

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: P631262

Luminaire Tested: GWS-SA1F-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7325.1 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

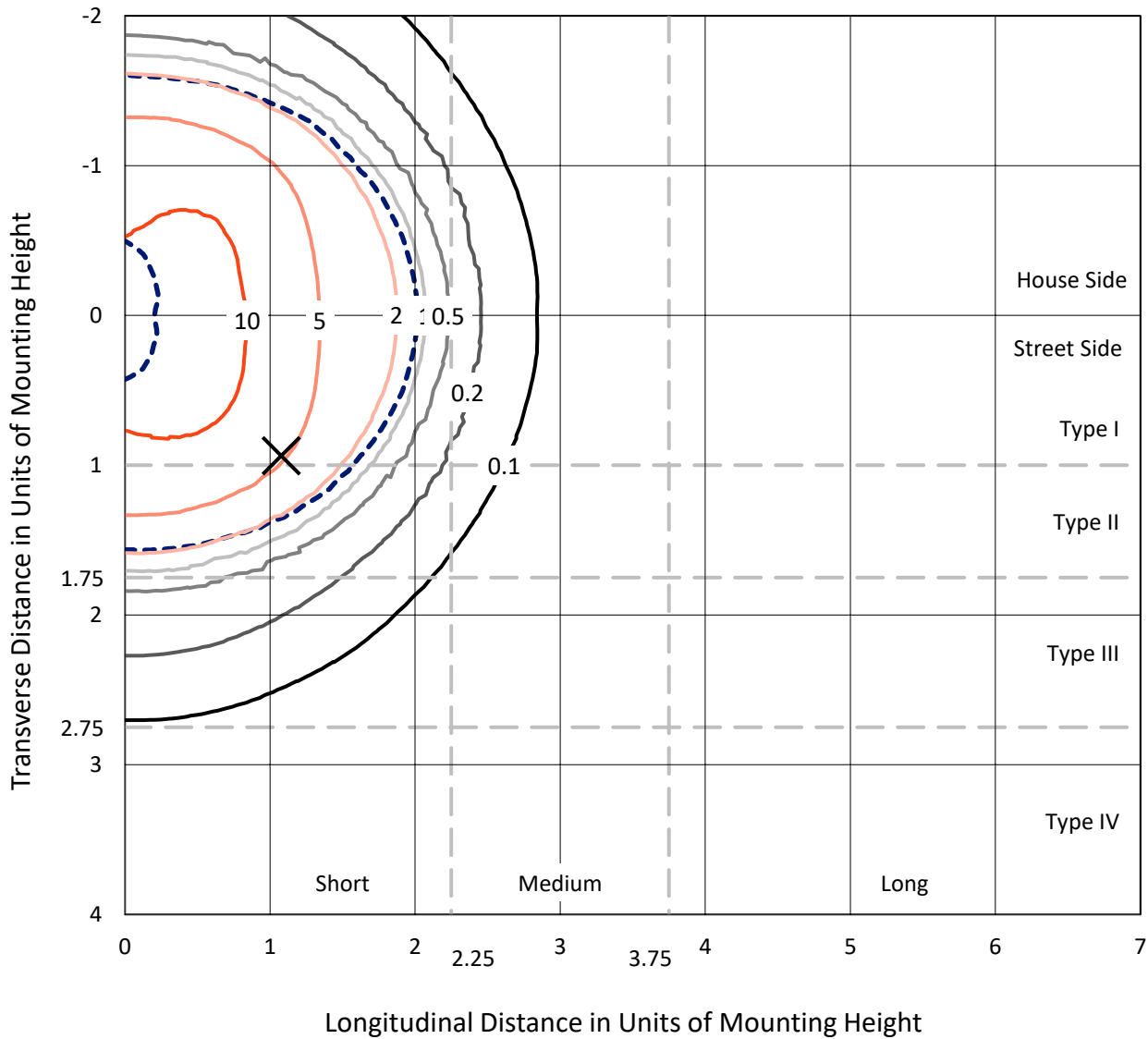
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

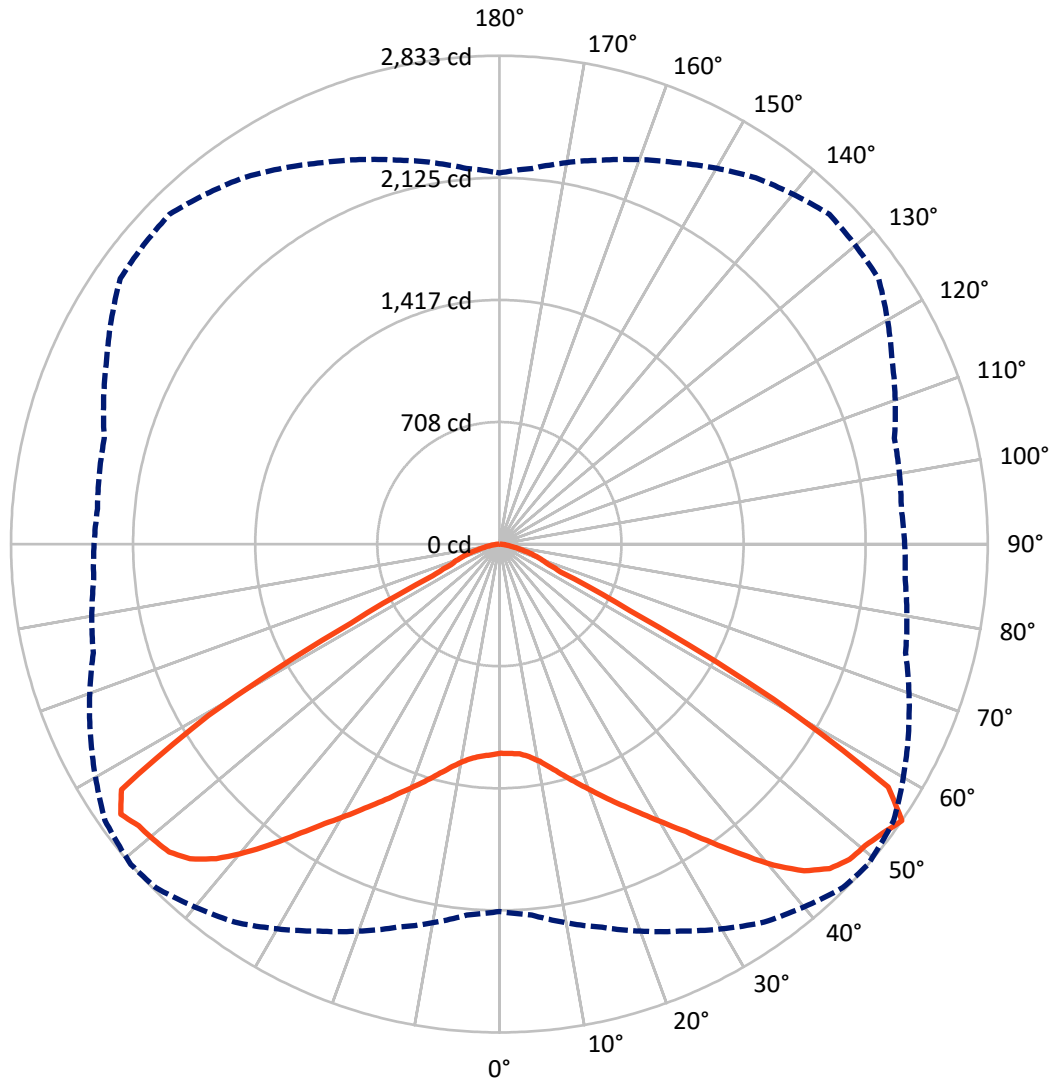
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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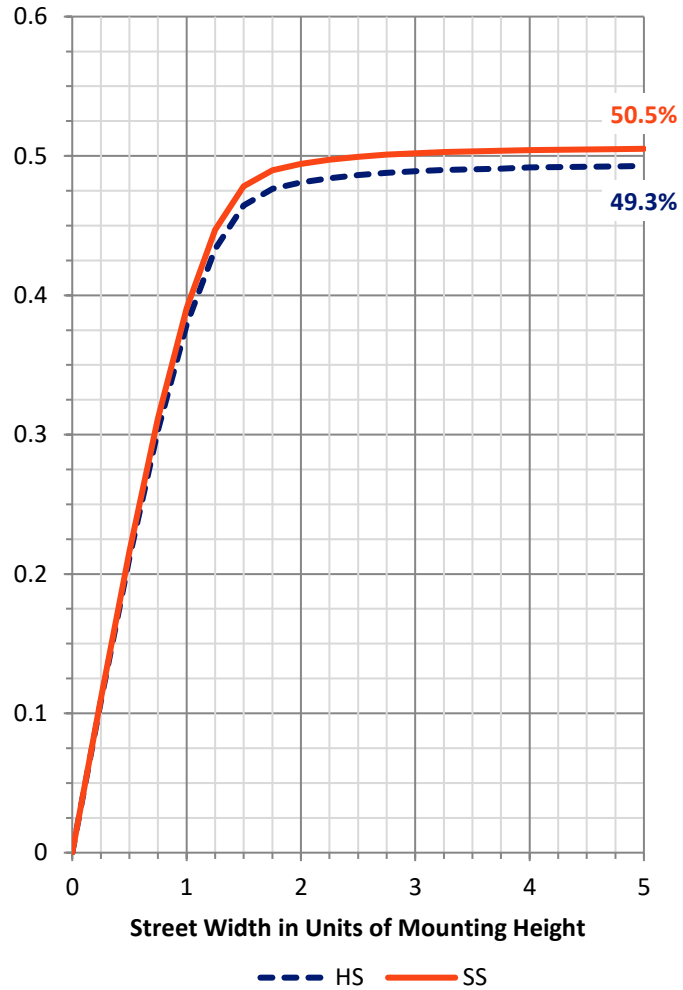
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3626.6	0.0	3626.6
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	3698.5	0.0	3698.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	7325.1	0.0	7325.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.6
10°-20°	390.4	5.3
20°-30°	743.7	10.2
30°-40°	1260.7	17.2
40°-50°	1897.3	25.9
50°-60°	2076.7	28.4
60°-70°	656.7	9.0
70°-80°	157.6	2.2
80°-90°	23.7	0.3
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°	7325.1	100.0
0°-180°	7325.1	100.0

Coefficient of Utilization



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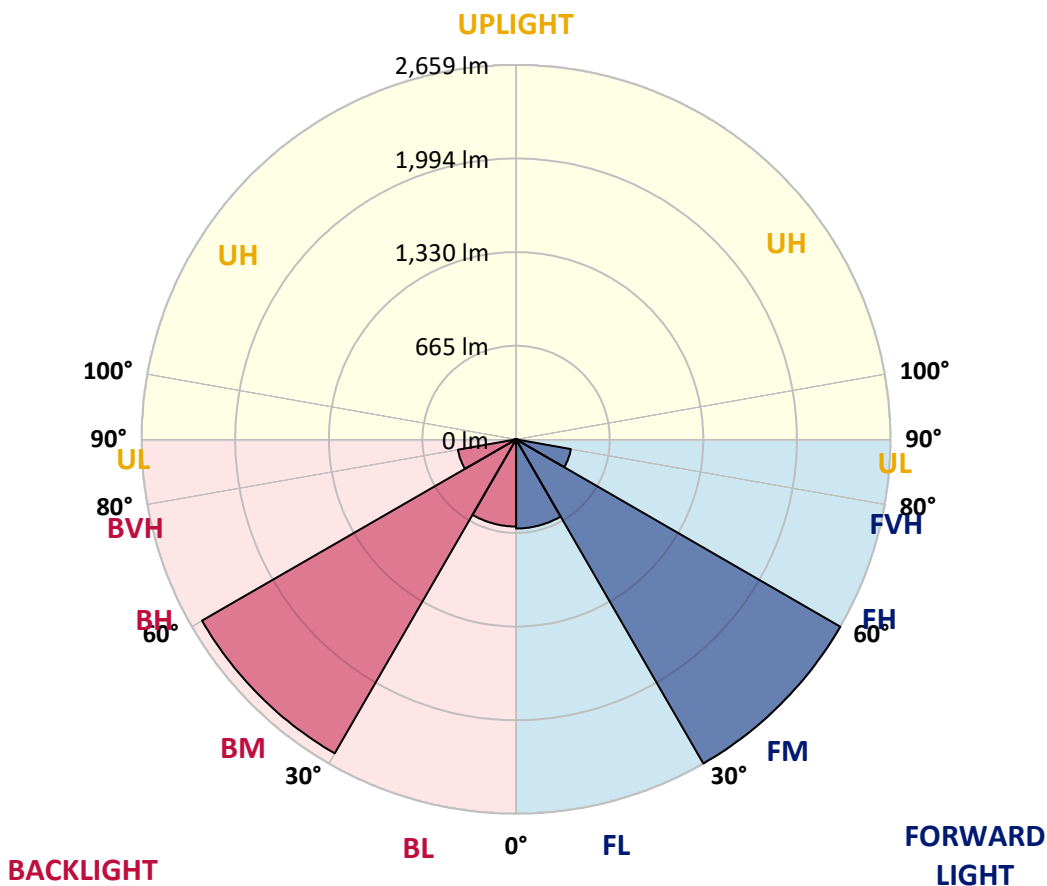
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.3	8.6			
FM (30°-60°)	2659.2	36.3			
FH (60°-80°)	395.0	5.4			G0/660
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	619.2	8.5	B2/1000		
BM (30°-60°)	2575.5	35.2	B3/5000		
BH (60°-80°)	419.3	5.7	B1/500		G0/660
BVH (80°-90°)	12.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1195.6	1196.8	1199.2	1203.3	1207.5	1213.4	1215.8	1218.8	1218.2	1221.8	1221.8
5°	1189.6	1191.4	1195.0	1200.9	1208.1	1219.4	1222.4	1229.5	1236.7	1245.6	1248.6
7.5°	1196.8	1199.2	1203.3	1212.9	1223.6	1238.5	1244.4	1256.3	1270.0	1286.1	1292.7
10°	1210.5	1213.4	1220.6	1236.1	1253.4	1276.0	1281.4	1296.2	1318.3	1340.3	1353.4
12.5°	1226.0	1230.7	1243.8	1268.3	1293.9	1323.7	1332.0	1350.5	1374.3	1402.9	1420.8
15°	1243.8	1248.0	1268.3	1302.8	1342.7	1382.0	1391.6	1409.4	1436.2	1464.2	1489.3
17.5°	1281.4	1288.5	1312.3	1352.2	1398.7	1445.2	1455.9	1476.2	1497.6	1519.6	1543.5
20°	1332.6	1338.5	1368.9	1418.4	1473.2	1515.5	1526.2	1544.1	1554.2	1565.5	1585.8
22.5°	1383.8	1392.2	1426.7	1485.1	1549.4	1595.3	1603.6	1620.3	1613.2	1609.6	1622.7
25°	1447.6	1458.9	1492.8	1556.6	1622.1	1678.7	1685.2	1699.5	1687.6	1669.2	1668.6
27.5°	1526.8	1536.9	1572.1	1637.6	1702.5	1761.5	1774.0	1793.1	1766.9	1744.2	1728.1
30°	1620.9	1627.5	1666.2	1735.9	1802.6	1858.6	1874.7	1893.7	1874.1	1836.6	1820.5
32.5°	1730.5	1739.5	1784.1	1857.4	1917.0	1973.0	1989.1	2012.9	1991.4	1949.1	1928.9
35°	1862.2	1871.1	1918.2	1998.0	2058.7	2116.5	2127.9	2147.5	2120.7	2071.9	2055.8
37.5°	2005.1	2016.5	2076.0	2151.7	2215.4	2282.7	2283.3	2289.3	2251.2	2190.4	2172.5
40°	2166.0	2180.9	2240.4	2319.1	2395.9	2450.7	2450.1	2433.4	2369.1	2275.0	2247.6
42.5°	2325.0	2336.9	2397.1	2478.1	2555.0	2606.8	2591.3	2550.8	2457.9	2329.8	2293.5
45°	2440.0	2448.9	2512.1	2603.2	2681.3	2713.4	2685.4	2636.6	2510.9	2364.3	2310.7
47.5°	2494.2	2506.1	2569.9	2660.4	2748.6	2767.0	2733.7	2687.8	2541.9	2396.5	2324.4
50°	2465.0	2480.5	2552.6	2636.6	2736.1	2774.2	2750.4	2704.5	2574.6	2428.1	2348.9
52.5°	2389.4	2404.3	2495.4	2597.3	2709.9	2785.5	2784.9	2747.4	2612.2	2437.0	2350.0
55°	2130.8	2160.0	2301.8	2477.5	2677.7	2818.9	2833.2	2793.3	2618.1	2439.4	2362.6
57.5°	1386.8	1438.0	1572.7	1801.4	2202.9	2563.9	2660.4	2669.9	2575.2	2429.3	2364.9
60°	579.0	620.1	726.8	878.7	1210.5	1640.0	1827.0	2014.7	2241.0	2323.2	2342.9
62.5°	359.8	363.4	374.1	408.7	519.5	729.1	849.5	1025.2	1361.8	1648.3	1780.6
65°	324.7	326.4	328.8	326.4	331.8	357.4	389.6	450.9	588.0	730.3	899.5
67.5°	285.9	288.3	290.1	288.3	290.1	291.3	294.9	300.2	325.3	345.5	361.0
70°	231.1	234.7	237.7	236.5	243.6	243.6	247.2	251.4	263.9	278.8	289.5
72.5°	176.3	173.3	176.9	178.1	184.7	188.2	193.6	198.4	212.7	221.6	235.3
75°	114.4	111.4	116.8	119.7	128.7	133.4	138.2	143.0	153.1	159.1	172.2
77.5°	62.0	61.4	66.7	70.9	80.4	86.4	90.0	93.5	101.9	103.7	112.0
80°	35.7	35.7	39.3	42.3	48.3	54.8	58.4	61.4	67.3	69.1	72.7
82.5°	19.7	19.7	21.4	23.2	28.0	31.6	34.6	36.9	42.3	44.1	45.9
85°	9.5	8.9	10.1	11.3	13.1	14.9	16.7	17.9	22.0	23.2	25.6
87.5°	1.2	1.2	1.2	1.8	2.4	3.6	4.2	4.2	6.6	7.7	8.9
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°	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1225.4	1217.6	1222.4	1224.2	1224.2	1222.4	1214.6	1212.3	1208.7	1203.3	1203.3
5°	1252.8	1246.8	1248.0	1245.0	1237.9	1228.9	1214.6	1207.5	1201.5	1195.0	1194.4
7.5°	1299.8	1292.1	1290.9	1279.6	1260.5	1241.4	1220.0	1206.9	1198.0	1189.6	1189.0
10°	1361.2	1354.0	1345.1	1322.5	1294.5	1266.5	1237.3	1219.4	1206.3	1194.4	1193.8
12.5°	1429.7	1421.3	1404.7	1371.3	1336.2	1308.8	1275.4	1248.0	1228.3	1212.3	1209.3
15°	1504.2	1492.2	1463.6	1424.3	1389.8	1360.6	1324.8	1285.5	1255.7	1230.1	1227.1
17.5°	1561.3	1545.8	1514.9	1477.9	1449.3	1420.2	1373.7	1324.2	1281.4	1249.2	1244.4
20°	1600.7	1588.1	1553.0	1525.6	1508.9	1483.3	1429.1	1373.1	1324.8	1284.3	1282.0
22.5°	1637.0	1622.1	1587.5	1571.5	1571.5	1554.2	1502.4	1436.2	1379.6	1332.6	1326.6
25°	1678.1	1662.0	1635.8	1634.0	1642.4	1634.6	1572.1	1501.2	1435.0	1382.0	1372.5
27.5°	1735.3	1717.4	1701.9	1712.6	1724.6	1716.2	1646.5	1564.3	1494.6	1441.0	1432.7
30°	1826.4	1804.4	1790.1	1803.2	1826.4	1802.0	1726.3	1639.4	1569.1	1510.1	1505.9
32.5°	1932.5	1907.4	1892.5	1913.4	1934.2	1896.1	1821.1	1737.7	1663.8	1601.8	1594.7
35°	2059.9	2028.4	2006.3	2034.3	2055.8	2018.2	1943.8	1864.6	1782.3	1718.0	1708.5
37.5°	2173.1	2135.0	2120.1	2159.4	2188.0	2163.6	2082.6	2008.1	1918.2	1847.9	1843.7
40°	2255.3	2217.8	2207.1	2272.0	2322.1	2316.1	2243.4	2158.2	2073.6	1992.6	1984.9
42.5°	2291.1	2264.9	2267.2	2354.8	2432.3	2470.4	2405.4	2314.3	2232.7	2148.7	2143.3
45°	2298.8	2282.7	2301.8	2411.4	2513.3	2591.3	2535.9	2459.7	2367.3	2286.3	2283.9
47.5°	2307.2	2298.2	2327.4	2443.6	2564.5	2655.0	2624.1	2545.4	2451.9	2372.7	2366.7
50°	2326.8	2323.2	2356.0	2466.2	2588.9	2672.3	2637.2	2559.1	2463.2	2385.2	2370.9
52.5°	2332.8	2326.8	2373.9	2501.4	2629.4	2671.7	2596.1	2494.2	2397.7	2310.7	2295.8
55°	2351.2	2340.5	2372.7	2514.5	2685.4	2706.3	2593.7	2441.2	2306.6	2188.0	2152.9
57.5°	2356.0	2344.1	2364.9	2493.0	2624.7	2606.2	2279.8	1970.0	1716.2	1584.6	1599.5
60°	2330.4	2334.0	2298.2	2283.9	2105.2	1858.6	1395.7	1115.8	876.3	775.0	797.1
62.5°	1774.0	1788.9	1666.8	1449.3	1114.6	883.4	584.4	453.9	384.2	366.4	369.3
65°	895.3	915.6	788.7	652.3	484.9	392.0	339.0	328.2	324.7	320.5	320.5
67.5°	354.4	360.4	355.6	333.0	309.8	301.4	299.0	297.9	293.7	291.3	291.9
70°	284.7	289.5	282.4	268.1	258.5	257.9	256.7	254.4	251.4	251.4	253.2
72.5°	232.3	237.1	227.0	218.0	210.9	205.5	202.5	200.8	196.6	196.6	198.4
75°	171.0	173.9	165.6	164.4	156.7	151.3	146.5	144.2	138.8	136.4	138.2
77.5°	113.8	113.2	109.0	109.0	106.0	99.5	94.1	88.8	81.6	76.8	78.0
80°	73.9	73.9	72.1	72.1	69.1	63.7	57.2	51.8	47.7	44.1	44.1
82.5°	47.1	46.5	45.9	45.3	44.1	38.7	34.0	30.4	27.4	25.0	25.6
85°	26.2	26.2	25.0	25.0	22.6	19.7	17.3	14.9	13.1	12.5	12.5
87.5°	8.9	8.9	8.3	8.3	7.1	5.4	4.2	3.6	3.0	2.4	3.0
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)