

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: P639369

Luminaire Tested: GWS-SA5B-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14935.1 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

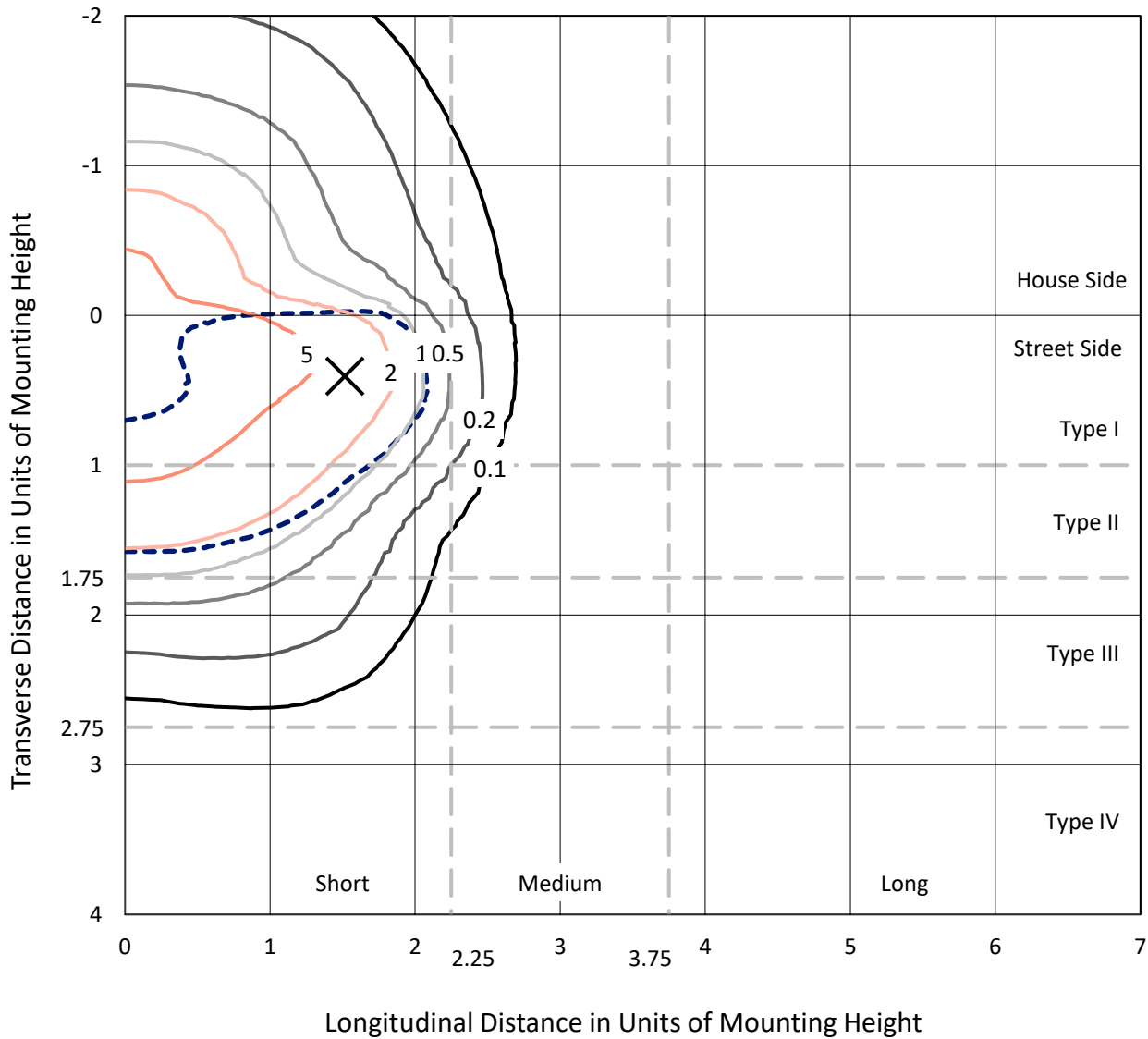
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

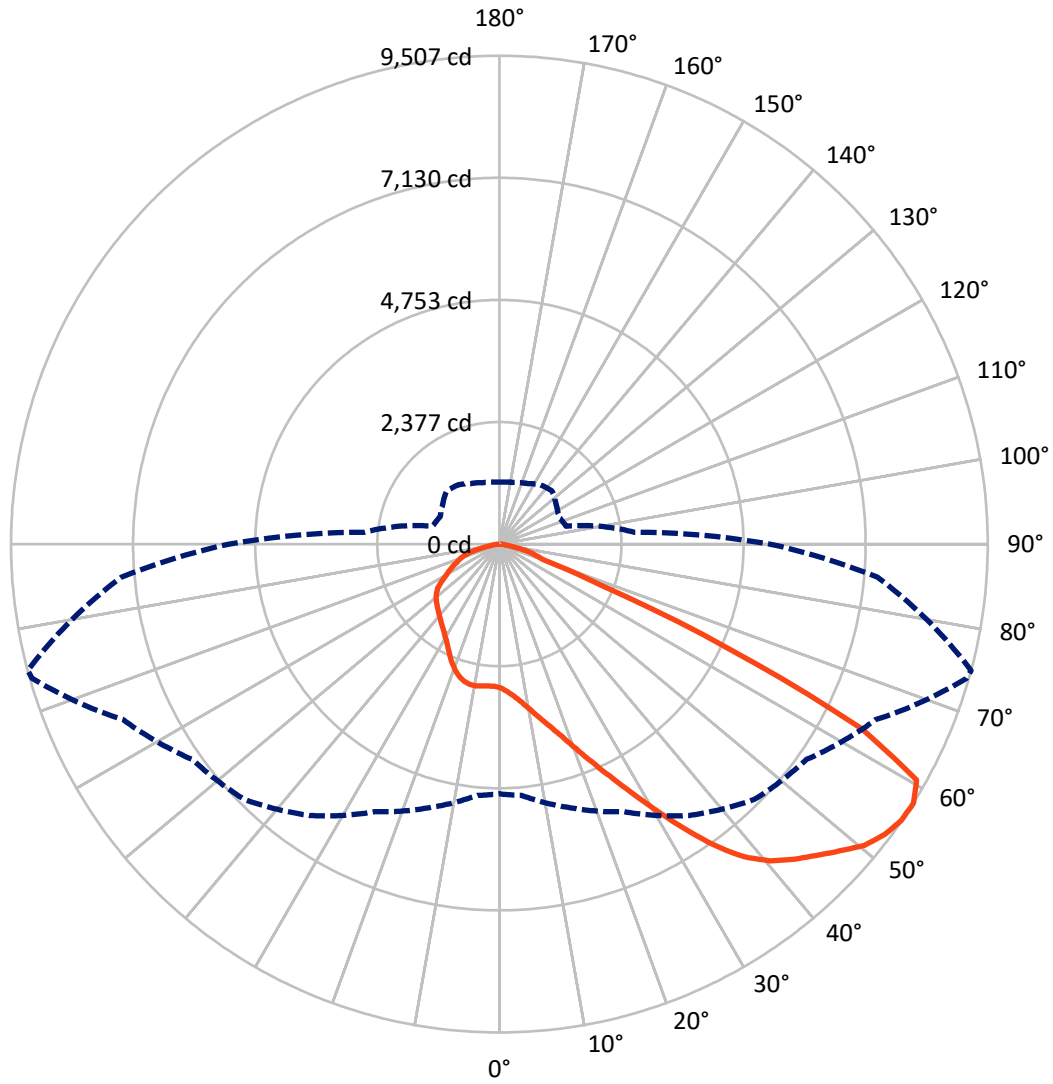
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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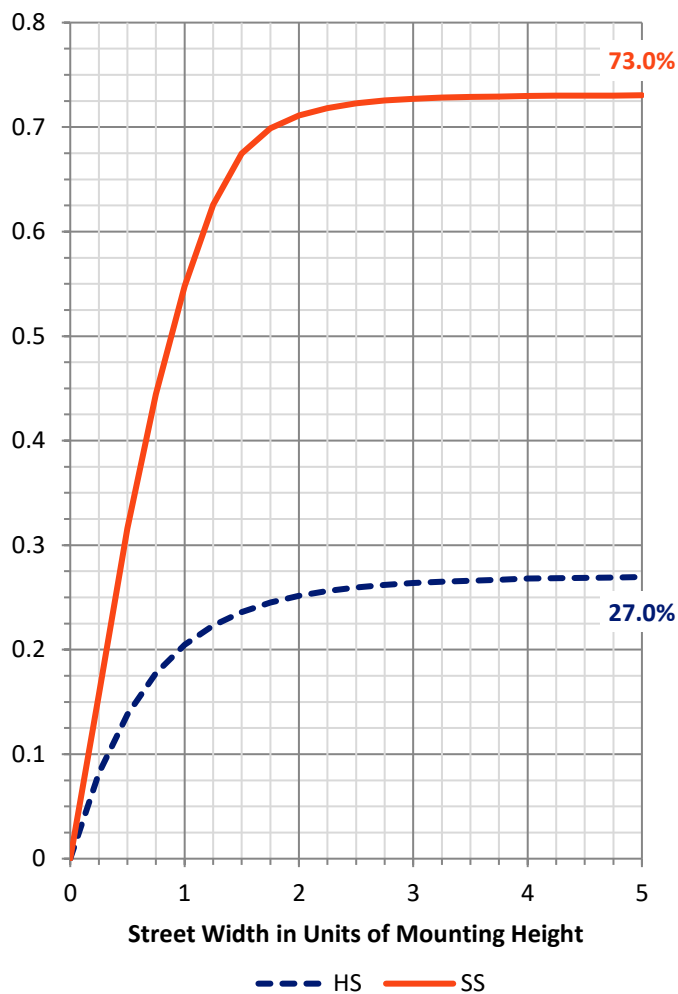
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4040.3	0.0	4040.3
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	10894.9	0.0	10894.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	14935.1	0.0	14935.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	1.9
10°-20°	891.1	6.0
20°-30°	1580.4	10.6
30°-40°	2419.3	16.2
40°-50°	3368.7	22.6
50°-60°	3859.8	25.8
60°-70°	1983.3	13.3
70°-80°	499.3	3.3
80°-90°	53.4	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°	14935.1	100.0
0°-180°	14935.1	100.0

Coefficient of Utilization



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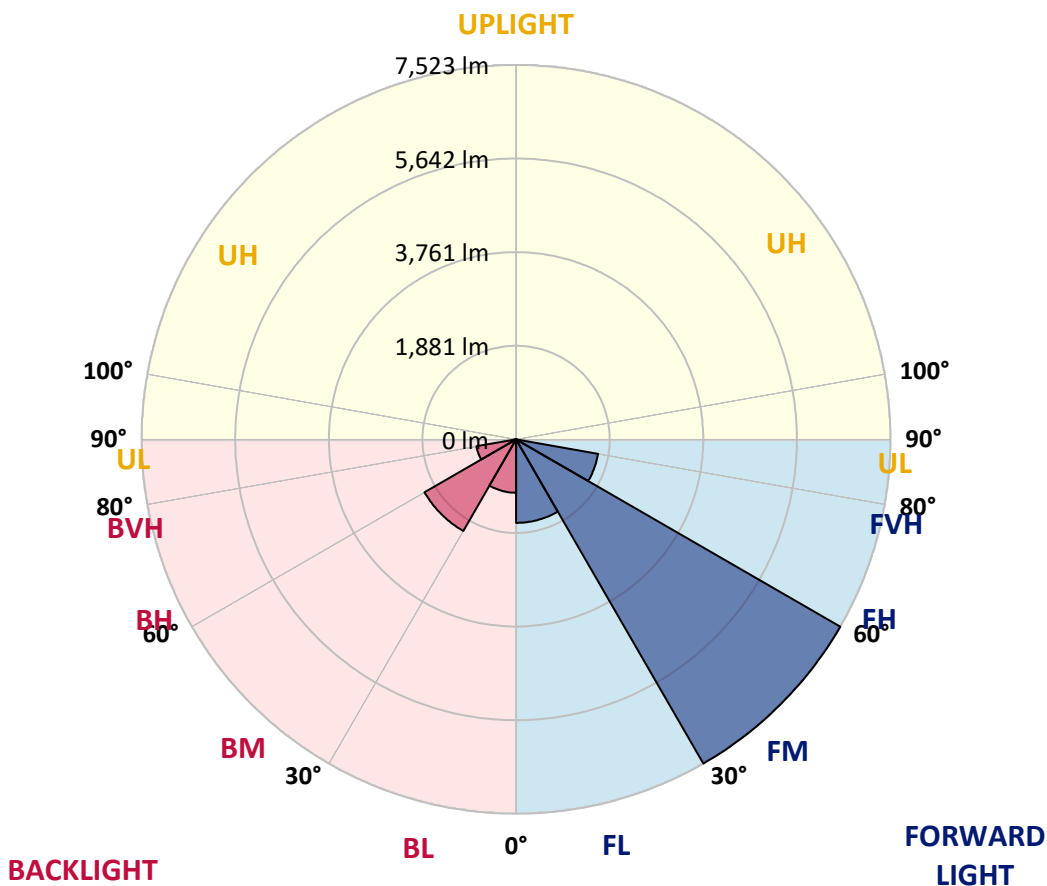
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.1	11.2			
FM (30°-60°)	7523.0	50.4			
FH (60°-80°)	1674.1	11.2			G1/1800
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1073.3	7.2	B3/2500		
BM (30°-60°)	2124.8	14.2	B2/2500		
BH (60°-80°)	808.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.6	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°	74°	75°	85°
0°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	3005.0	3012.7	3005.0	3017.9	2992.2	2980.6	2952.4	2910.0	2876.6	2871.5	2834.2
5°	3238.8	3255.4	3245.2	3240.0	3205.4	3179.7	3137.3	3052.5	2983.2	2972.9	2899.7
7.5°	3389.0	3400.6	3400.6	3404.4	3391.6	3362.0	3317.1	3216.9	3119.3	3103.9	2993.5
10°	3439.1	3448.1	3464.8	3496.9	3522.6	3531.5	3502.0	3405.7	3286.3	3270.9	3116.8
12.5°	3450.6	3460.9	3486.6	3545.7	3616.3	3680.5	3685.7	3615.0	3481.5	3464.8	3259.3
15°	3472.5	3482.7	3517.4	3590.6	3694.6	3817.9	3893.7	3844.9	3697.2	3679.2	3421.1
17.5°	3469.9	3481.5	3532.8	3630.4	3770.4	3948.9	4095.3	4115.9	3963.0	3932.2	3604.7
20°	3463.5	3473.8	3529.0	3648.4	3821.8	4067.1	4331.6	4438.2	4273.8	4245.6	3819.2
22.5°	3514.9	3526.4	3568.8	3667.7	3848.7	4158.2	4549.9	4806.8	4642.4	4602.6	4065.8
25°	3630.4	3647.1	3672.8	3740.9	3897.5	4239.1	4773.4	5224.1	5055.9	5008.4	4334.2
27.5°	3808.9	3829.5	3865.4	3897.5	4006.7	4341.9	4995.5	5691.6	5523.3	5473.3	4618.0
30°	4027.2	4054.2	4100.4	4122.3	4196.8	4493.4	5237.0	6173.1	6075.5	6006.2	4937.7
32.5°	4329.0	4366.3	4409.9	4416.4	4461.3	4723.3	5475.8	6650.9	6649.6	6600.8	5301.2
35°	4722.0	4761.8	4770.8	4779.8	4801.6	5039.2	5764.8	7086.2	7254.4	7197.9	5696.7
37.5°	5150.9	5208.7	5222.8	5183.0	5213.8	5419.3	6089.7	7435.5	7781.0	7720.6	6079.4
40°	5609.4	5632.5	5671.0	5608.1	5646.6	5854.7	6408.2	7659.0	8173.9	8109.7	6381.2
42.5°	5938.1	5980.5	6038.3	6015.2	6037.0	6227.1	6631.6	7766.8	8453.9	8389.7	6598.2
45°	6295.1	6308.0	6345.2	6340.1	6352.9	6530.2	6792.1	7814.4	8704.3	8646.5	6783.1
47.5°	6605.9	6625.2	6649.6	6621.3	6593.1	6708.7	6923.1	7855.4	8993.2	8923.9	6977.1
50°	6905.1	6921.8	6951.4	6869.2	6763.9	6793.4	6987.3	7912.0	9264.2	9215.4	7129.9
52.5°	6960.4	6978.3	7117.0	7133.7	6998.9	6894.9	7100.3	8036.5	9423.5	9392.6	7185.1
55°	6265.6	6297.7	6573.8	6891.0	7223.6	7190.2	7281.4	8102.0	9486.4	9494.1	7284.0
57.5°	4863.3	4909.5	5312.7	5748.1	6448.0	7027.1	7304.5	8085.3	9464.5	9506.9	7385.4
60°	3190.0	3216.9	3694.6	4182.6	4908.2	5709.5	6537.9	7784.8	9270.6	9331.0	7359.7
62.5°	1926.3	1957.1	2341.1	2710.9	3138.6	3674.1	4434.3	6256.6	7770.7	7905.5	5894.5
65°	1344.6	1385.7	1722.1	2026.5	2174.1	2063.7	2246.1	3494.3	4841.4	4897.9	3602.2
67.5°	974.7	1003.0	1279.1	1641.2	1804.3	1457.6	1110.8	1547.5	2108.7	2129.2	1485.8
70°	638.2	670.4	920.8	1249.5	1473.0	1181.5	830.9	837.3	887.4	897.7	863.0
72.5°	350.6	369.8	568.9	829.6	870.7	706.3	648.5	696.0	730.7	730.7	739.7
75°	181.1	197.8	232.4	273.5	330.0	386.5	467.4	538.1	575.3	577.9	574.0
77.5°	92.5	98.9	124.6	134.8	147.7	172.1	223.5	286.4	319.8	332.6	330.0
80°	43.7	46.2	52.7	61.6	75.8	96.3	120.7	143.8	164.4	166.9	181.1
82.5°	23.1	25.7	28.3	33.4	41.1	51.4	70.6	84.8	97.6	100.2	111.7
85°	9.0	10.3	11.6	12.8	18.0	21.8	29.5	39.8	48.8	48.8	57.8
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.1	6.4	9.0	9.0	15.4
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°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	2825.2	2788.0	2771.3	2744.3	2722.5	2698.1	2678.8	2664.7	2655.7	2650.6	2645.5
5°	2871.5	2815.0	2770.0	2716.1	2678.8	2642.9	2613.3	2592.8	2582.5	2574.8	2569.7
7.5°	2943.4	2867.6	2782.9	2699.4	2633.9	2576.1	2538.9	2517.0	2502.9	2497.8	2493.9
10°	3042.3	2937.0	2797.0	2664.7	2567.1	2504.2	2478.5	2468.2	2469.5	2466.9	2465.7
12.5°	3154.0	3010.2	2793.1	2603.1	2495.2	2458.0	2459.2	2475.9	2495.2	2500.3	2501.6
15°	3274.7	3082.1	2755.9	2523.5	2438.7	2442.5	2475.9	2515.7	2551.7	2565.8	2568.4
17.5°	3405.7	3142.4	2687.8	2436.1	2392.5	2433.6	2495.2	2560.7	2613.3	2636.5	2642.9
20°	3552.1	3193.8	2591.5	2350.1	2348.8	2416.9	2506.8	2592.8	2659.6	2690.4	2695.5
22.5°	3707.5	3225.9	2473.4	2270.5	2303.9	2395.0	2497.8	2587.7	2658.3	2689.1	2695.5
25°	3864.2	3236.2	2343.7	2197.3	2257.6	2360.4	2454.1	2526.0	2592.8	2619.8	2624.9
27.5°	4010.6	3206.6	2220.4	2134.3	2215.2	2309.0	2371.9	2410.4	2456.7	2477.2	2481.1
30°	4159.5	3147.6	2116.4	2084.3	2167.7	2238.4	2266.6	2269.2	2287.2	2287.2	2289.7
32.5°	4309.8	3060.2	2025.2	2035.5	2108.7	2154.9	2158.7	2129.2	2107.4	2071.4	2070.1
35°	4483.1	2971.6	1950.7	1980.2	2039.3	2067.6	2056.0	1999.5	1946.8	1887.8	1885.2
37.5°	4643.7	2880.5	1887.8	1923.7	1961.0	1981.5	1954.6	1886.5	1842.8	1782.5	1773.5
40°	4775.9	2798.3	1827.4	1864.7	1882.6	1900.6	1857.0	1801.7	1808.2	1774.8	1773.5
42.5°	4853.0	2718.6	1770.9	1799.2	1810.7	1823.6	1785.0	1743.9	1778.6	1752.9	1754.2
45°	4909.5	2649.3	1719.5	1729.8	1758.1	1777.3	1741.4	1695.1	1702.8	1604.0	1580.8
47.5°	4973.7	2610.8	1670.7	1660.5	1710.6	1743.9	1688.7	1621.9	1575.7	1478.1	1469.1
50°	5041.8	2596.7	1619.4	1591.1	1651.5	1683.6	1619.4	1535.9	1475.5	1422.9	1417.8
52.5°	5064.9	2595.4	1555.2	1507.6	1568.0	1613.0	1559.0	1474.3	1402.3	1351.0	1348.4
55°	5156.1	2632.6	1473.0	1393.4	1449.9	1542.3	1502.5	1380.5	1322.7	1299.6	1297.0
57.5°	5262.6	2639.0	1343.3	1268.8	1347.1	1456.3	1406.2	1300.9	1238.0	1209.7	1207.1
60°	5219.0	2481.1	1204.6	1173.8	1259.8	1375.4	1329.1	1238.0	1164.8	1137.8	1135.2
62.5°	3977.2	1751.6	1103.1	1091.6	1166.1	1258.5	1249.5	1154.5	1085.1	1065.9	1063.3
65°	2392.5	1230.3	1005.5	1004.2	1056.9	1145.5	1157.1	1080.0	1006.8	979.8	979.8
67.5°	1182.7	941.3	895.1	888.7	922.1	985.0	1033.8	970.9	909.2	883.5	879.7
70°	836.0	829.6	814.2	796.2	802.6	828.3	848.9	796.2	730.7	705.0	699.9
72.5°	723.0	724.3	714.0	699.9	694.8	676.8	658.8	620.3	580.5	553.5	556.1
75°	561.2	563.8	570.2	565.0	550.9	531.7	512.4	463.6	431.5	405.8	400.7
77.5°	327.5	340.3	360.9	355.7	358.3	331.3	323.6	276.1	246.6	228.6	224.7
80°	184.9	192.6	201.6	208.0	200.3	188.8	172.1	146.4	137.4	124.6	122.0
82.5°	111.7	119.4	123.3	128.4	125.9	110.4	97.6	80.9	73.2	66.8	65.5
85°	56.5	61.6	65.5	68.1	60.4	50.1	44.9	36.0	30.8	27.0	27.0
87.5°	14.1	15.4	18.0	15.4	14.1	6.4	5.1	1.3	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)