

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: P631147

Luminaire Tested: GWS-SA1F-727-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-727-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306.5 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

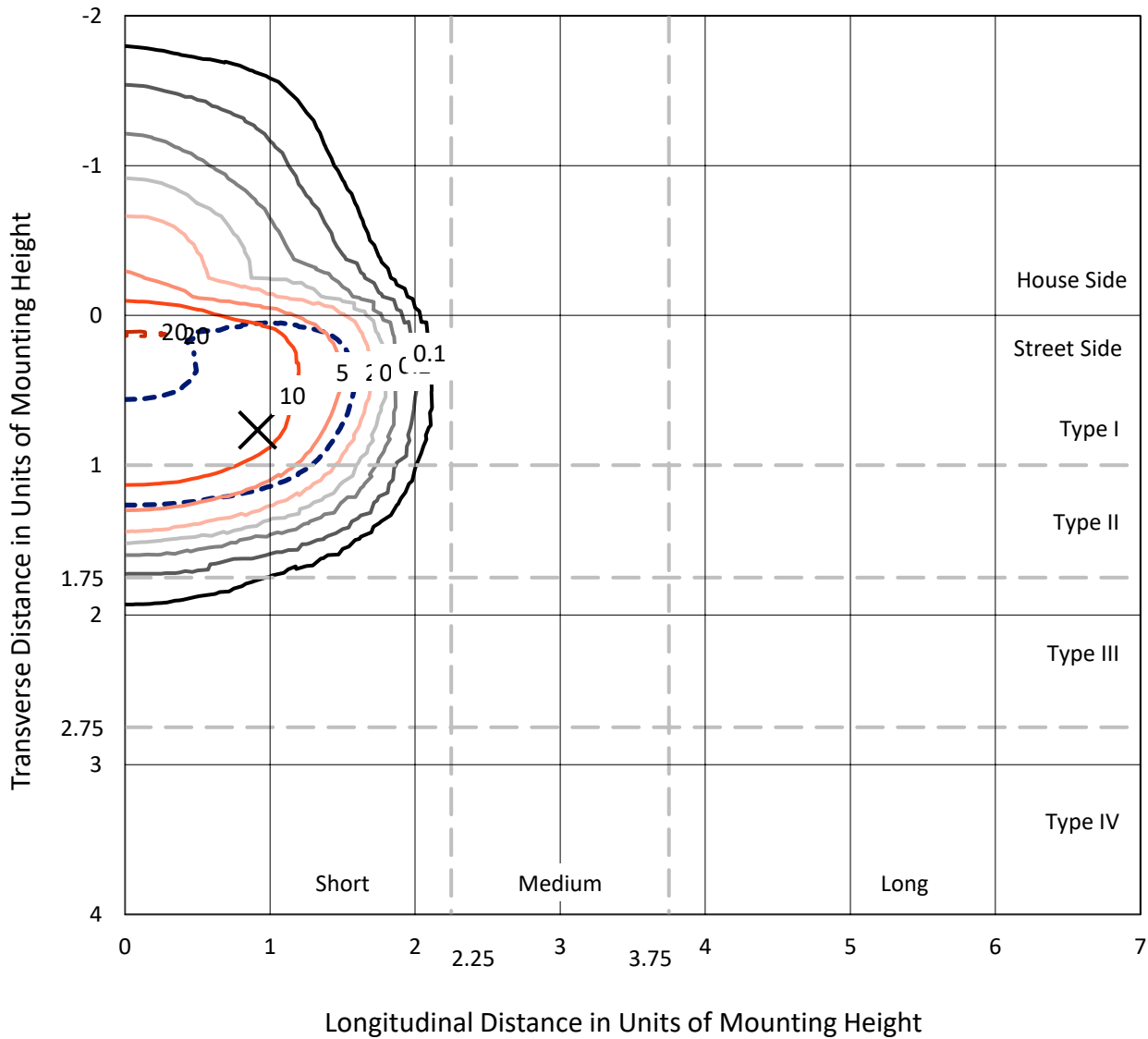
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

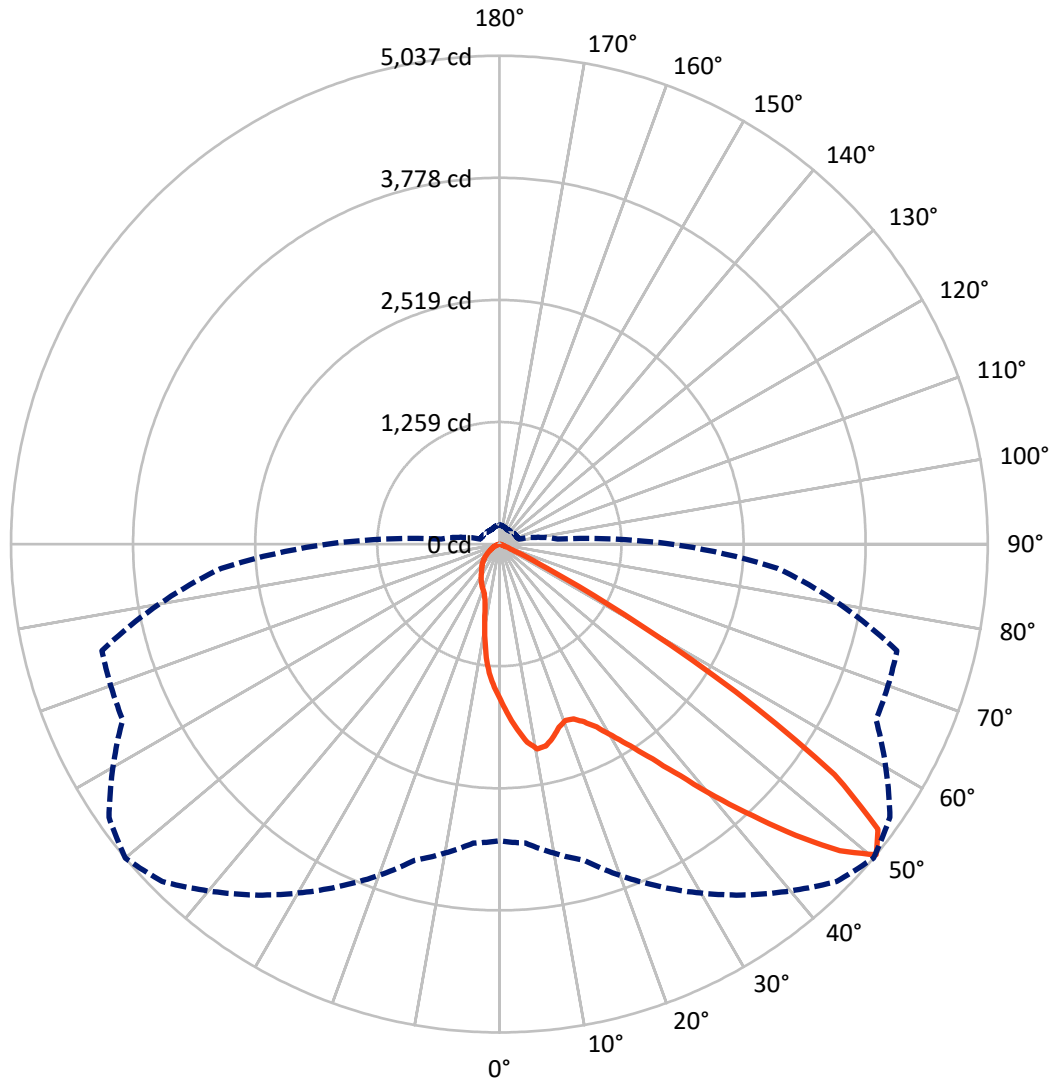
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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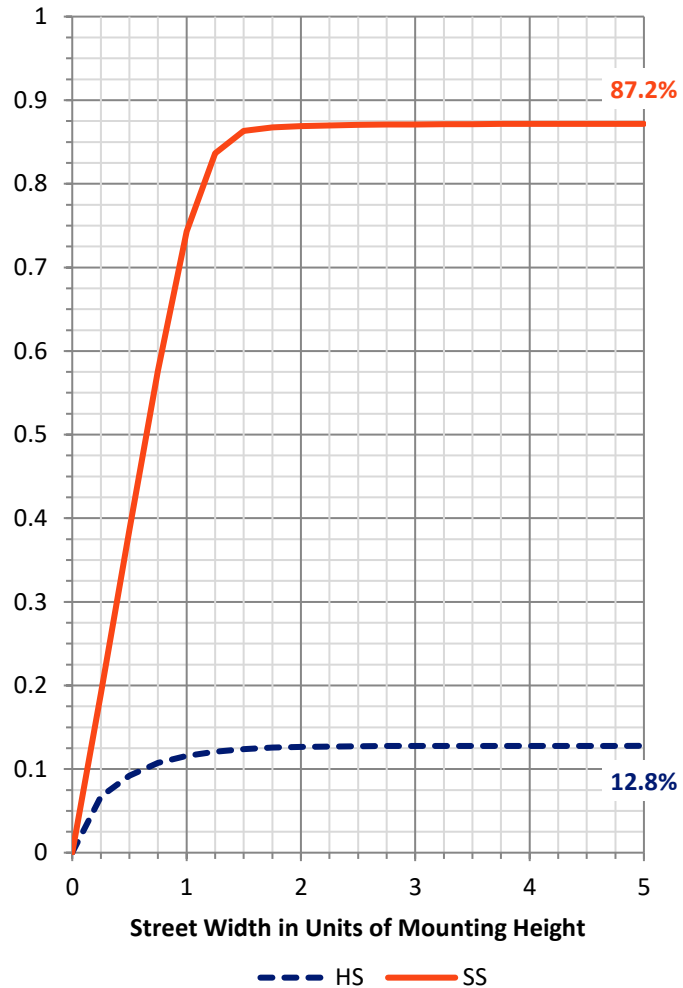
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	681.8	0.0	681.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4624.7	0.0	4624.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	5306.5	0.0	5306.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	2.8
10°-20°	384.8	7.3
20°-30°	635.0	12.0
30°-40°	1047.9	19.7
40°-50°	1658.1	31.2
50°-60°	1255.3	23.7
60°-70°	157.1	3.0
70°-80°	17.8	0.3
80°-90°	1.3	0.0
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°	5306.5	100.0
0°-180°	5306.5	100.0

Coefficient of Utilization



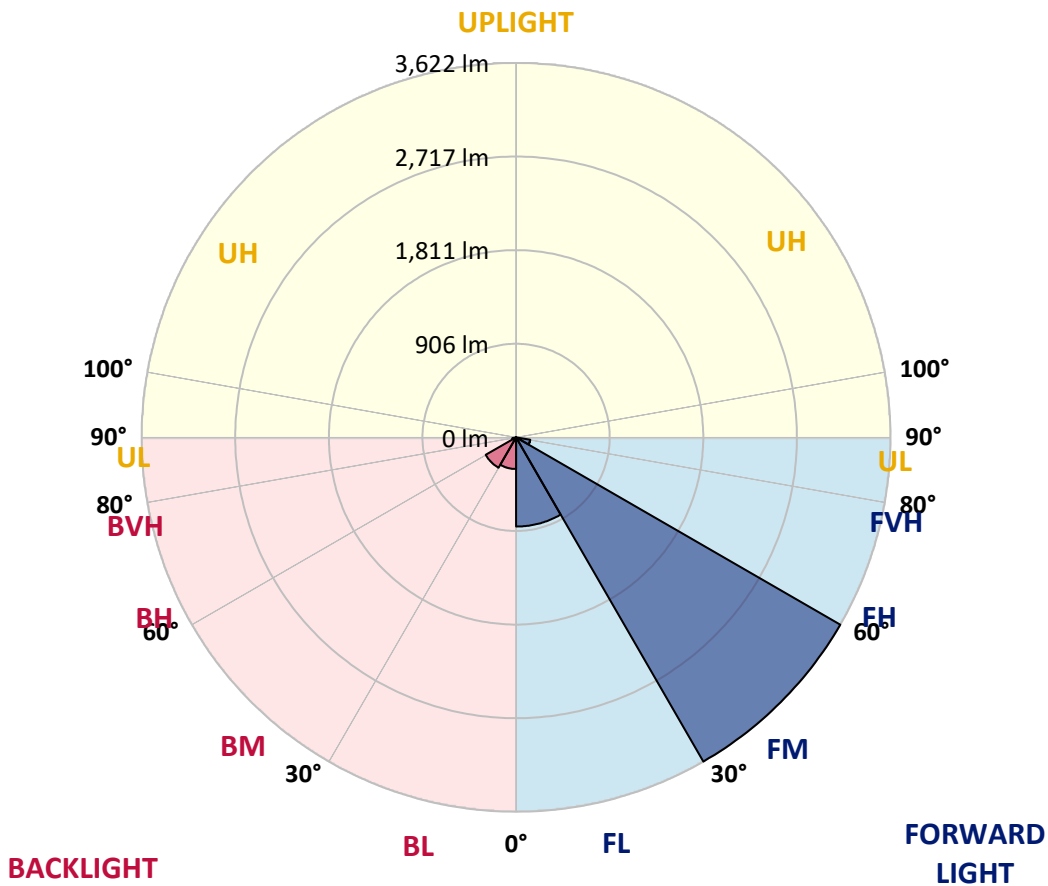
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.9	16.3			
FM (30°-60°)	3622.2	68.3			
FH (60°-80°)	138.9	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	306.0	5.8	B1/500		
BM (30°-60°)	339.1	6.4	B1/1000		
BH (60°-80°)	36.0	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7
2.5°	1831.9	1846.6	1842.5	1823.3	1802.6	1788.0	1765.2	1758.2	1706.7	1670.8	1632.9
5°	2053.1	2057.7	2052.6	2029.4	1993.0	1958.2	1920.8	1899.1	1812.7	1734.9	1655.6
7.5°	2106.2	2100.6	2110.2	2121.8	2116.8	2101.6	2062.2	2038.5	1935.5	1808.7	1688.5
10°	1940.5	1927.9	1963.7	2023.8	2087.0	2158.2	2148.1	2150.1	2055.2	1901.6	1731.4
12.5°	1720.8	1715.7	1742.5	1812.2	1936.0	2097.6	2136.5	2201.6	2164.8	2002.1	1780.4
15°	1624.3	1626.9	1643.0	1687.0	1775.8	1976.9	2070.3	2188.0	2262.7	2099.6	1834.4
17.5°	1639.0	1648.1	1647.6	1662.2	1716.2	1877.4	1986.5	2145.1	2338.5	2211.7	1896.6
20°	1738.5	1747.6	1733.9	1722.8	1741.0	1852.1	1942.5	2101.6	2389.5	2324.9	1962.2
22.5°	1887.5	1898.1	1865.8	1833.9	1822.3	1893.5	1959.2	2083.9	2428.4	2428.4	2020.8
25°	2067.8	2082.4	2032.4	1975.9	1943.5	1980.9	2030.4	2123.8	2468.3	2521.3	2060.7
27.5°	2269.3	2269.8	2226.9	2163.2	2102.6	2107.2	2137.0	2213.8	2512.3	2621.3	2092.0
30°	2496.1	2497.6	2440.5	2364.3	2288.0	2267.3	2292.5	2350.6	2603.7	2747.1	2135.5
32.5°	2789.0	2796.1	2714.3	2602.2	2503.2	2464.3	2478.9	2540.0	2749.1	2904.7	2200.6
35°	3185.0	3192.6	3071.9	2923.9	2766.3	2707.7	2722.4	2784.0	2959.7	3128.4	2304.7
37.5°	3575.9	3586.0	3463.8	3325.9	3109.8	3012.8	3027.9	3086.5	3275.9	3437.6	2471.3
40°	3846.2	3859.8	3821.9	3729.0	3528.5	3401.2	3419.4	3440.6	3623.9	3807.3	2687.5
42.5°	3988.6	4007.8	4023.9	4071.4	3965.9	3859.3	3828.5	3830.0	3978.0	4184.1	2912.3
45°	3997.2	4015.9	4098.7	4282.0	4362.3	4340.1	4284.1	4246.2	4248.2	4435.1	3052.7
47.5°	3719.4	3754.2	3909.3	4268.4	4570.4	4754.8	4726.5	4636.6	4361.8	4451.7	3037.5
50°	3061.3	3095.6	3377.4	3894.1	4418.9	4920.5	5037.1	4916.4	4287.6	4244.2	2881.5
52.5°	2223.3	2226.9	2409.7	3013.3	3804.7	4614.9	4889.6	4878.0	4174.5	3992.6	2668.3
55°	1056.1	1043.5	1249.1	1700.6	2631.4	3732.5	4195.7	4327.0	4013.8	3810.8	2503.2
57.5°	307.6	313.7	405.1	663.7	1316.2	2385.5	2873.4	3117.8	3294.6	3133.0	1941.5
60°	137.9	138.4	154.0	202.0	438.4	1109.7	1485.4	1788.0	1969.8	1825.3	963.2
62.5°	100.0	100.5	106.6	114.1	149.0	375.8	557.1	742.5	756.1	495.0	244.0
65°	83.3	83.3	84.3	84.3	89.4	134.4	169.2	218.2	183.8	136.4	95.5
67.5°	67.2	67.7	68.7	68.7	67.2	67.2	72.7	79.8	85.4	105.6	87.9
70°	52.5	52.0	52.0	52.5	51.0	43.4	47.0	53.5	58.6	82.3	76.3
72.5°	40.9	41.4	40.9	38.9	35.4	25.8	27.8	34.9	37.4	51.5	51.5
75°	30.8	31.3	29.3	22.2	14.6	8.1	10.6	17.2	21.7	25.3	18.7
77.5°	4.0	4.0	3.0	3.0	2.5	3.0	3.0	4.0	6.1	6.1	4.5
80°	0.5	0.5	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.5	2.5
82.5°	0.5	0.5	0.5	0.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	1.5	2.0	2.0	2.0
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°	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7	1607.7
2.5°	1610.2	1580.9	1545.5	1521.3	1486.9	1464.2	1431.9	1410.2	1391.5	1376.8	1384.9
5°	1610.7	1564.2	1492.0	1430.4	1363.2	1301.6	1235.4	1183.4	1136.4	1115.2	1126.8
7.5°	1620.8	1554.1	1443.5	1333.9	1205.1	1077.8	958.6	861.7	813.7	790.9	798.0
10°	1640.5	1549.6	1389.5	1207.6	998.5	824.8	709.1	643.5	616.7	602.6	605.1
12.5°	1658.7	1546.5	1319.3	1041.5	787.9	639.9	579.8	570.7	576.3	576.8	576.3
15°	1683.4	1541.0	1232.4	870.8	630.3	553.1	554.6	567.7	580.8	584.9	583.9
17.5°	1709.7	1532.4	1120.3	707.1	534.9	527.8	545.5	563.2	576.3	578.3	578.8
20°	1737.0	1514.7	992.5	577.3	490.4	508.6	528.3	541.4	551.0	554.1	555.1
22.5°	1749.6	1477.3	845.0	484.4	460.6	484.9	499.5	516.7	519.7	508.6	510.6
25°	1743.0	1414.2	701.0	421.7	430.8	455.1	476.8	468.2	455.6	447.5	450.0
27.5°	1722.3	1330.4	560.1	375.8	399.0	429.8	432.3	422.7	420.7	414.2	416.2
30°	1700.1	1233.9	450.5	338.9	366.7	399.0	391.4	395.0	395.5	387.9	390.4
32.5°	1686.5	1132.9	358.6	314.2	346.0	352.0	367.2	374.3	374.8	357.1	360.1
35°	1691.0	1033.4	303.6	294.0	326.8	325.3	346.5	350.5	321.2	297.0	299.5
37.5°	1727.9	941.5	272.2	278.3	293.4	305.1	321.2	294.5	287.9	276.8	278.3
40°	1796.6	863.2	253.5	268.7	270.7	289.4	264.7	268.2	268.7	261.6	263.1
42.5°	1876.9	798.0	242.4	263.1	258.1	261.1	236.4	243.4	251.0	248.0	248.5
45°	1917.3	734.4	232.8	244.0	245.5	216.7	211.1	218.7	228.3	229.8	230.3
47.5°	1881.4	673.8	222.7	216.2	226.3	197.5	190.9	193.4	204.6	210.6	211.6
50°	1771.8	604.1	207.6	191.4	185.9	177.3	171.2	171.7	184.4	195.0	197.0
52.5°	1617.8	531.3	182.8	162.1	149.5	156.1	157.6	154.6	166.2	176.8	178.8
55°	1468.3	440.4	145.0	131.8	120.2	134.4	138.4	134.4	137.9	145.0	145.5
57.5°	1033.9	249.0	111.1	109.1	99.5	115.2	121.7	115.7	109.6	114.1	115.2
60°	479.3	130.3	85.4	85.4	82.8	99.0	110.1	101.5	89.9	91.9	93.4
62.5°	150.0	82.3	62.6	59.1	67.7	84.3	93.4	84.9	71.2	71.2	73.2
65°	84.9	70.7	49.5	45.5	55.1	67.7	73.2	64.1	52.0	51.0	51.0
67.5°	78.8	67.2	43.9	36.9	38.9	43.4	45.5	39.4	35.9	35.4	35.9
70°	65.2	56.1	35.4	25.3	23.7	23.2	24.2	22.7	21.7	22.2	23.7
72.5°	40.4	33.8	22.2	15.2	13.1	12.6	12.6	12.6	12.1	12.1	12.1
75°	14.6	12.6	10.1	7.6	6.6	6.1	6.1	6.6	6.1	5.6	5.1
77.5°	4.5	4.0	4.0	4.0	3.5	3.0	2.5	2.5	2.0	1.5	1.5
80°	2.5	2.5	2.5	2.5	2.0	2.0	1.5	1.0	0.5	0.5	0.0
82.5°	2.5	2.5	2.5	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	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)