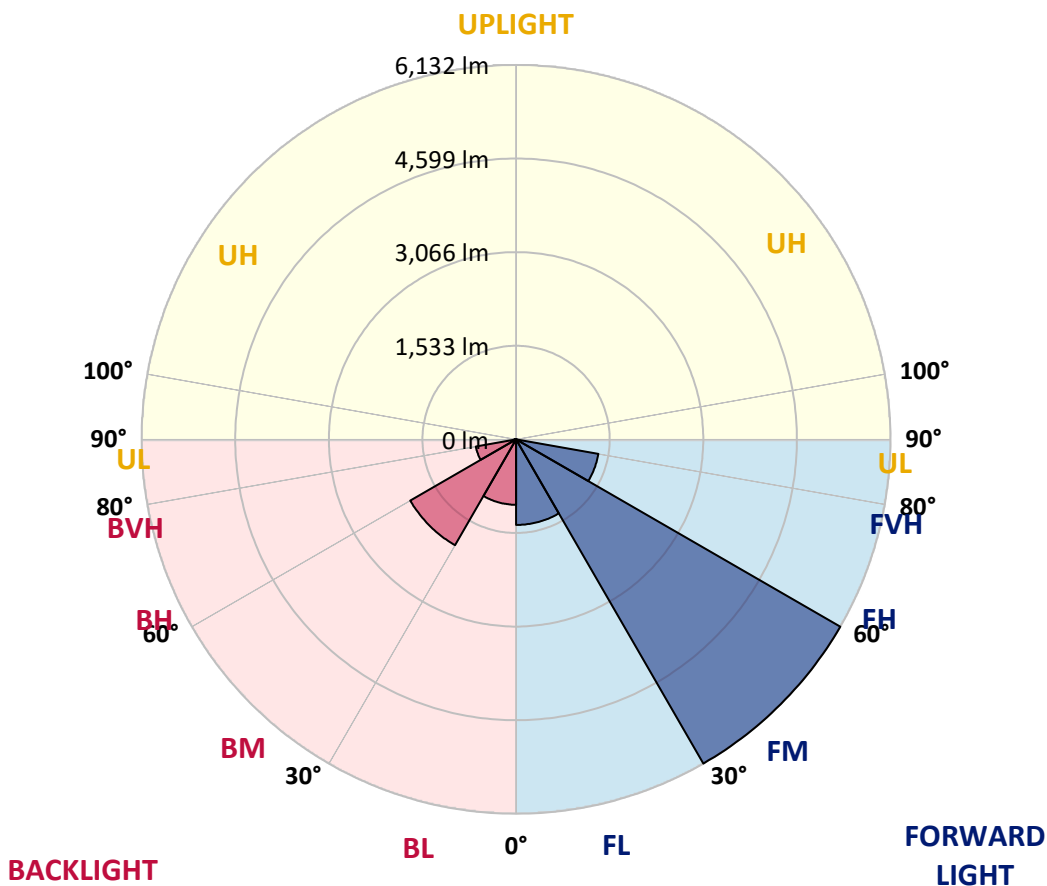
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.3	11.0			
FM (30°-60°)	6132.2	48.3			
FH (60°-80°)	1368.3	10.8			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1071.3	8.4	B3/2500		
BM (30°-60°)	2001.5	15.8	B2/2500		
BH (60°-80°)	669.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.1	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°	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9
2.5°	3001.7	2995.5	2997.6	3005.9	3037.0	3059.8	3083.7	3105.5	3126.2	3132.4	3137.6
5°	2894.8	2883.4	2886.5	2900.0	2936.3	2974.7	3017.3	3069.2	3119.0	3135.6	3157.4
7.5°	2819.1	2817.0	2822.2	2843.0	2881.4	2917.7	2972.7	3046.3	3132.4	3160.5	3198.9
10°	2718.5	2714.3	2735.1	2777.6	2840.9	2899.0	2964.4	3051.5	3171.9	3213.4	3272.5
12.5°	2638.6	2636.5	2658.3	2717.4	2798.3	2890.7	2981.0	3078.5	3224.8	3281.9	3354.5
15°	2685.3	2675.9	2677.0	2718.5	2791.1	2900.0	3022.5	3127.3	3277.7	3350.3	3443.7
17.5°	2821.2	2804.6	2792.1	2799.4	2840.9	2954.0	3085.8	3192.6	3338.9	3424.0	3538.1
20°	3009.0	2999.6	2965.4	2942.6	2951.9	3051.5	3185.4	3285.0	3418.8	3514.3	3636.7
22.5°	3261.1	3238.3	3191.6	3155.3	3127.3	3205.1	3328.6	3414.7	3529.8	3629.4	3757.1
25°	3573.4	3540.2	3466.5	3409.5	3349.3	3429.2	3539.2	3604.5	3682.4	3774.7	3896.1
27.5°	3892.0	3863.9	3782.0	3705.2	3630.5	3680.3	3811.0	3848.4	3840.1	3907.5	4011.3
30°	4231.2	4196.0	4118.1	4035.1	3938.6	3970.8	4088.1	4106.7	4018.5	4074.6	4145.1
32.5°	4589.2	4555.0	4487.5	4391.0	4282.1	4294.5	4326.7	4344.3	4260.3	4292.5	4346.4
35°	4953.4	4921.2	4852.8	4757.3	4677.4	4601.7	4520.7	4591.3	4542.5	4604.8	4600.6
37.5°	5286.5	5254.3	5211.8	5138.1	5001.1	4851.7	4665.0	4752.1	4827.9	4906.7	4893.2
40°	5511.6	5489.8	5500.2	5488.8	5312.4	5016.7	4735.5	4831.0	5037.4	5172.3	5165.1
42.5°	5705.6	5683.9	5744.0	5787.6	5580.1	5169.2	4769.7	4861.1	5171.3	5381.9	5371.5
45°	5791.8	5785.5	5885.1	6023.1	5825.0	5331.1	4857.9	4923.3	5273.0	5542.7	5503.3
47.5°	5689.0	5710.8	5906.9	6140.4	6028.3	5523.0	5038.5	5055.1	5405.8	5717.1	5606.0
50°	5484.6	5532.4	5797.0	6143.5	6176.7	5739.9	5288.5	5247.0	5584.2	5902.8	5660.0
52.5°	5186.9	5236.7	5668.3	6119.6	6261.8	5991.0	5621.6	5562.5	5809.4	6088.5	5669.3
55°	4503.1	4570.5	5373.6	6065.7	6344.8	6219.2	5997.2	5876.8	6099.9	6343.8	5761.7
57.5°	3906.5	3941.8	4655.6	5826.0	6361.4	6387.3	6264.9	6121.7	6388.4	6619.8	5865.4
60°	2866.8	2875.1	3517.4	4820.6	5851.9	6289.8	6243.1	6030.4	6251.4	6398.7	5390.2
62.5°	1619.7	1620.7	2133.3	3217.5	4371.3	5126.7	5155.7	4967.9	4782.2	4825.8	3751.9
65°	608.0	665.1	974.3	1581.3	2520.3	3026.6	3147.0	3190.6	2881.4	2689.4	2011.9
67.5°	406.7	420.2	568.6	813.5	1121.6	1294.9	1448.5	1452.6	1062.5	947.3	792.7
70°	310.2	323.7	447.2	582.1	568.6	525.0	567.6	552.0	570.7	586.2	602.8
72.5°	231.4	244.9	346.6	410.9	341.4	336.2	380.8	423.3	462.8	479.4	505.3
75°	153.6	163.9	233.5	220.0	188.8	223.1	278.1	320.6	343.4	363.2	382.9
77.5°	97.5	104.8	124.5	100.6	104.8	130.7	161.9	200.3	222.0	241.8	252.1
80°	44.6	43.6	42.5	47.7	59.1	76.8	97.5	120.4	137.0	145.3	151.5
82.5°	17.6	19.7	21.8	25.9	32.2	41.5	55.0	70.6	84.0	86.1	91.3
85°	7.3	8.3	9.3	11.4	14.5	18.7	22.8	32.2	40.5	43.6	46.7
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	3.1	5.2	9.3	10.4	11.4
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°	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9	3144.9
2.5°	3165.7	3152.2	3175.0	3190.6	3205.1	3189.5	3184.3	3170.8	3168.8	3168.8	3176.0
5°	3194.7	3185.4	3209.2	3218.6	3217.5	3183.3	3162.5	3135.6	3122.1	3122.1	3124.1
7.5°	3246.6	3241.4	3254.9	3240.4	3207.2	3137.6	3069.2	3012.1	2973.7	2954.0	2960.2
10°	3332.7	3326.5	3315.1	3261.1	3165.7	3021.4	2881.4	2777.6	2715.3	2680.1	2682.1
12.5°	3416.7	3406.4	3365.9	3246.6	3050.5	2821.2	2637.5	2521.3	2452.8	2411.3	2402.0
15°	3509.1	3482.1	3395.0	3171.9	2862.7	2576.3	2384.4	2258.8	2185.1	2160.2	2159.2
17.5°	3597.3	3549.6	3391.8	3039.1	2637.5	2320.0	2127.0	2049.2	2036.8	2048.2	2051.3
20°	3686.5	3609.7	3357.6	2855.4	2369.8	2064.8	1965.2	1997.3	2044.0	2075.2	2082.4
22.5°	3778.9	3659.5	3279.8	2618.8	2087.6	1892.5	1934.0	2004.6	2062.7	2104.2	2108.4
25°	3882.6	3706.2	3163.6	2329.4	1861.4	1844.8	1926.8	2001.5	2063.7	2111.5	2119.8
27.5°	3941.8	3707.3	3000.7	2031.6	1757.7	1826.1	1909.1	1979.7	2042.0	2093.8	2103.2
30°	3999.9	3679.3	2742.3	1789.8	1727.6	1804.3	1879.1	1944.4	2003.6	2054.4	2065.8
32.5°	4081.8	3653.3	2444.5	1650.8	1709.9	1783.6	1844.8	1902.9	1948.6	1971.4	1977.6
35°	4183.5	3620.1	2128.1	1590.6	1698.5	1767.0	1821.0	1852.1	1792.9	1780.5	1794.0
37.5°	4325.7	3589.0	1812.6	1564.7	1691.3	1760.8	1808.5	1728.6	1656.0	1626.9	1637.3
40°	4479.2	3571.3	1598.9	1543.9	1694.4	1767.0	1756.6	1638.3	1533.5	1472.3	1470.2
42.5°	4610.0	3544.4	1461.9	1530.4	1702.7	1790.9	1686.1	1558.4	1402.8	1366.5	1367.5
45°	4698.2	3475.9	1389.3	1515.9	1709.9	1796.0	1652.9	1448.5	1337.4	1314.6	1313.6
47.5°	4734.5	3351.4	1342.6	1493.1	1708.9	1753.5	1585.4	1402.8	1291.8	1285.6	1289.7
50°	4710.6	3147.0	1294.9	1448.5	1684.0	1708.9	1507.6	1362.3	1260.7	1294.9	1319.8
52.5°	4622.4	2882.4	1237.8	1387.2	1639.4	1658.1	1468.2	1337.4	1237.8	1283.5	1303.2
55°	4599.6	2667.6	1165.2	1307.3	1573.0	1567.8	1426.7	1325.0	1222.3	1204.6	1207.7
57.5°	4569.5	2458.0	1044.8	1164.2	1404.9	1413.2	1387.2	1310.5	1181.8	1176.6	1181.8
60°	3969.8	1884.2	931.7	1004.4	1153.8	1198.4	1342.6	1283.5	1116.4	1094.6	1093.6
62.5°	2592.9	1141.3	829.0	875.7	940.0	991.9	1224.3	1205.7	1044.8	1031.4	1040.7
65°	1394.5	813.5	754.3	782.3	817.6	857.0	1014.8	1073.9	944.2	896.5	897.5
67.5°	712.8	692.1	698.3	718.0	745.0	764.7	818.6	870.5	805.2	764.7	763.7
70°	610.1	626.7	636.0	647.4	665.1	662.0	667.2	676.5	671.3	651.6	650.6
72.5°	519.8	545.8	547.8	549.9	556.1	541.6	532.3	516.7	517.8	520.9	521.9
75°	395.3	420.2	426.4	423.3	429.6	410.9	398.4	382.9	364.2	361.1	363.2
77.5°	257.3	277.0	286.4	284.3	287.4	272.9	266.7	250.1	228.3	220.0	220.0
80°	155.6	167.1	174.3	176.4	179.5	169.1	158.7	144.2	134.9	125.5	125.5
82.5°	94.4	101.7	106.9	106.9	110.0	98.6	90.3	79.9	75.7	67.4	67.4
85°	47.7	52.9	55.0	54.0	51.9	42.5	39.4	34.2	32.2	28.0	28.0
87.5°	11.4	14.5	14.5	10.4	10.4	5.2	3.1	1.0	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)