

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: P633881

Luminaire Tested: GWS-SA2F-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633881
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-SA2F-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14548.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

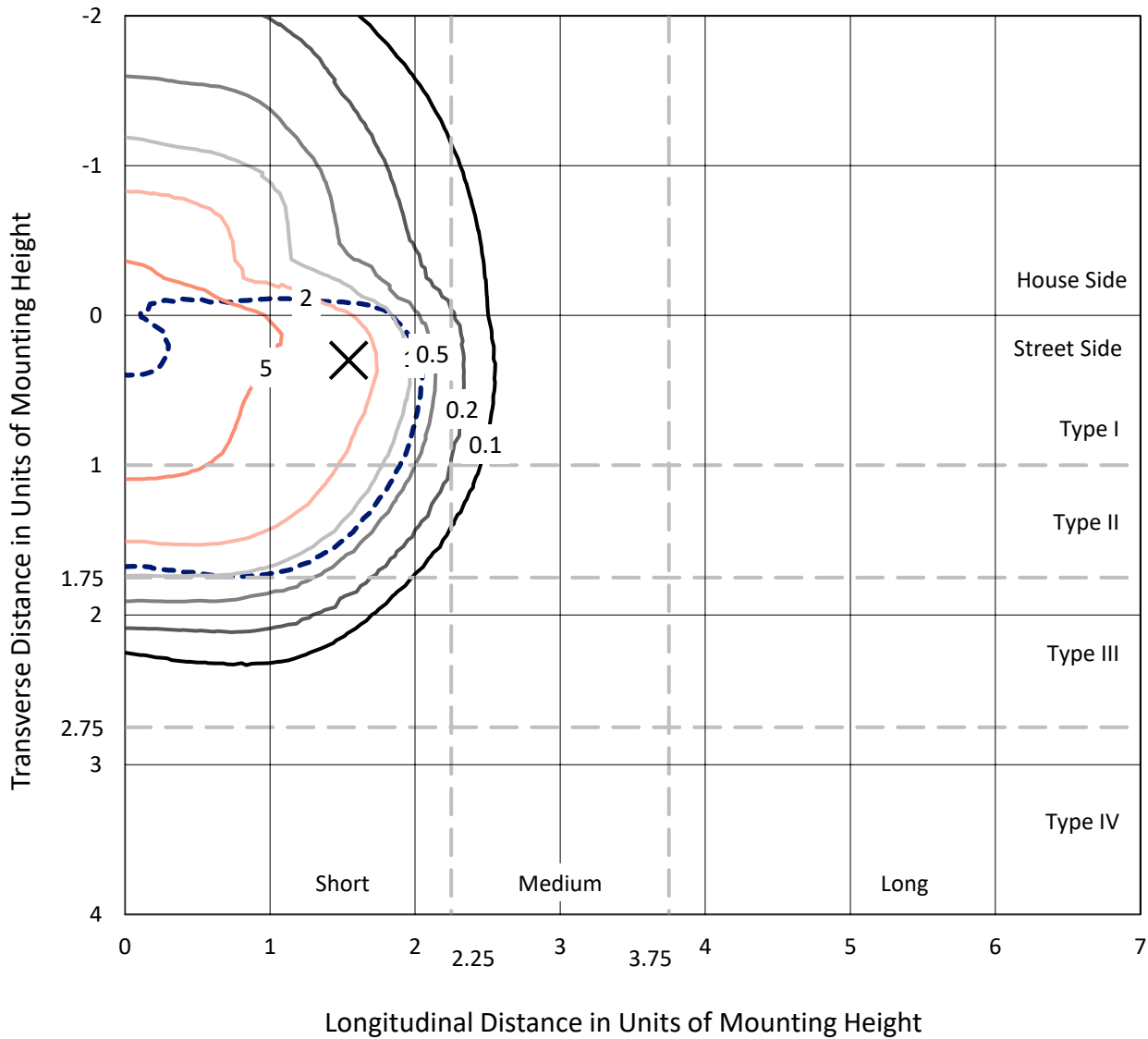
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

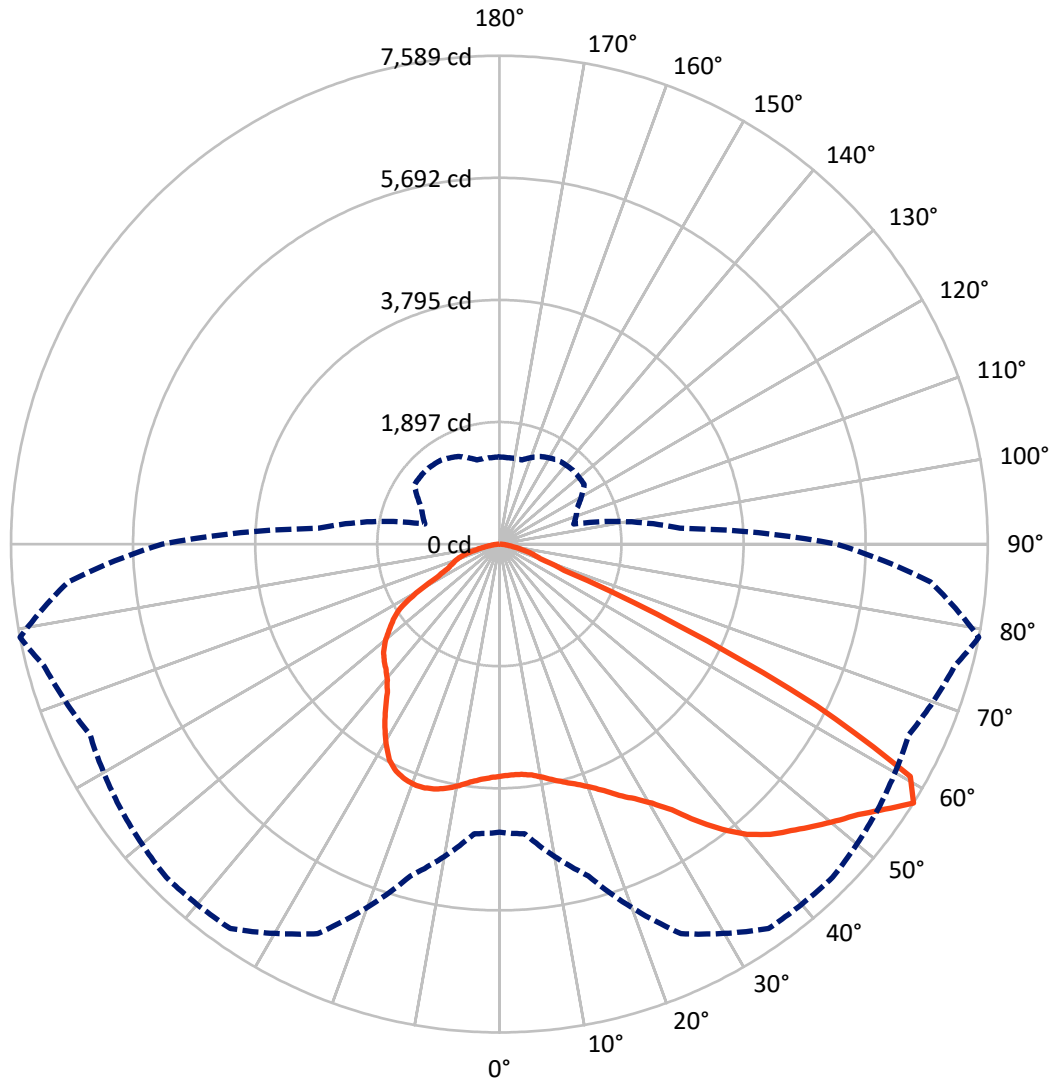
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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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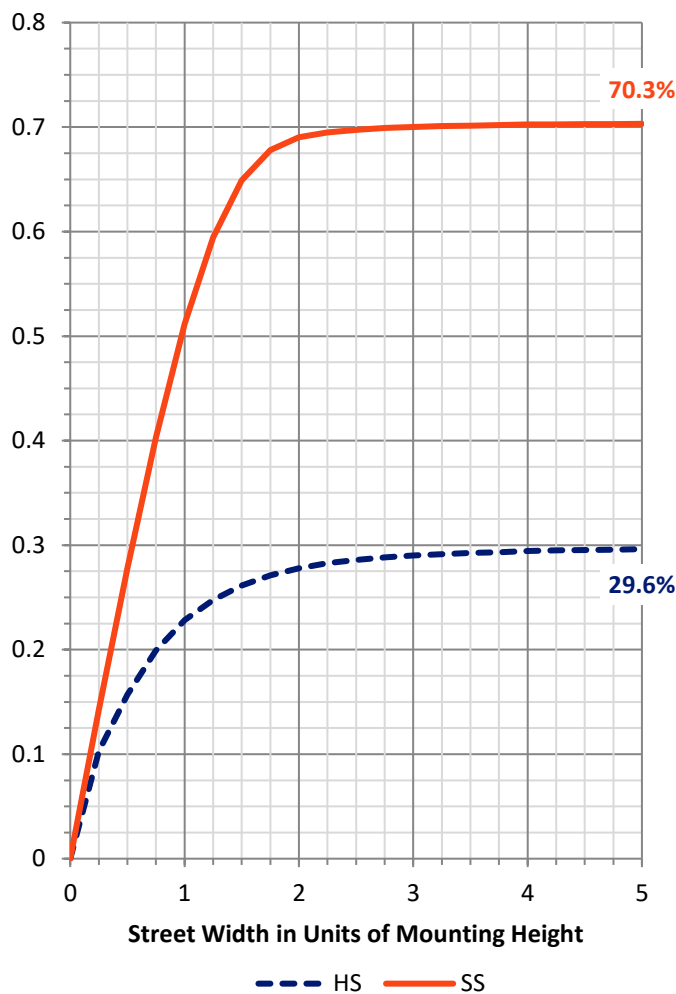
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4324.7	0.0	4324.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10224.1	0.0	10224.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	14548.8	0.0	14548.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	2.3
10°-20°	927.9	6.4
20°-30°	1572.9	10.8
30°-40°	2407.5	16.5
40°-50°	3210.1	22.1
50°-60°	3707.4	25.5
60°-70°	1926.5	13.2
70°-80°	409.5	2.8
80°-90°	53.0	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°	14548.8	100.0
0°-180°	14548.8	100.0

Coefficient of Utilization



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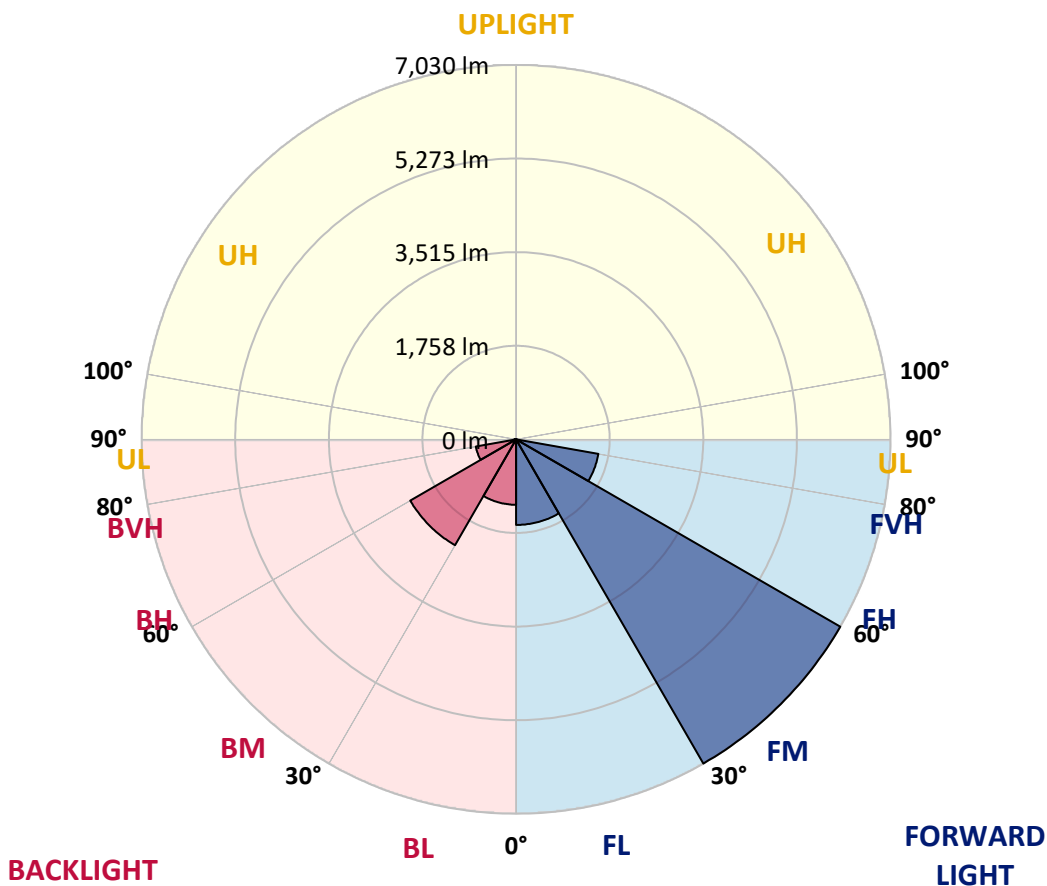
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.5	11.0			
FM (30°-60°)	7030.4	48.3			
FH (60°-80°)	1568.7	10.8			G1/1800
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1228.2	8.4	B3/2500		
BM (30°-60°)	2294.7	15.8	B2/2500		
BH (60°-80°)	767.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.6	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°	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5
2.5°	3441.4	3434.2	3436.6	3446.1	3481.8	3508.0	3535.3	3560.3	3584.1	3591.3	3597.2
5°	3318.8	3305.8	3309.3	3324.8	3366.4	3410.4	3459.2	3518.7	3575.8	3594.8	3619.8
7.5°	3232.0	3229.6	3235.6	3259.4	3303.4	3345.0	3408.1	3492.5	3591.3	3623.4	3667.4
10°	3116.6	3111.9	3135.7	3184.4	3257.0	3323.6	3398.5	3498.5	3636.5	3684.0	3751.8
12.5°	3025.0	3022.6	3047.6	3115.4	3208.2	3314.1	3417.6	3529.4	3697.1	3762.5	3845.8
15°	3078.6	3067.9	3069.0	3116.6	3199.9	3324.8	3465.2	3585.3	3757.8	3841.1	3948.1
17.5°	3234.4	3215.4	3201.1	3209.4	3257.0	3386.7	3537.7	3660.2	3828.0	3925.5	4056.4
20°	3449.7	3439.0	3399.7	3373.6	3384.3	3498.5	3651.9	3766.1	3919.6	4029.0	4169.4
22.5°	3738.8	3712.6	3659.1	3617.4	3585.3	3674.5	3816.1	3914.8	4046.9	4161.0	4307.4
25°	4096.8	4058.7	3974.3	3908.9	3839.9	3931.5	4057.6	4132.5	4221.7	4327.6	4466.8
27.5°	4462.0	4429.9	4335.9	4247.9	4162.2	4219.3	4369.2	4412.0	4402.5	4479.8	4598.8
30°	4851.0	4810.5	4721.3	4626.2	4515.5	4552.4	4686.8	4708.2	4607.1	4671.4	4752.3
32.5°	5261.4	5222.1	5144.8	5034.2	4909.3	4923.6	4960.4	4980.6	4884.3	4921.2	4983.0
35°	5678.9	5642.0	5563.5	5454.1	5362.5	5275.7	5182.9	5263.8	5207.9	5279.2	5274.5
37.5°	6060.8	6023.9	5975.1	5890.7	5733.6	5562.3	5348.2	5448.1	5535.0	5625.4	5609.9
40°	6318.9	6293.9	6305.8	6292.7	6090.5	5751.5	5429.1	5538.5	5775.3	5929.9	5921.6
42.5°	6541.3	6516.4	6585.4	6635.3	6397.4	5926.3	5468.4	5573.0	5928.7	6170.2	6158.3
45°	6640.1	6632.9	6747.1	6905.3	6678.1	6111.9	5569.5	5644.4	6045.3	6354.6	6309.4
47.5°	6522.3	6547.3	6772.1	7039.8	6911.3	6332.0	5776.5	5795.5	6197.6	6554.4	6427.1
50°	6288.0	6342.7	6646.0	7043.3	7081.4	6580.6	6063.1	6015.6	6402.2	6767.4	6489.0
52.5°	5946.6	6003.7	6498.5	7016.0	7178.9	6868.5	6445.0	6377.2	6660.3	6980.3	6499.7
55°	5162.7	5240.0	6160.7	6954.1	7274.1	7130.2	6875.6	6737.6	6993.4	7272.9	6605.6
57.5°	4478.7	4519.1	5337.5	6679.3	7293.1	7322.9	7182.5	7018.4	7324.1	7589.3	6724.5
60°	3286.7	3296.2	4032.6	5526.7	6709.1	7211.1	7157.5	6913.7	7167.0	7336.0	6179.7
62.5°	1856.9	1858.1	2445.7	3688.8	5011.6	5877.6	5910.9	5695.6	5482.6	5532.6	4301.4
65°	697.1	762.5	1117.0	1812.9	2889.4	3469.9	3607.9	3657.9	3303.4	3083.3	2306.5
67.5°	466.3	481.8	651.9	932.6	1285.9	1484.6	1660.6	1665.4	1218.1	1086.1	908.8
70°	355.7	371.1	512.7	667.3	651.9	601.9	650.7	632.8	654.3	672.1	691.1
72.5°	265.3	280.7	397.3	471.1	391.4	385.4	436.6	485.3	530.5	549.6	579.3
75°	176.1	187.9	267.6	252.2	216.5	255.8	318.8	367.6	393.7	416.3	438.9
77.5°	111.8	120.1	142.7	115.4	120.1	149.9	185.6	229.6	254.6	277.2	289.1
80°	51.2	50.0	48.8	54.7	67.8	88.0	111.8	138.0	157.0	166.5	173.7
82.5°	20.2	22.6	25.0	29.7	36.9	47.6	63.0	80.9	96.4	98.7	104.7
85°	8.3	9.5	10.7	13.1	16.7	21.4	26.2	36.9	46.4	50.0	53.5
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	3.6	5.9	10.7	11.9	13.1
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°	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5	3605.5
2.5°	3629.3	3613.9	3640.0	3657.9	3674.5	3656.7	3650.7	3635.3	3632.9	3632.9	3641.2
5°	3662.6	3651.9	3679.3	3690.0	3688.8	3649.5	3625.8	3594.8	3579.4	3579.4	3581.7
7.5°	3722.1	3716.2	3731.6	3715.0	3676.9	3597.2	3518.7	3453.3	3409.3	3386.7	3393.8
10°	3820.8	3813.7	3800.6	3738.8	3629.3	3464.0	3303.4	3184.4	3113.1	3072.6	3075.0
12.5°	3917.2	3905.3	3858.9	3722.1	3497.3	3234.4	3023.8	2890.6	2812.1	2764.5	2753.8
15°	4023.1	3992.1	3892.2	3636.5	3282.0	2953.7	2733.6	2589.7	2505.2	2476.6	2475.5
17.5°	4124.2	4069.5	3888.6	3484.2	3023.8	2659.8	2438.6	2349.4	2335.1	2348.2	2351.7
20°	4226.5	4138.4	3849.4	3273.6	2716.9	2367.2	2253.0	2289.9	2343.4	2379.1	2387.4
22.5°	4332.3	4195.5	3760.2	3002.4	2393.4	2169.7	2217.3	2298.2	2364.8	2412.4	2417.2
25°	4451.3	4249.1	3626.9	2670.5	2134.1	2115.0	2209.0	2294.6	2366.0	2420.7	2430.3
27.5°	4519.1	4250.3	3440.2	2329.1	2015.1	2093.6	2188.8	2269.7	2341.0	2400.5	2411.2
30°	4585.7	4218.1	3144.0	2052.0	1980.6	2068.6	2154.3	2229.2	2297.0	2355.3	2368.4
32.5°	4679.7	4188.4	2802.6	1892.6	1960.4	2044.8	2115.0	2181.6	2234.0	2260.1	2267.3
35°	4796.3	4150.3	2439.8	1823.6	1947.3	2025.8	2087.7	2123.3	2055.5	2041.3	2056.7
37.5°	4959.2	4114.7	2078.1	1793.8	1939.0	2018.7	2073.4	1981.8	1898.5	1865.2	1877.1
40°	5135.3	4094.4	1833.1	1770.1	1942.5	2025.8	2013.9	1878.3	1758.2	1688.0	1685.6
42.5°	5285.2	4063.5	1676.1	1754.6	1952.1	2053.2	1933.0	1786.7	1608.3	1566.6	1567.8
45°	5386.3	3985.0	1592.8	1737.9	1960.4	2059.1	1895.0	1660.6	1533.3	1507.2	1506.0
47.5°	5427.9	3842.2	1539.3	1711.8	1959.2	2010.3	1817.6	1608.3	1481.0	1473.9	1478.6
50°	5400.6	3607.9	1484.6	1660.6	1930.6	1959.2	1728.4	1561.9	1445.3	1484.6	1513.1
52.5°	5299.4	3304.6	1419.1	1590.4	1879.5	1900.9	1683.2	1533.3	1419.1	1471.5	1494.1
55°	5273.3	3058.3	1335.9	1498.8	1803.4	1797.4	1635.6	1519.1	1401.3	1381.1	1384.6
57.5°	5238.8	2818.0	1197.9	1334.7	1610.7	1620.2	1590.4	1502.4	1354.9	1349.0	1354.9
60°	4551.2	2160.2	1068.2	1151.5	1322.8	1373.9	1539.3	1471.5	1280.0	1255.0	1253.8
62.5°	2972.7	1308.5	950.5	1004.0	1077.7	1137.2	1403.7	1382.3	1197.9	1182.4	1193.1
65°	1598.8	932.6	864.8	896.9	937.4	982.6	1163.4	1231.2	1082.5	1027.8	1029.0
67.5°	817.2	793.4	800.6	823.2	854.1	876.7	938.6	998.0	923.1	876.7	875.5
70°	699.5	718.5	729.2	742.3	762.5	758.9	764.9	775.6	769.6	747.0	745.8
72.5°	596.0	625.7	628.1	630.5	637.6	620.9	610.2	592.4	593.6	597.2	598.3
75°	453.2	481.8	488.9	485.3	492.5	471.1	456.8	438.9	417.5	414.0	416.3
77.5°	295.0	317.6	328.3	325.9	329.5	312.9	305.7	286.7	261.7	252.2	252.2
80°	178.4	191.5	199.8	202.2	205.8	193.9	182.0	165.3	154.6	143.9	143.9
82.5°	108.2	116.6	122.5	122.5	126.1	113.0	103.5	91.6	86.8	77.3	77.3
85°	54.7	60.7	63.0	61.9	59.5	48.8	45.2	39.3	36.9	32.1	32.1
87.5°	13.1	16.7	16.7	11.9	11.9	5.9	3.6	1.2	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)