

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: P631563

Luminaire Tested: GWS-SA1F-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5890.2 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

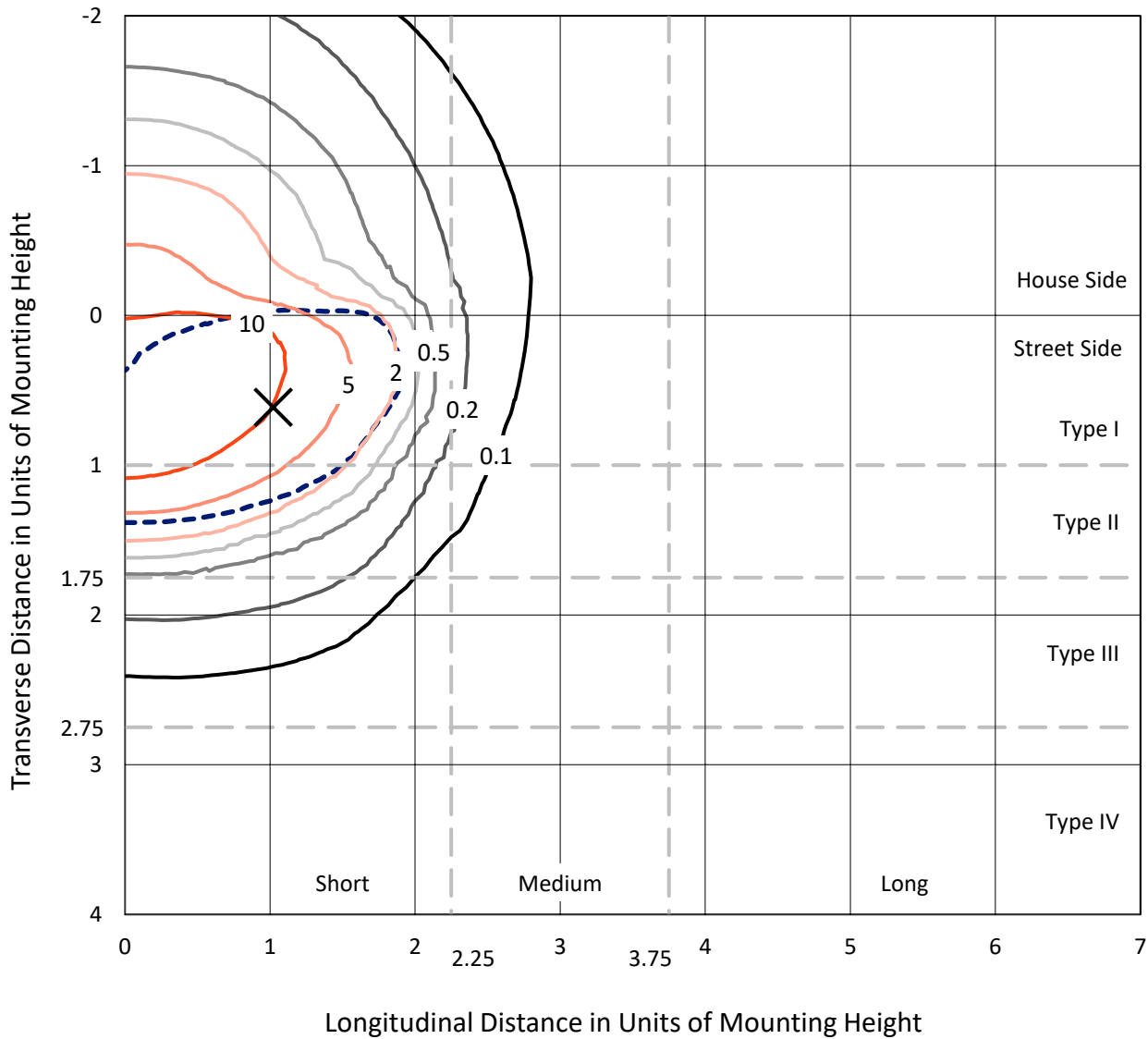
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

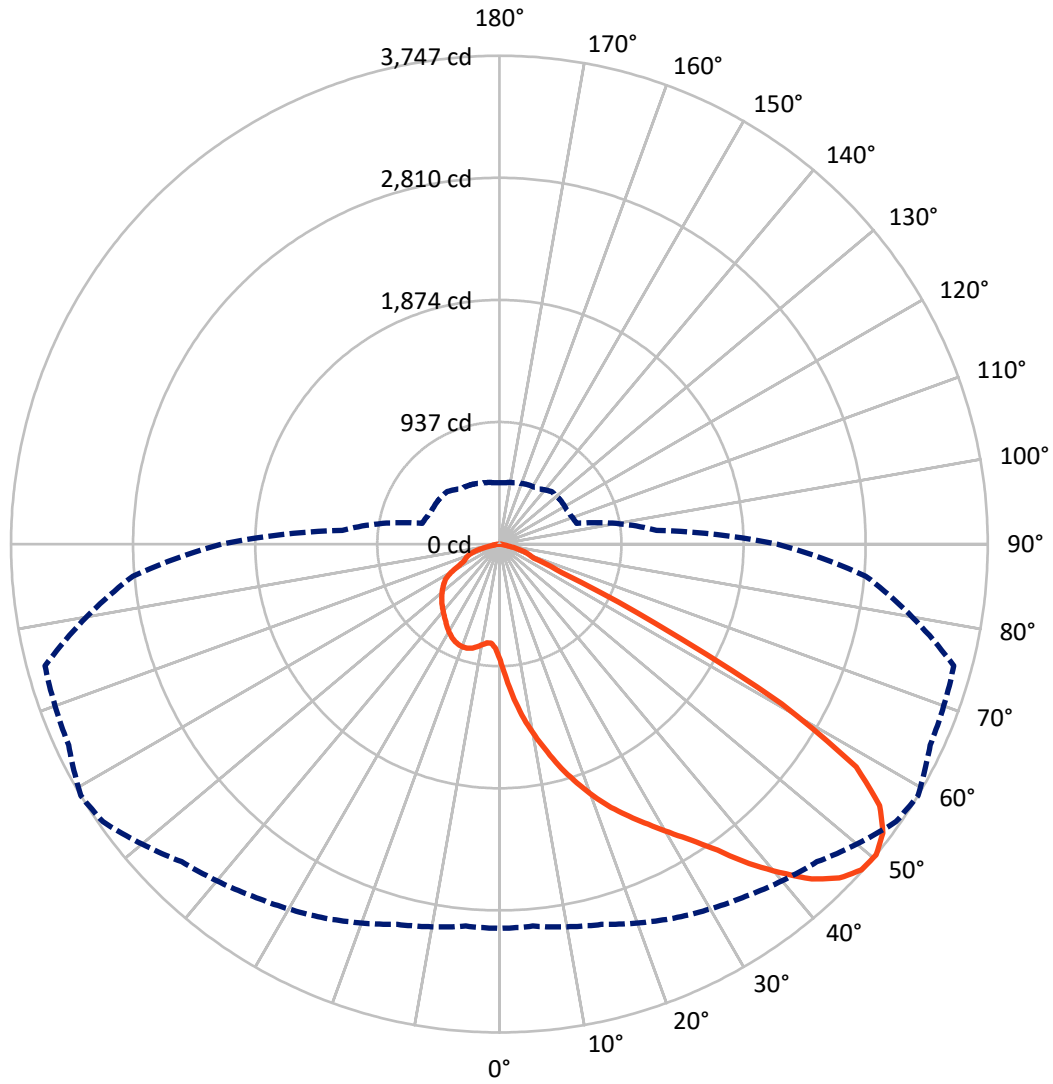
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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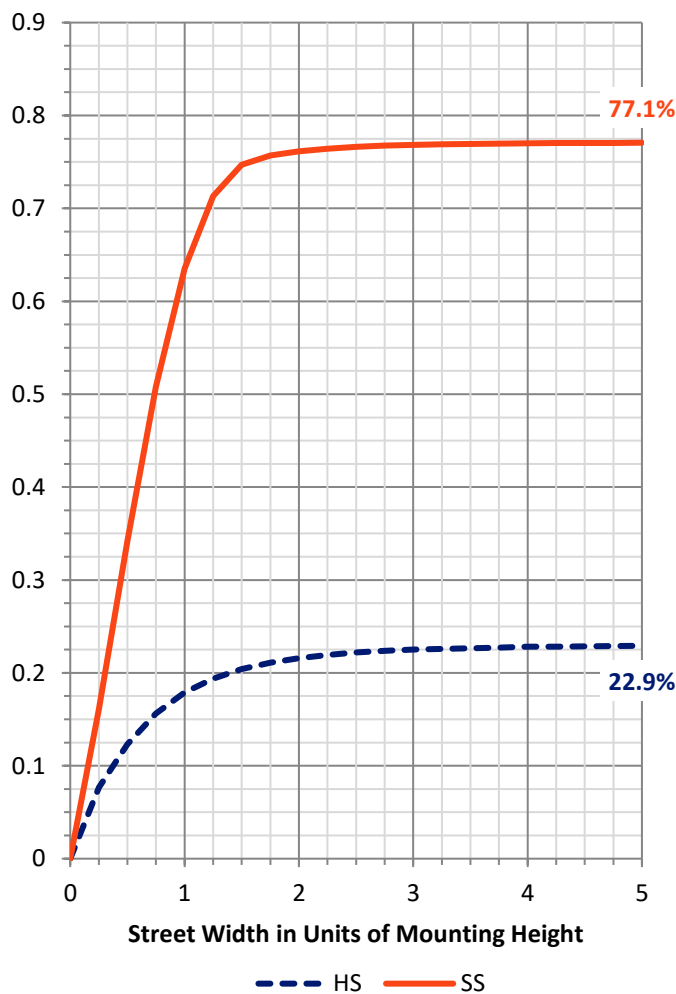
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1354.8	0.0	1354.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4535.3	0.0	4535.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	5890.2	0.0	5890.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.7
10°-20°	363.4	6.2
20°-30°	688.2	11.7
30°-40°	1141.2	19.4
40°-50°	1559.0	26.5
50°-60°	1415.1	24.0
60°-70°	471.3	8.0
70°-80°	137.4	2.3
80°-90°	14.4	0.2
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°	5890.2	100.0
0°-180°	5890.2	100.0

Coefficient of Utilization



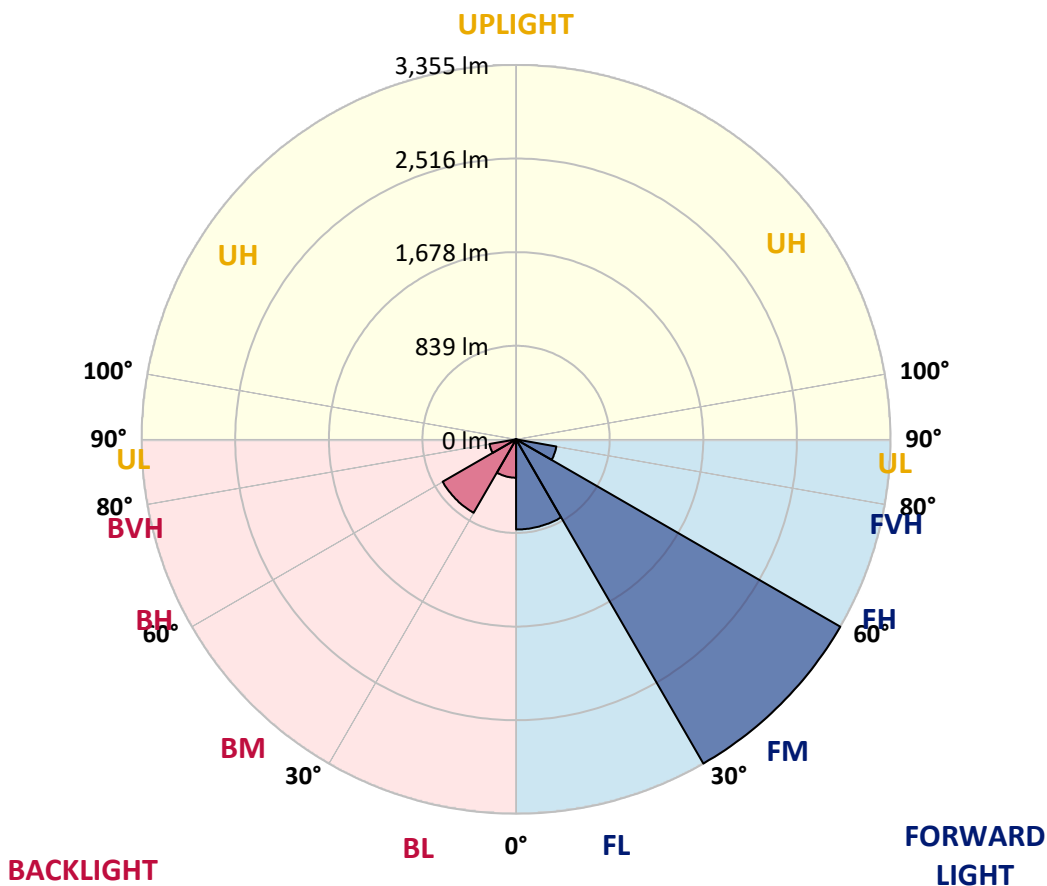
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.7	13.7			
FM (30°-60°)	3355.1	57.0			
FH (60°-80°)	366.9	6.2			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	344.0	5.8	B1/500		
BM (30°-60°)	760.2	12.9	B1/1000		
BH (60°-80°)	241.8	4.1	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	1156.3	1164.9	1151.5	1152.5	1118.9	1103.5	1060.3	1034.9	1018.1	971.1	928.4
5°	1389.5	1379.4	1368.8	1362.6	1333.3	1292.1	1238.3	1195.6	1156.3	1064.2	975.4
7.5°	1532.4	1527.2	1520.0	1516.1	1487.3	1444.2	1390.4	1354.0	1296.9	1172.1	1032.5
10°	1653.8	1647.6	1643.3	1646.2	1622.6	1594.8	1536.3	1494.5	1430.3	1286.3	1101.6
12.5°	1747.9	1751.2	1752.7	1768.0	1757.9	1741.2	1680.7	1636.6	1565.1	1406.7	1182.7
15°	1822.2	1821.3	1838.1	1867.3	1883.7	1873.1	1824.6	1787.7	1700.4	1525.2	1270.0
17.5°	1839.5	1840.5	1866.9	1918.2	1971.5	1997.4	1970.0	1925.9	1839.5	1642.3	1360.7
20°	1853.4	1855.3	1882.7	1941.2	2019.0	2091.4	2095.7	2064.1	1989.7	1769.0	1452.8
22.5°	1941.2	1945.5	1952.7	1989.7	2059.7	2151.4	2201.8	2195.0	2132.7	1901.9	1552.1
25°	2172.0	2159.0	2124.0	2113.5	2140.3	2214.7	2300.6	2313.5	2282.8	2048.2	1659.1
27.5°	2457.0	2443.1	2391.3	2336.6	2278.5	2304.4	2396.1	2434.9	2435.4	2209.4	1766.6
30°	2715.6	2704.6	2662.3	2584.1	2483.9	2446.4	2514.1	2566.4	2597.6	2395.6	1888.9
32.5°	2936.8	2926.7	2869.6	2805.8	2707.9	2632.6	2657.1	2707.4	2780.4	2636.4	2041.0
35°	3122.9	3112.9	3058.2	2993.9	2903.2	2858.1	2849.5	2884.0	2978.5	2887.8	2215.7
37.5°	3274.1	3264.0	3206.9	3146.5	3077.4	3080.2	3093.2	3110.0	3164.2	3157.0	2402.3
40°	3372.0	3361.4	3320.6	3277.4	3233.8	3268.3	3332.6	3312.5	3341.2	3374.4	2574.1
42.5°	3415.6	3402.2	3378.7	3369.1	3355.6	3409.4	3533.2	3513.0	3478.5	3519.3	2701.7
45°	3372.0	3360.4	3360.0	3389.2	3420.4	3489.5	3671.8	3655.5	3568.2	3589.3	2778.0
47.5°	3238.1	3228.0	3255.4	3332.1	3408.9	3509.7	3733.7	3736.6	3632.0	3618.6	2827.4
50°	2948.8	2942.1	3021.2	3166.6	3299.0	3446.8	3714.0	3747.1	3647.4	3609.5	2821.2
52.5°	2360.6	2391.7	2564.0	2806.8	3063.9	3336.5	3641.1	3684.3	3573.5	3549.5	2787.6
55°	1615.9	1630.3	1802.6	2157.1	2565.0	3097.5	3473.7	3540.4	3486.1	3539.4	2822.6
57.5°	836.8	848.3	984.0	1298.8	1739.7	2447.9	3008.8	3227.5	3310.1	3590.3	2931.5
60°	343.5	353.1	409.3	561.4	877.5	1425.5	2165.3	2489.6	2683.5	3278.9	2603.3
62.5°	249.5	254.3	281.2	334.9	459.6	698.6	1225.4	1344.8	1481.1	2054.9	1652.9
65°	210.1	215.4	237.0	269.6	335.4	428.5	523.4	526.3	580.1	837.2	612.7
67.5°	176.1	180.9	200.1	227.9	271.1	304.2	281.2	281.6	280.7	303.7	293.6
70°	137.2	141.1	160.2	190.0	212.5	195.3	219.7	243.3	233.2	242.3	256.2
72.5°	100.3	104.6	121.4	143.9	138.2	139.1	178.0	202.0	196.2	206.3	219.3
75°	72.4	75.3	84.0	72.0	75.8	91.6	125.2	138.2	143.9	152.6	164.1
77.5°	23.5	23.5	26.4	33.1	41.3	50.9	63.8	69.1	77.7	87.3	95.5
80°	12.0	12.5	14.9	18.2	23.0	29.3	37.4	39.8	44.1	49.4	52.8
82.5°	5.8	6.2	7.2	9.1	12.0	15.4	20.6	23.0	25.9	29.3	31.7
85°	1.4	1.4	1.9	2.9	3.8	5.8	7.7	9.1	11.5	13.9	15.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.4	1.9	2.4	2.9	3.8
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°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	909.2	882.3	847.8	818.5	791.7	771.0	753.3	744.6	736.5	730.7	732.6
5°	934.1	888.1	823.8	779.2	751.8	737.9	728.3	723.5	722.6	718.7	717.3
7.5°	970.6	904.9	819.0	773.9	755.7	748.5	743.2	740.3	741.8	737.9	736.5
10°	1015.7	932.7	831.0	791.2	775.3	770.1	764.3	760.5	758.5	752.8	751.8
12.5°	1071.8	967.3	852.6	813.2	797.4	788.3	780.6	773.9	769.6	762.4	760.5
15°	1132.3	1005.6	878.0	834.8	816.1	802.7	790.2	780.1	772.5	762.9	761.4
17.5°	1198.0	1045.9	899.1	849.7	825.7	808.0	789.7	774.9	764.3	751.8	750.4
20°	1266.6	1086.7	915.0	856.9	826.2	802.2	777.7	758.1	744.6	732.2	731.2
22.5°	1337.7	1124.1	924.6	855.0	818.5	788.8	759.5	737.4	721.6	706.7	705.8
25°	1409.1	1160.1	927.0	847.3	803.2	768.6	739.4	713.4	695.7	678.9	677.0
27.5°	1481.6	1190.4	921.2	832.0	782.5	745.1	715.8	690.4	672.2	655.4	652.5
30°	1558.8	1216.3	908.7	811.8	758.5	720.2	691.4	672.2	654.9	638.1	635.2
32.5°	1641.4	1238.8	891.0	787.3	730.7	695.2	674.1	656.8	639.6	624.7	621.8
35°	1739.7	1253.7	864.6	755.7	704.8	677.0	662.6	642.4	621.3	605.0	603.6
37.5°	1841.4	1265.2	832.9	725.4	682.3	666.4	654.4	627.1	600.7	581.0	578.6
40°	1939.8	1274.8	793.6	697.1	661.6	658.7	642.4	608.4	562.8	540.7	538.8
42.5°	2031.4	1277.7	752.3	666.9	642.9	641.5	623.2	570.5	535.4	521.5	519.6
45°	2094.3	1275.3	709.6	638.6	624.2	616.5	597.3	543.1	521.5	509.1	506.7
47.5°	2140.8	1262.8	661.6	608.9	603.1	592.5	551.3	525.8	505.7	493.2	490.8
50°	2132.7	1211.0	613.2	580.1	577.7	568.5	517.7	504.3	486.5	473.1	471.2
52.5°	2090.4	1112.6	563.8	548.4	553.2	535.4	493.7	478.3	463.0	447.6	444.3
55°	2101.0	1041.6	526.3	517.7	526.3	486.0	466.8	450.5	436.1	421.3	418.4
57.5°	2147.1	971.6	486.5	484.6	493.7	448.1	432.3	411.7	391.0	379.0	379.0
60°	1803.0	708.2	416.5	421.3	441.9	417.4	403.5	382.4	359.8	349.3	349.3
62.5°	1066.1	444.3	345.4	340.2	353.1	368.5	376.2	358.9	332.0	318.1	318.6
65°	469.7	323.4	304.7	300.3	296.5	307.1	328.2	329.6	301.3	285.0	285.5
67.5°	289.3	292.7	285.0	281.6	278.3	276.4	274.4	275.4	267.7	252.8	252.4
70°	261.0	270.1	264.8	262.0	257.6	254.3	242.8	224.1	211.1	207.3	211.6
72.5°	224.5	237.0	234.1	232.7	227.4	219.3	203.9	185.7	170.3	160.7	162.6
75°	169.4	179.4	180.9	181.4	175.6	167.9	152.1	136.7	123.3	113.2	115.6
77.5°	97.4	103.2	104.6	106.0	101.7	98.8	88.3	77.2	70.0	59.5	62.4
80°	54.2	56.6	56.6	57.1	54.7	51.3	44.1	37.9	34.5	29.7	30.2
82.5°	32.6	33.6	34.1	34.5	33.1	29.7	24.5	20.2	18.2	15.8	15.4
85°	15.8	16.8	16.8	17.3	14.9	13.0	10.1	7.7	6.7	4.8	5.3
87.5°	3.8	4.3	4.3	3.8	3.4	2.4	1.4	0.5	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)