

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: P632253

Luminaire Tested: GWS-SA2C-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9397.1 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

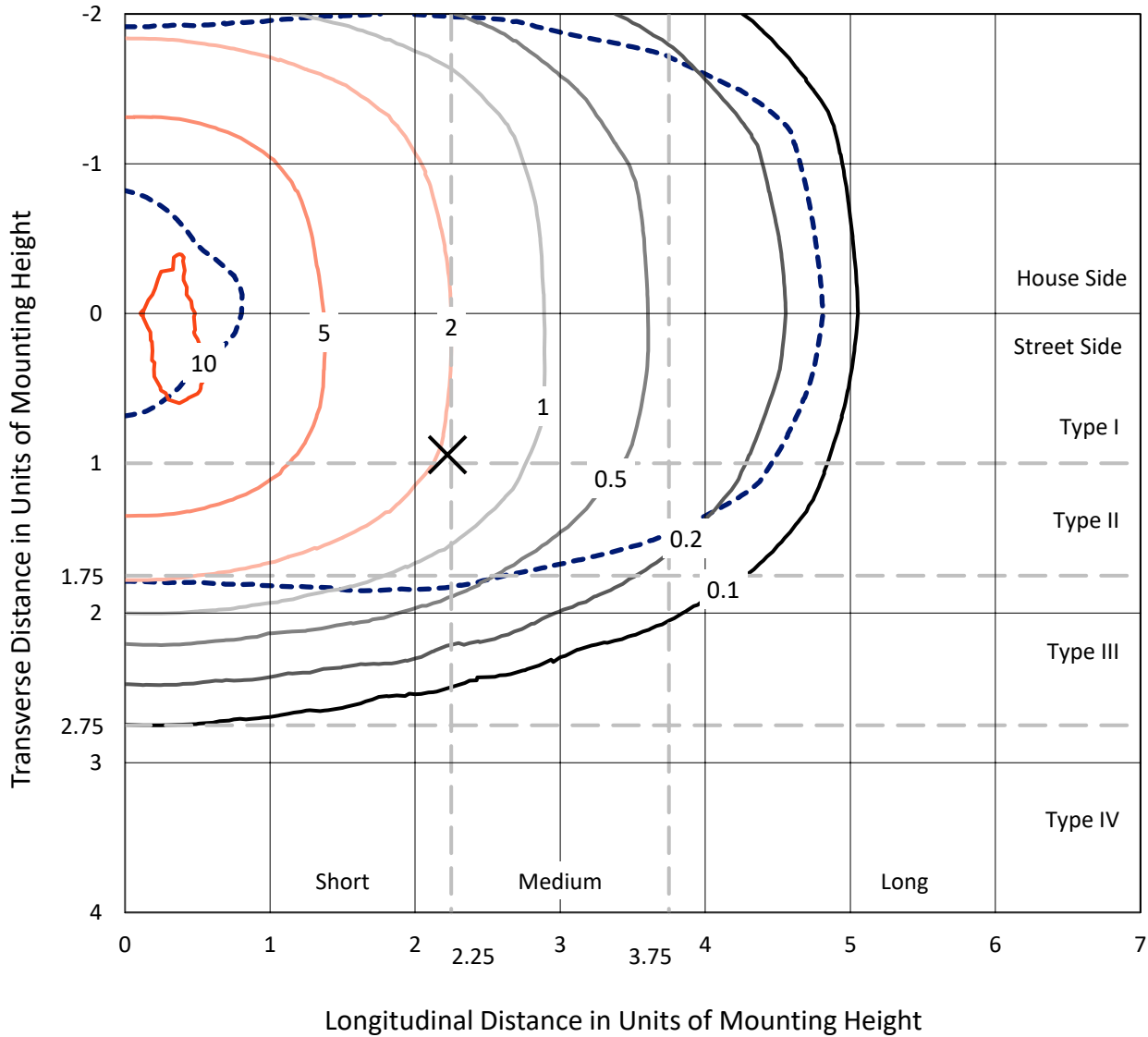
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

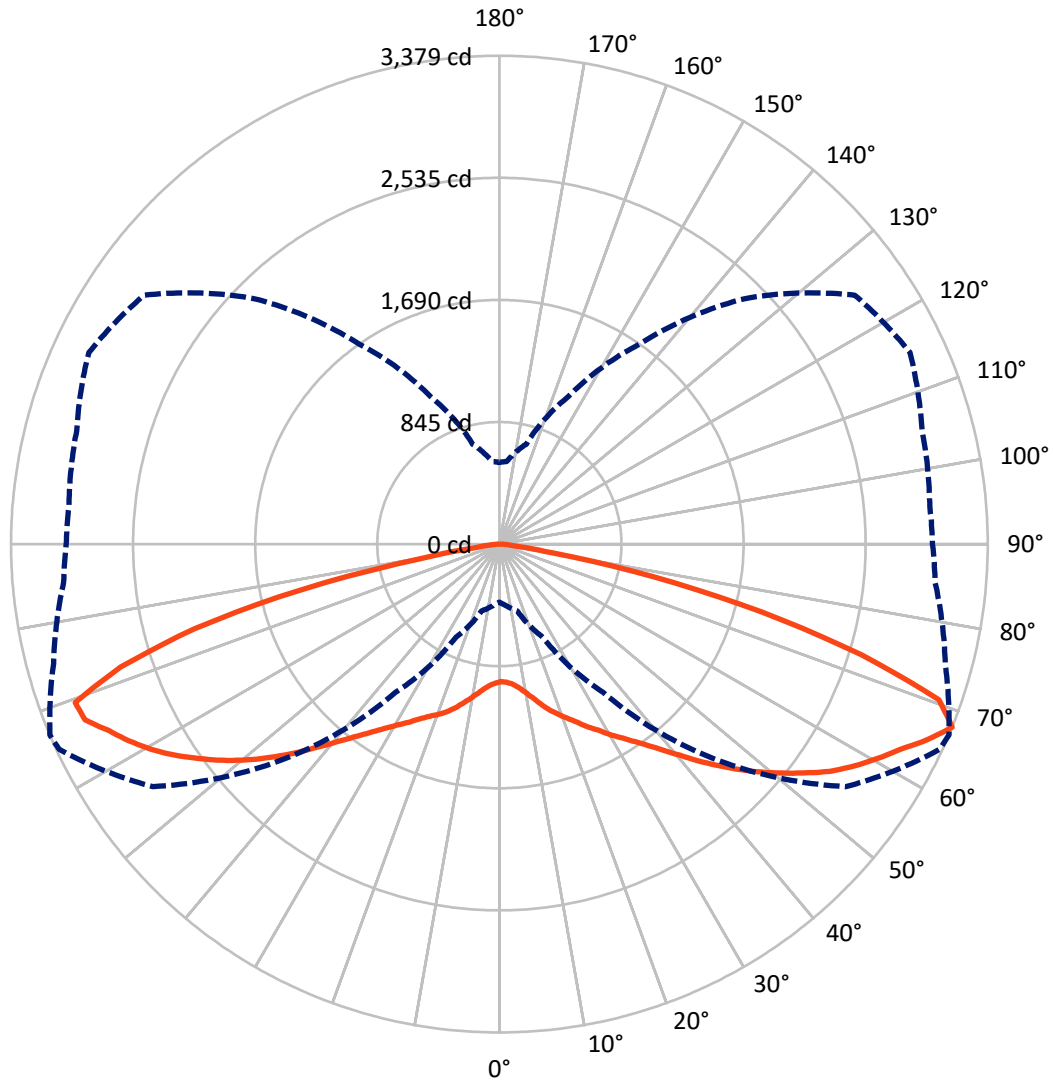
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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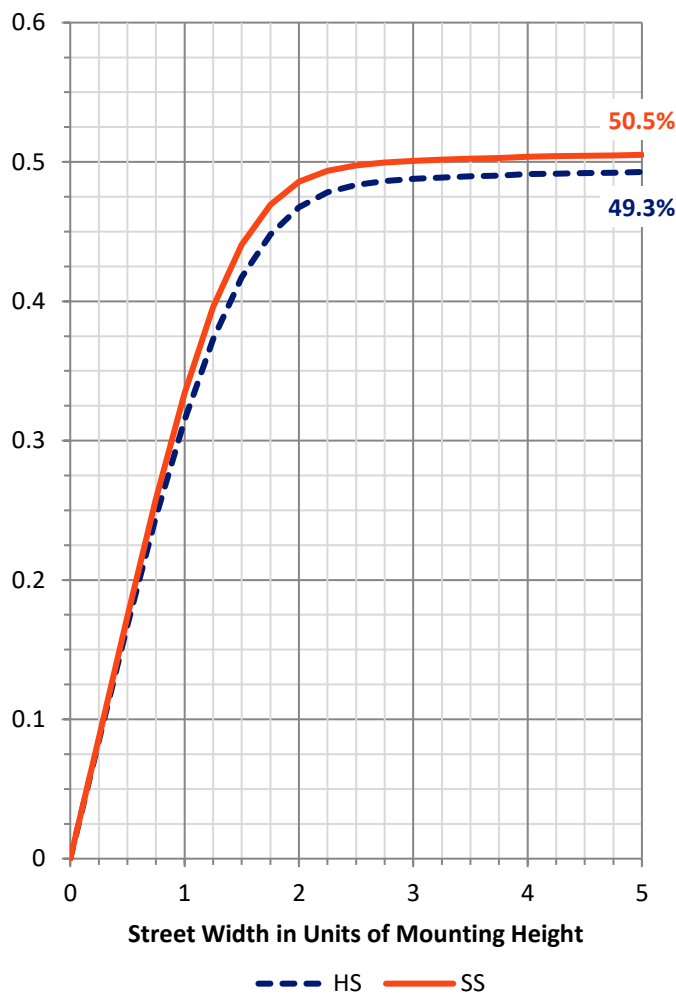
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4646.7	0.0	4646.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	4750.4	0.0	4750.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	9397.1	0.0	9397.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.0
10°-20°	315.4	3.4
20°-30°	618.8	6.6
30°-40°	1054.2	11.2
40°-50°	1692.9	18.0
50°-60°	2300.2	24.5
60°-70°	2200.3	23.4
70°-80°	1046.1	11.1
80°-90°	75.8	0.8
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°	9397.1	100.0
0°-180°	9397.1	100.0

Coefficient of Utilization



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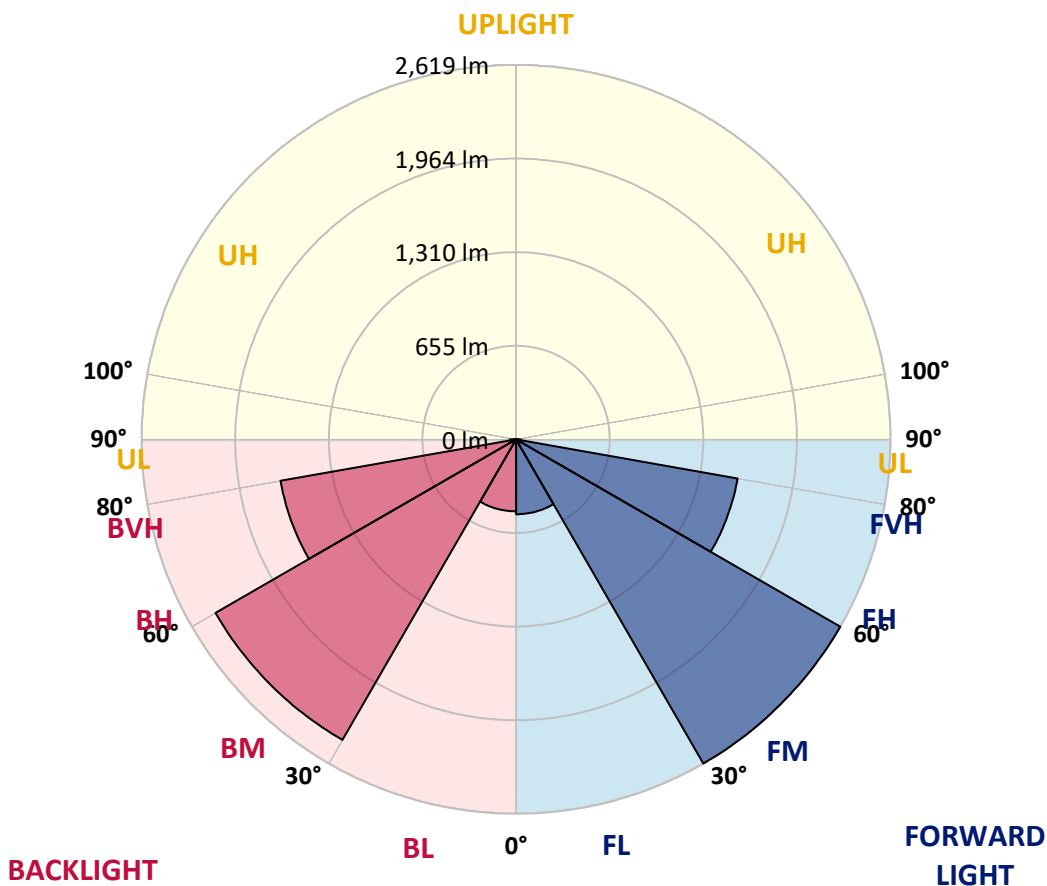
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.0	5.6			
FM (30°-60°)	2619.1	27.9			
FH (60°-80°)	1573.3	16.7			G1/1800
FVH (80°-90°)	34.1	0.4			G1/100
BL (0°-30°)	503.6	5.4	B2/1000		
BM (30°-60°)	2428.3	25.8	B2/2500		
BH (60°-80°)	1673.1	17.8	B3/2500		G3/2500
BVH (80°-90°)	41.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5
2.5°	931.9	933.2	935.1	939.1	943.0	948.9	954.8	954.1	956.7	958.7	960.7
5°	926.6	928.0	931.2	936.5	942.3	952.2	964.6	969.8	973.8	981.0	987.5
7.5°	937.8	940.4	945.0	952.2	961.3	973.8	990.8	999.9	1005.8	1018.9	1030.0
10°	952.8	956.1	965.3	979.0	992.7	1011.7	1033.3	1047.1	1051.0	1068.0	1088.9
12.5°	967.2	971.1	986.2	1011.1	1035.9	1061.4	1087.0	1104.0	1105.3	1128.2	1151.8
15°	990.1	993.4	1013.7	1045.7	1083.7	1119.0	1150.4	1162.2	1167.5	1183.8	1213.3
17.5°	1040.5	1044.4	1070.6	1105.3	1145.2	1182.5	1213.9	1223.7	1223.7	1237.5	1261.7
20°	1094.8	1098.8	1133.4	1177.9	1226.4	1264.3	1288.5	1279.4	1276.1	1280.0	1297.0
22.5°	1155.7	1162.9	1196.3	1248.0	1307.5	1354.0	1366.4	1338.9	1329.8	1320.6	1324.5
25°	1233.6	1242.1	1274.8	1329.8	1388.0	1437.1	1444.3	1401.7	1396.5	1364.4	1352.7
27.5°	1323.2	1329.8	1370.3	1424.6	1479.0	1520.2	1528.0	1475.7	1458.0	1413.5	1386.0
30°	1439.0	1444.9	1480.3	1533.9	1581.0	1609.8	1619.7	1547.7	1533.9	1465.9	1423.3
32.5°	1565.3	1568.0	1604.0	1655.7	1697.5	1725.0	1711.3	1627.5	1607.2	1530.7	1472.4
35°	1710.0	1710.0	1756.4	1798.3	1831.7	1839.5	1813.4	1717.8	1694.3	1611.2	1538.5
37.5°	1852.0	1855.9	1899.1	1948.8	1978.3	1977.0	1929.2	1824.5	1797.7	1707.3	1626.9
40°	2005.8	2014.3	2057.5	2113.1	2141.2	2137.3	2064.0	1947.5	1920.0	1813.4	1734.8
42.5°	2147.1	2160.9	2211.2	2268.2	2298.9	2296.3	2219.8	2088.9	2062.0	1941.6	1863.1
45°	2259.7	2274.1	2336.9	2416.1	2465.2	2460.6	2383.4	2235.5	2202.7	2076.4	1990.1
47.5°	2358.5	2373.5	2443.6	2527.3	2605.2	2613.0	2542.4	2383.4	2348.7	2221.1	2123.6
50°	2434.4	2441.6	2520.1	2611.7	2702.0	2745.9	2684.4	2531.9	2490.0	2363.7	2253.8
52.5°	2428.5	2438.3	2535.2	2659.5	2780.6	2852.6	2810.0	2671.9	2631.4	2493.9	2386.6
55°	2308.8	2318.6	2433.7	2615.0	2824.4	2930.4	2925.9	2805.4	2776.0	2626.8	2524.7
57.5°	2134.0	2155.6	2270.1	2465.8	2766.8	2992.6	3010.9	2927.2	2896.4	2757.0	2661.5
60°	1821.2	1850.0	1982.2	2236.1	2582.3	2971.7	3101.9	3029.9	3010.9	2878.1	2785.2
62.5°	1323.2	1344.2	1520.2	1853.3	2308.8	2822.5	3178.5	3135.9	3121.5	2986.7	2897.1
65°	792.5	840.3	981.6	1310.8	1862.4	2541.1	3136.6	3274.7	3259.6	3098.6	2992.6
67.5°	401.2	422.7	478.4	710.7	1252.5	2102.6	2926.5	3361.0	3379.4	3194.2	3026.6
70°	248.7	254.6	270.3	350.8	625.6	1381.5	2393.2	3135.9	3225.6	3179.1	2938.3
72.5°	199.6	200.9	203.5	218.6	300.4	645.9	1513.0	2456.0	2617.6	2969.0	2812.0
75°	165.6	166.2	166.9	171.5	187.2	263.7	736.2	1687.7	1876.8	2523.4	2607.2
77.5°	132.8	129.6	132.2	134.2	138.1	147.2	253.9	900.5	1092.2	1656.3	2016.2
80°	86.4	85.1	90.3	92.3	96.2	102.1	135.5	305.6	371.0	602.7	641.3
82.5°	46.5	43.8	55.0	53.0	55.0	59.6	79.8	111.9	125.6	181.9	153.8
85°	14.4	14.4	15.1	17.7	21.6	20.9	34.7	55.0	60.9	77.9	57.6
87.5°	2.6	2.6	2.6	2.6	2.6	3.3	7.2	11.1	15.1	26.8	20.3
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°	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5	951.5
2.5°	964.6	958.7	962.0	963.9	963.3	962.0	955.4	954.1	950.9	945.6	944.3
5°	993.4	986.8	987.5	985.5	979.0	970.5	956.1	948.9	943.0	936.5	935.8
7.5°	1038.5	1031.3	1029.4	1020.2	1001.9	982.3	959.4	946.3	936.5	928.0	926.6
10°	1096.1	1088.9	1082.4	1060.8	1030.7	1004.5	974.4	955.4	941.0	930.6	928.6
12.5°	1160.3	1154.4	1138.0	1106.6	1070.6	1039.9	1009.1	985.5	964.6	948.9	946.9
15°	1231.6	1218.5	1193.6	1153.1	1119.0	1094.2	1056.9	1024.8	991.4	970.5	965.9
17.5°	1281.3	1270.2	1240.8	1201.5	1174.7	1153.1	1109.2	1063.4	1018.3	987.5	981.0
20°	1316.7	1304.9	1271.5	1242.7	1234.2	1215.9	1164.8	1111.8	1059.5	1021.5	1013.0
22.5°	1342.2	1329.8	1295.7	1281.3	1293.1	1289.8	1240.1	1179.9	1117.7	1072.6	1062.1
25°	1366.4	1354.6	1324.5	1329.8	1361.2	1371.0	1317.3	1247.3	1176.6	1123.6	1111.2
27.5°	1389.3	1374.3	1360.5	1389.3	1433.8	1452.1	1395.2	1316.0	1239.4	1185.1	1175.3
30°	1424.6	1407.0	1405.0	1446.9	1517.6	1533.3	1470.5	1391.3	1315.4	1260.4	1248.0
32.5°	1469.1	1452.8	1454.1	1516.9	1598.7	1611.8	1558.1	1484.2	1408.3	1353.3	1336.3
35°	1529.4	1509.1	1520.2	1597.4	1679.9	1704.1	1660.9	1599.4	1525.4	1469.1	1450.2
37.5°	1612.5	1583.0	1605.9	1687.1	1770.2	1806.2	1772.8	1727.0	1653.7	1596.8	1579.1
40°	1718.5	1694.3	1703.4	1793.1	1878.8	1922.0	1901.1	1855.9	1783.3	1723.7	1703.4
42.5°	1844.1	1819.9	1816.6	1912.2	1997.9	2063.3	2043.1	2001.8	1926.6	1858.5	1838.9
45°	1967.1	1944.9	1949.5	2047.0	2143.2	2214.5	2194.2	2145.8	2064.0	1985.5	1969.8
47.5°	2095.4	2077.1	2081.0	2184.4	2290.4	2361.8	2336.2	2277.3	2181.8	2098.0	2079.1
50°	2226.9	2206.0	2211.9	2320.5	2435.1	2502.5	2463.2	2376.2	2270.8	2189.0	2172.6
52.5°	2357.8	2333.0	2348.0	2450.8	2569.2	2622.9	2550.2	2444.9	2342.8	2261.6	2243.3
55°	2508.3	2482.2	2465.8	2575.7	2692.9	2715.1	2615.7	2492.6	2371.6	2279.3	2268.2
57.5°	2645.8	2623.5	2592.8	2702.7	2789.1	2772.7	2666.1	2479.6	2301.6	2183.1	2167.4
60°	2768.8	2749.8	2723.0	2816.6	2855.8	2819.2	2625.5	2324.5	2128.8	2005.1	1997.9
62.5°	2882.0	2861.7	2836.9	2916.7	2911.5	2826.4	2440.9	2086.3	1824.5	1691.6	1679.9
65°	2971.7	2953.3	2946.1	3009.0	3000.5	2685.7	2153.7	1696.2	1333.0	1183.2	1178.6
67.5°	2997.2	2990.0	3028.6	3135.3	3002.4	2403.0	1689.0	1124.9	715.9	573.9	565.4
70°	2901.6	2901.0	3011.6	3164.1	2730.2	1835.6	996.7	507.2	359.9	319.4	314.1
72.5°	2777.3	2775.3	2863.0	2729.5	2024.7	1004.5	419.5	271.6	225.1	214.0	214.0
75°	2573.1	2567.9	2634.0	2076.4	1138.7	378.2	222.5	186.5	176.7	174.7	174.7
77.5°	2097.4	2053.5	1949.5	1283.3	397.2	185.9	147.2	146.6	140.7	140.0	140.0
80°	689.7	689.7	801.6	489.5	175.4	114.5	104.1	109.3	103.4	99.5	98.8
82.5°	112.6	155.1	220.5	140.0	94.9	71.3	64.1	68.1	71.3	56.9	56.9
85°	44.5	58.2	85.1	65.4	43.8	28.8	30.8	34.0	30.1	26.2	25.5
87.5°	17.0	20.9	30.1	15.7	9.2	5.2	3.3	3.3	2.6	2.6	2.6
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)