

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: P633386

Luminaire Tested: GWS-SA2E-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633386
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-SA2E-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: 13085.6 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

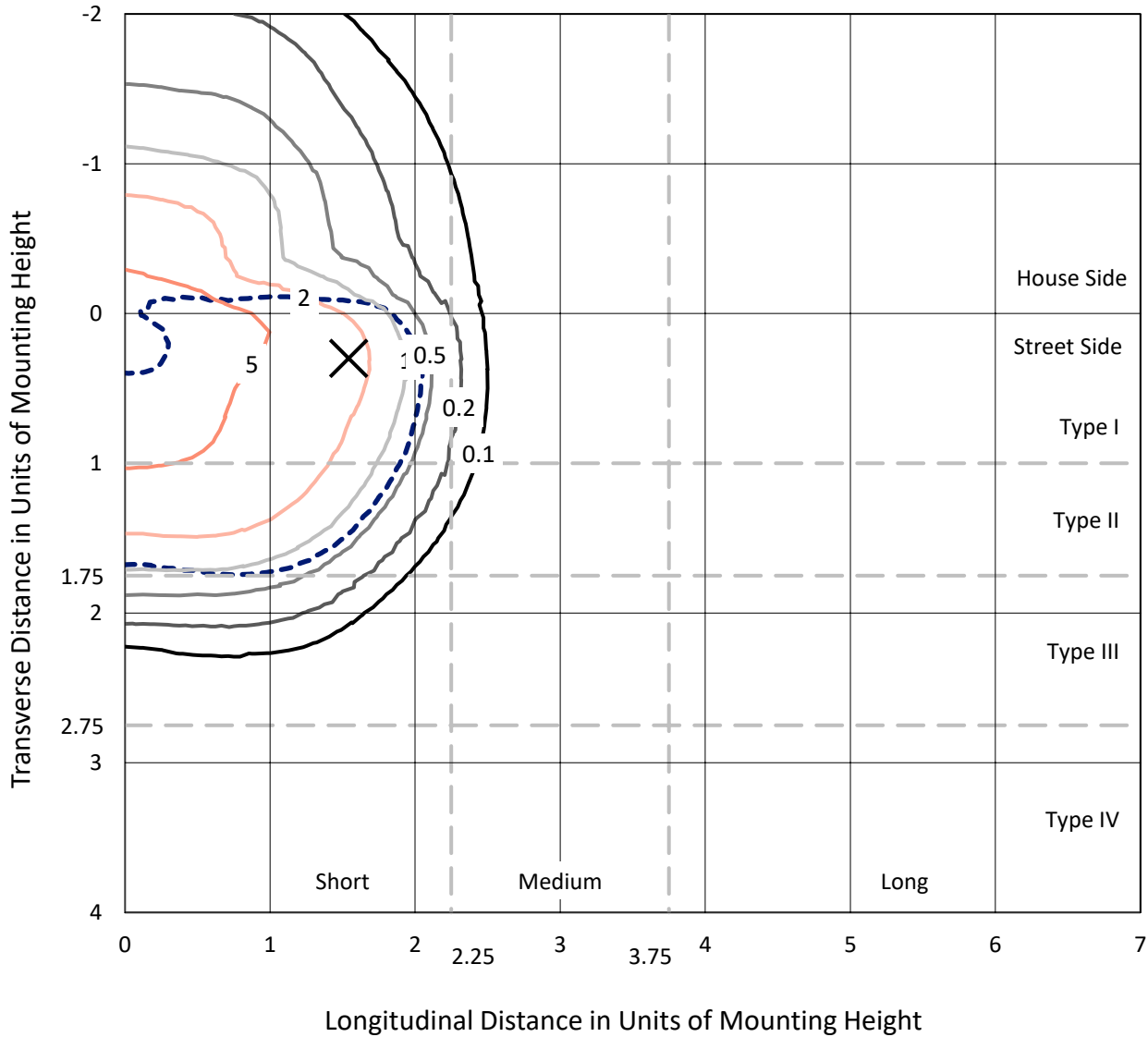
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

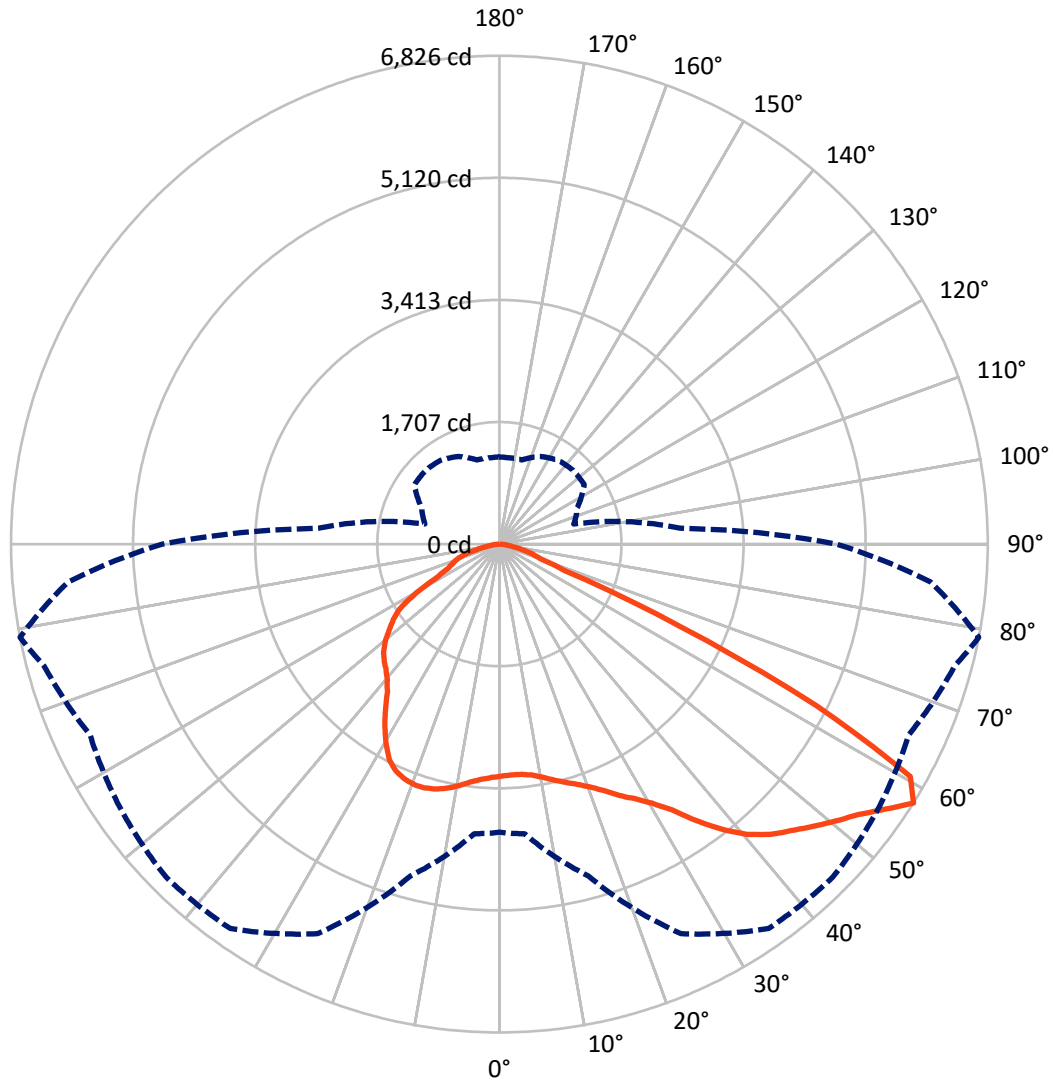
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 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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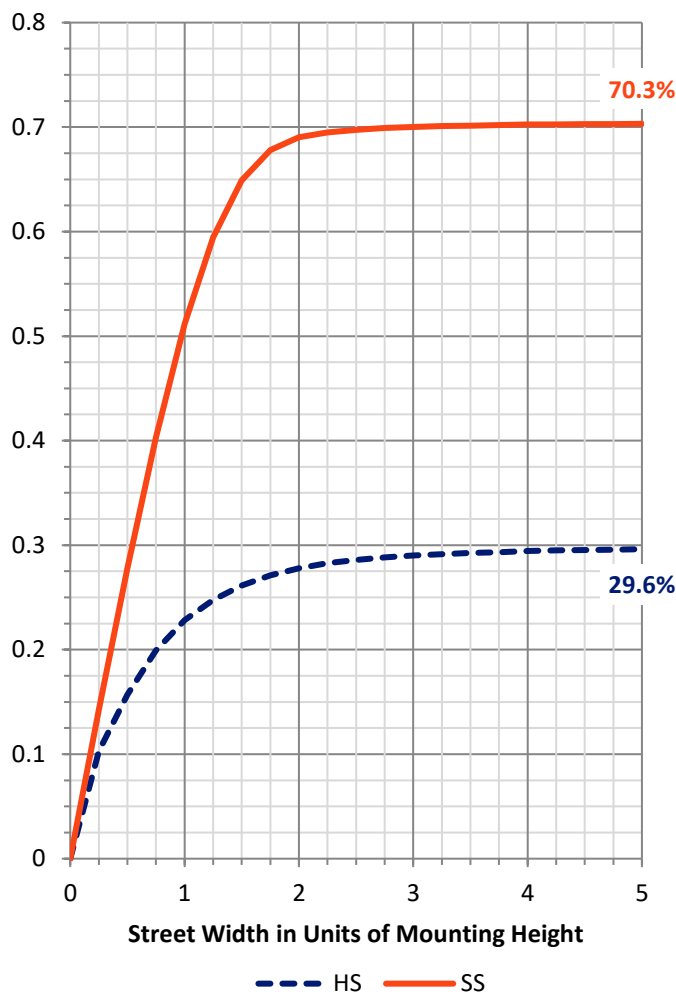
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3889.7	0.0	3889.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	9195.9	0.0	9195.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	13085.6	0.0	13085.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	2.3
10°-20°	834.6	6.4
20°-30°	1414.7	10.8
30°-40°	2165.3	16.5
40°-50°	2887.3	22.1
50°-60°	3334.6	25.5
60°-70°	1732.8	13.2
70°-80°	368.3	2.8
80°-90°	47.7	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°	13085.6	100.0
0°-180°	13085.6	100.0

Coefficient of Utilization



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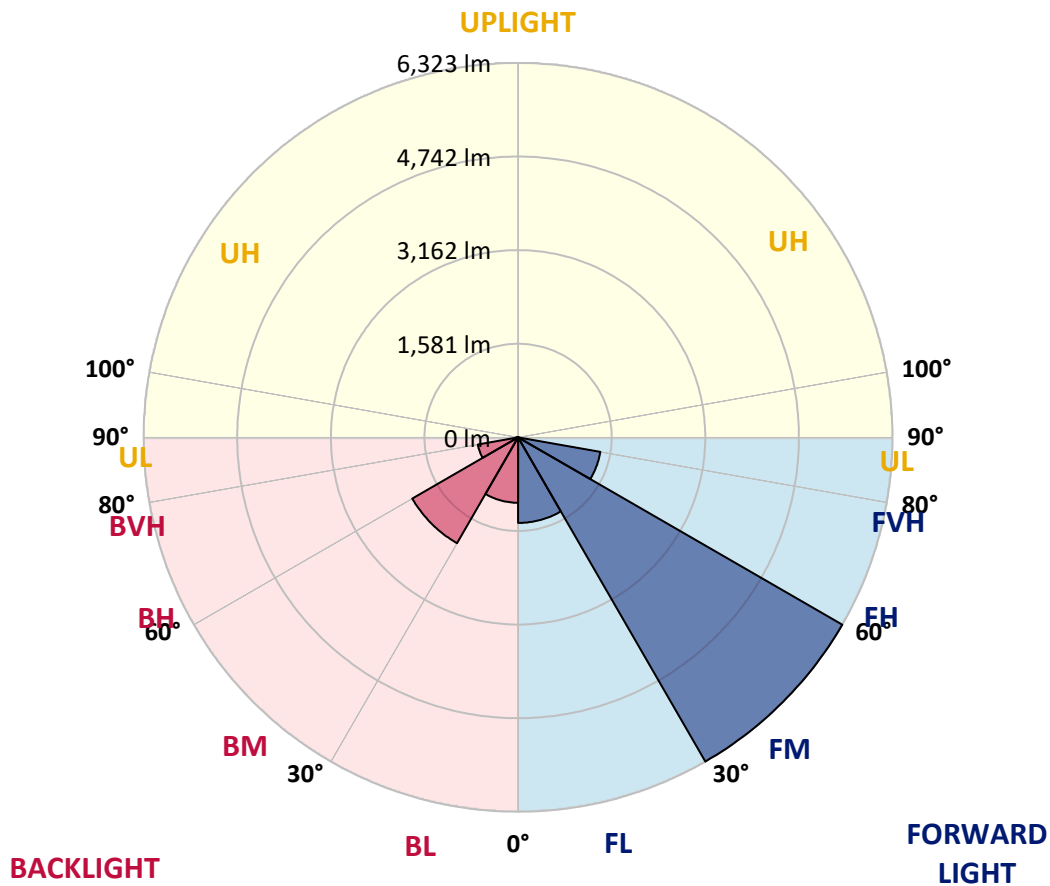
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.9	11.0			
FM (30°-60°)	6323.3	48.3			
FH (60°-80°)	1411.0	10.8			G1/1800
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	1104.6	8.4	B3/2500		
BM (30°-60°)	2063.9	15.8	B2/2500		
BH (60°-80°)	690.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	31.1	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°	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9
2.5°	3095.3	3088.8	3091.0	3099.5	3131.6	3155.2	3179.8	3202.3	3223.7	3230.1	3235.4
5°	2985.1	2973.3	2976.5	2990.4	3027.9	3067.4	3111.3	3164.8	3216.2	3233.3	3255.8
7.5°	2907.0	2904.8	2910.2	2931.6	2971.2	3008.6	3065.3	3141.3	3230.1	3259.0	3298.5
10°	2803.2	2798.9	2820.3	2864.2	2929.4	2989.3	3056.7	3146.6	3270.7	3313.5	3374.5
12.5°	2720.8	2718.7	2741.1	2802.1	2885.6	2980.8	3073.9	3174.4	3325.3	3384.1	3459.0
15°	2768.9	2759.3	2760.4	2803.2	2878.1	2990.4	3116.7	3224.7	3379.9	3454.8	3551.0
17.5°	2909.1	2892.0	2879.1	2886.6	2929.4	3046.0	3181.9	3292.1	3443.0	3530.7	3648.4
20°	3102.8	3093.1	3057.8	3034.3	3043.9	3146.6	3284.6	3387.4	3525.4	3623.8	3750.1
22.5°	3362.7	3339.2	3291.1	3253.6	3224.7	3305.0	3432.3	3521.1	3639.9	3742.6	3874.2
25°	3684.8	3650.6	3574.6	3515.7	3453.7	3536.1	3649.5	3716.9	3797.1	3892.4	4017.5
27.5°	4013.3	3984.4	3899.8	3820.7	3743.6	3795.0	3929.8	3968.3	3959.8	4029.3	4136.3
30°	4363.1	4326.7	4246.5	4160.9	4061.4	4094.6	4215.5	4234.7	4143.8	4201.6	4274.3
32.5°	4732.2	4696.9	4627.4	4527.9	4415.5	4428.4	4461.5	4479.7	4393.1	4426.2	4481.9
35°	5107.8	5074.6	5004.0	4905.6	4823.2	4745.1	4661.6	4734.4	4684.1	4748.3	4744.0
37.5°	5451.2	5418.1	5374.2	5298.2	5157.0	5002.9	4810.3	4900.2	4978.3	5059.6	5045.7
40°	5683.4	5660.9	5671.6	5659.9	5478.0	5173.0	4883.1	4981.5	5194.4	5333.5	5326.0
42.5°	5883.5	5861.0	5923.1	5968.0	5754.0	5330.3	4918.4	5012.6	5332.5	5549.7	5539.0
45°	5972.3	5965.8	6068.6	6210.9	6006.5	5497.2	5009.3	5076.7	5437.3	5715.5	5674.8
47.5°	5866.3	5888.8	6091.0	6331.8	6216.2	5695.2	5195.5	5212.6	5574.3	5895.2	5780.8
50°	5655.6	5704.8	5977.6	6335.0	6369.2	5918.8	5453.4	5410.6	5758.3	6086.7	5836.4
52.5°	5348.5	5399.9	5844.9	6310.4	6456.9	6177.7	5796.8	5735.8	5990.5	6278.3	5846.0
55°	4643.4	4713.0	5541.1	6254.7	6542.5	6413.1	6184.1	6060.0	6290.0	6541.5	5941.2
57.5°	4028.2	4064.6	4800.7	6007.6	6559.7	6586.4	6460.2	6312.5	6587.5	6826.1	6048.2
60°	2956.2	2964.7	3627.0	4970.8	6034.3	6485.8	6437.7	6218.3	6446.2	6598.2	5558.2
62.5°	1670.1	1671.2	2199.7	3317.8	4507.6	5286.5	5316.4	5122.8	4931.2	4976.2	3868.8
65°	627.0	685.8	1004.7	1630.6	2598.8	3120.9	3245.1	3290.0	2971.2	2773.2	2074.6
67.5°	419.4	433.3	586.3	838.8	1156.6	1335.3	1493.6	1497.9	1095.6	976.8	817.4
70°	319.9	333.8	461.1	600.2	586.3	541.4	585.2	569.2	588.5	604.5	621.6
72.5°	238.6	252.5	357.4	423.7	352.0	346.7	392.7	436.5	477.2	494.3	521.0
75°	158.3	169.0	240.7	226.8	194.7	230.0	286.7	330.6	354.1	374.5	394.8
77.5°	100.6	108.1	128.4	103.8	108.1	134.8	166.9	206.5	229.0	249.3	260.0
80°	46.0	44.9	43.9	49.2	61.0	79.2	100.6	124.1	141.2	149.8	156.2
82.5°	18.2	20.3	22.5	26.7	33.2	42.8	56.7	72.8	86.7	88.8	94.2
85°	7.5	8.6	9.6	11.8	15.0	19.3	23.5	33.2	41.7	44.9	48.1
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	3.2	5.3	9.6	10.7	11.8
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°	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9	3242.9
2.5°	3264.3	3250.4	3273.9	3290.0	3305.0	3288.9	3283.6	3269.7	3267.5	3267.5	3275.0
5°	3294.3	3284.6	3309.2	3318.9	3317.8	3282.5	3261.1	3233.3	3219.4	3219.4	3221.5
7.5°	3347.8	3342.4	3356.3	3341.3	3307.1	3235.4	3164.8	3106.0	3066.4	3046.0	3052.5
10°	3436.6	3430.1	3418.4	3362.7	3264.3	3115.6	2971.2	2864.2	2800.0	2763.6	2765.7
12.5°	3523.2	3512.5	3470.8	3347.8	3145.6	2909.1	2719.7	2599.9	2529.3	2486.5	2476.9
15°	3618.5	3590.6	3500.8	3270.7	2951.9	2656.6	2458.7	2329.2	2253.2	2227.6	2226.5
17.5°	3709.4	3660.2	3497.6	3133.8	2719.7	2392.3	2193.3	2113.1	2100.2	2112.0	2115.2
20°	3801.4	3722.2	3462.2	2944.4	2443.7	2129.1	2026.4	2059.6	2107.7	2139.8	2147.3
22.5°	3896.6	3773.6	3382.0	2700.5	2152.7	1951.5	1994.3	2067.1	2127.0	2169.8	2174.1
25°	4003.6	3821.7	3262.2	2402.0	1919.4	1902.3	1986.8	2063.9	2128.1	2177.3	2185.8
27.5°	4064.6	3822.8	3094.2	2094.9	1812.4	1883.1	1968.6	2041.4	2105.6	2159.1	2168.7
30°	4124.5	3793.9	2827.8	1845.6	1781.4	1860.6	1937.6	2005.0	2066.0	2118.4	2130.2
32.5°	4209.0	3767.2	2520.7	1702.2	1763.2	1839.2	1902.3	1962.2	2009.3	2032.8	2039.3
35°	4313.9	3732.9	2194.4	1640.2	1751.5	1822.1	1877.7	1909.8	1848.8	1836.0	1849.9
37.5°	4460.5	3700.8	1869.1	1613.4	1744.0	1815.6	1864.9	1782.5	1707.6	1677.6	1688.3
40°	4618.8	3682.6	1648.7	1592.0	1747.2	1822.1	1811.4	1689.4	1581.3	1518.2	1516.1
42.5°	4753.6	3654.8	1507.5	1578.1	1755.7	1846.7	1738.6	1607.0	1446.5	1409.1	1410.1
45°	4844.6	3584.2	1432.6	1563.1	1763.2	1852.0	1704.4	1493.6	1379.1	1355.6	1354.5
47.5°	4882.0	3455.8	1384.5	1539.6	1762.2	1808.2	1634.8	1446.5	1332.0	1325.6	1329.9
50°	4857.4	3245.1	1335.3	1493.6	1736.5	1762.2	1554.6	1404.8	1299.9	1335.3	1360.9
52.5°	4766.5	2972.2	1276.4	1430.5	1690.5	1709.7	1513.9	1379.1	1276.4	1323.5	1343.8
55°	4742.9	2750.8	1201.5	1348.1	1622.0	1616.6	1471.1	1366.3	1260.4	1242.2	1245.4
57.5°	4711.9	2534.6	1077.4	1200.4	1448.7	1457.2	1430.5	1351.3	1218.6	1213.3	1218.6
60°	4093.5	1943.0	960.8	1035.7	1189.7	1235.8	1384.5	1323.5	1151.2	1128.8	1127.7
62.5°	2673.7	1176.9	854.9	903.0	969.3	1022.8	1262.5	1243.2	1077.4	1063.5	1073.1
65°	1438.0	838.8	777.8	806.7	843.1	883.8	1046.4	1107.4	973.6	924.4	925.5
67.5°	735.0	713.6	720.1	740.4	768.2	788.5	844.2	897.7	830.3	788.5	787.5
70°	629.1	646.2	655.9	667.6	685.8	682.6	688.0	697.6	692.2	671.9	670.8
72.5°	536.0	562.8	564.9	567.1	573.5	558.5	548.9	532.8	533.9	537.1	538.2
75°	407.6	433.3	439.7	436.5	442.9	423.7	410.8	394.8	375.5	372.3	374.5
77.5°	265.3	285.7	295.3	293.2	296.4	281.4	275.0	257.8	235.4	226.8	226.8
80°	160.5	172.3	179.7	181.9	185.1	174.4	163.7	148.7	139.1	129.5	129.5
82.5°	97.4	104.9	110.2	110.2	113.4	101.6	93.1	82.4	78.1	69.5	69.5
85°	49.2	54.6	56.7	55.6	53.5	43.9	40.7	35.3	33.2	28.9	28.9
87.5°	11.8	15.0	15.0	10.7	10.7	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)