

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: P632913

Luminaire Tested: GWS-SA2D-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632913
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-SA2D-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12126.6 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

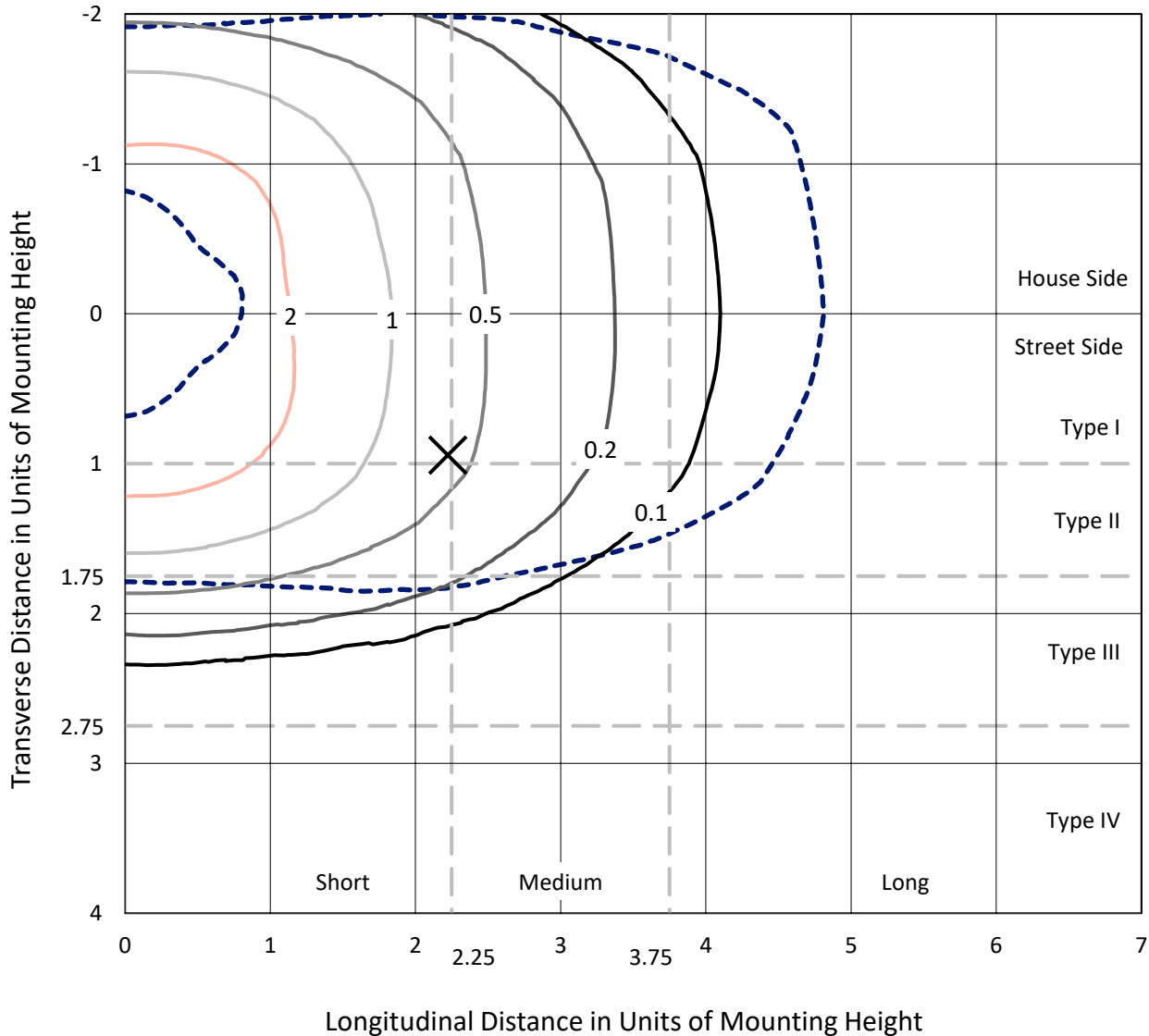
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

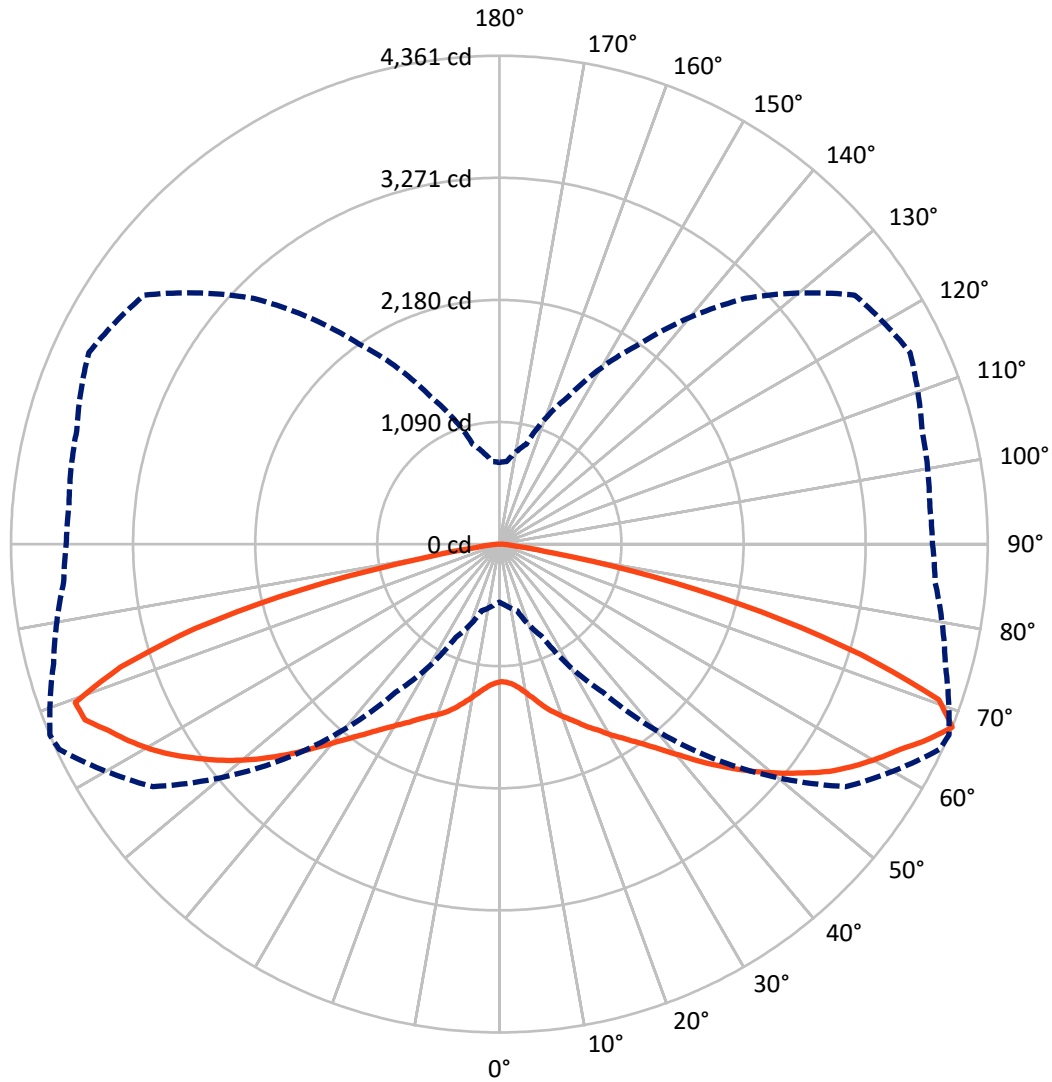
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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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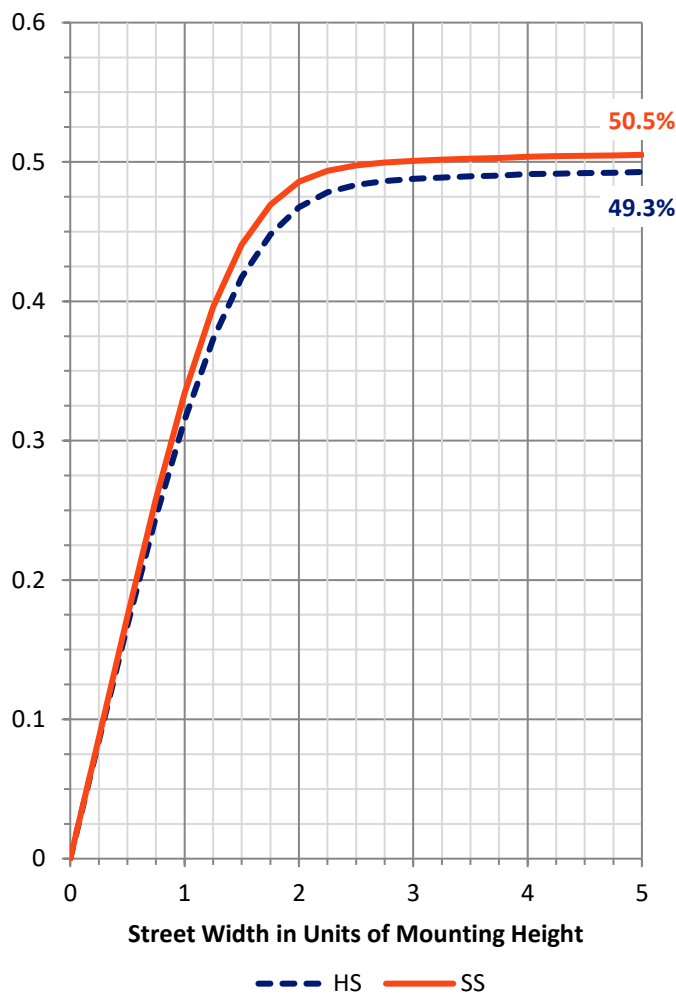
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5996.4	0.0	5996.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	6130.2	0.0	6130.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	12126.6	0.0	12126.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.0
10°-20°	407.0	3.4
20°-30°	798.5	6.6
30°-40°	1360.4	11.2
40°-50°	2184.6	18.0
50°-60°	2968.4	24.5
60°-70°	2839.4	23.4
70°-80°	1350.0	11.1
80°-90°	97.8	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°	12126.6	100.0
0°-180°	12126.6	100.0

Coefficient of Utilization



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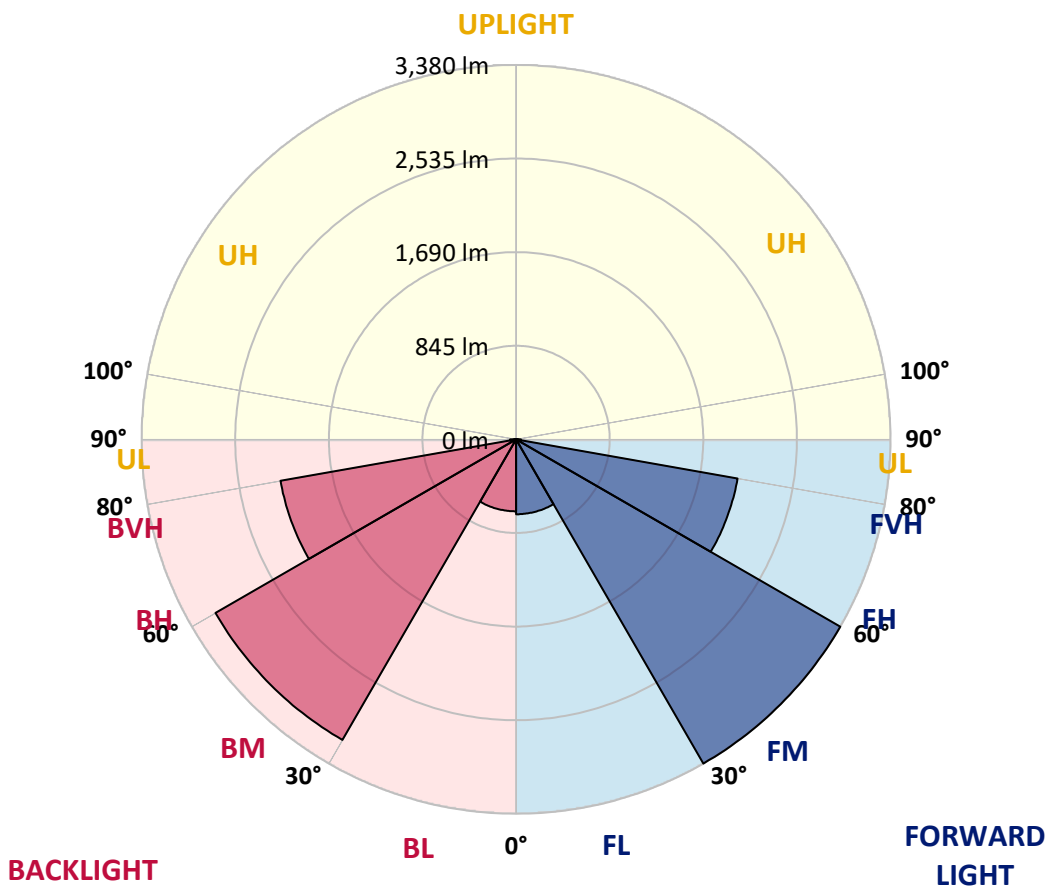
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.2	5.6			
FM (30°-60°)	3379.8	27.9			
FH (60°-80°)	2030.3	16.7			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	649.8	5.4	B2/1000		
BM (30°-60°)	3133.6	25.8	B3/5000		
BH (60°-80°)	2159.1	17.8	B3/2500		G3/2500
BVH (80°-90°)	53.9	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°	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9
2.5°	1202.6	1204.2	1206.8	1211.8	1216.9	1224.5	1232.1	1231.3	1234.6	1237.2	1239.7
5°	1195.8	1197.5	1201.7	1208.5	1216.1	1228.7	1244.8	1251.5	1256.6	1265.9	1274.3
7.5°	1210.2	1213.5	1219.4	1228.7	1240.6	1256.6	1278.6	1290.4	1298.0	1314.9	1329.2
10°	1229.6	1233.8	1245.6	1263.4	1281.1	1305.6	1333.4	1351.2	1356.2	1378.2	1405.2
12.5°	1248.2	1253.2	1272.6	1304.7	1336.8	1369.8	1402.7	1424.7	1426.3	1455.9	1486.3
15°	1277.7	1281.9	1308.1	1349.5	1398.5	1444.1	1484.6	1499.8	1506.6	1527.7	1565.7
17.5°	1342.7	1347.8	1381.6	1426.3	1477.9	1526.0	1566.5	1579.2	1579.2	1596.9	1628.2
20°	1412.8	1417.9	1462.7	1520.1	1582.6	1631.6	1662.8	1651.0	1646.8	1651.8	1673.8
22.5°	1491.4	1500.7	1543.7	1610.4	1687.3	1747.2	1763.3	1727.8	1716.0	1704.2	1709.2
25°	1591.9	1602.8	1645.1	1716.0	1791.2	1854.5	1863.8	1808.9	1802.1	1760.8	1745.6
27.5°	1707.6	1716.0	1768.4	1838.5	1908.5	1961.7	1971.9	1904.3	1881.5	1824.1	1788.6
30°	1857.0	1864.6	1910.2	1979.5	2040.3	2077.4	2090.1	1997.2	1979.5	1891.7	1836.8
32.5°	2020.0	2023.4	2069.8	2136.6	2190.6	2226.1	2208.3	2100.2	2074.1	1975.3	1900.1
35°	2206.6	2206.6	2266.6	2320.7	2363.7	2373.9	2340.1	2216.8	2186.4	2079.1	1985.4
37.5°	2389.9	2395.0	2450.7	2514.9	2552.9	2551.2	2489.6	2354.4	2319.8	2203.3	2099.4
40°	2588.4	2599.3	2655.1	2726.9	2763.2	2758.1	2663.5	2513.2	2477.7	2340.1	2238.7
42.5°	2770.8	2788.5	2853.5	2927.0	2966.7	2963.3	2864.5	2695.6	2661.0	2505.6	2404.3
45°	2916.0	2934.6	3015.7	3117.9	3181.2	3175.3	3075.6	2884.8	2842.5	2679.6	2568.1
47.5°	3043.5	3063.0	3153.3	3261.4	3361.9	3372.0	3280.8	3075.6	3030.9	2866.2	2740.4
50°	3141.5	3150.8	3252.1	3370.4	3486.9	3543.5	3464.1	3267.3	3213.3	3050.3	2908.4
52.5°	3133.9	3146.6	3271.5	3432.0	3588.2	3681.1	3626.2	3448.0	3395.7	3218.3	3079.8
55°	2979.4	2992.0	3140.7	3374.6	3644.8	3781.6	3775.7	3620.3	3582.3	3389.8	3258.0
57.5°	2753.9	2781.7	2929.5	3182.0	3570.5	3861.8	3885.5	3777.4	3737.7	3557.8	3434.5
60°	2350.2	2387.4	2558.0	2885.6	3332.4	3834.8	4002.9	3910.0	3885.5	3714.1	3594.1
62.5°	1707.6	1734.6	1961.7	2391.6	2979.4	3642.3	4101.7	4046.8	4028.2	3854.2	3738.5
65°	1022.7	1084.3	1266.7	1691.5	2403.4	3279.1	4047.6	4225.8	4206.4	3998.7	3861.8
67.5°	517.7	545.5	617.3	917.1	1616.4	2713.3	3776.6	4337.3	4360.9	4121.9	3905.8
70°	320.9	328.5	348.8	452.6	807.3	1782.7	3088.3	4046.8	4162.5	4102.5	3791.8
72.5°	257.6	259.3	262.6	282.1	387.6	833.5	1952.5	3169.4	3378.0	3831.4	3628.8
75°	213.7	214.5	215.3	221.3	241.5	340.3	950.0	2177.9	2422.0	3256.3	3364.4
77.5°	171.4	167.2	170.6	173.1	178.2	190.0	327.7	1162.0	1409.5	2137.4	2601.9
80°	111.5	109.8	116.5	119.1	124.1	131.7	174.8	394.4	478.8	777.8	827.6
82.5°	60.0	56.6	70.9	68.4	70.9	76.8	103.0	144.4	162.1	234.8	198.5
85°	18.6	18.6	19.4	22.8	27.9	27.0	44.8	70.9	78.5	100.5	74.3
87.5°	3.4	3.4	3.4	3.4	3.4	4.2	9.3	14.4	19.4	34.6	26.2
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°	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9	1227.9
2.5°	1244.8	1237.2	1241.4	1243.9	1243.1	1241.4	1233.0	1231.3	1227.0	1220.3	1218.6
5°	1281.9	1273.5	1274.3	1271.8	1263.4	1252.4	1233.8	1224.5	1216.9	1208.5	1207.6
7.5°	1340.2	1330.9	1328.4	1316.6	1292.9	1267.6	1238.0	1221.1	1208.5	1197.5	1195.8
10°	1414.5	1405.2	1396.8	1368.9	1330.1	1296.3	1257.4	1233.0	1214.4	1200.9	1198.3
12.5°	1497.3	1489.7	1468.6	1428.0	1381.6	1341.9	1302.2	1271.8	1244.8	1224.5	1222.0
15°	1589.3	1572.4	1540.3	1488.0	1444.1	1412.0	1363.8	1322.5	1279.4	1252.4	1246.5
17.5°	1653.5	1639.2	1601.1	1550.5	1515.9	1488.0	1431.4	1372.3	1314.0	1274.3	1265.9
20°	1699.1	1683.9	1640.8	1603.7	1592.7	1569.1	1503.2	1434.8	1367.2	1318.2	1307.3
22.5°	1732.0	1716.0	1672.1	1653.5	1668.7	1664.5	1600.3	1522.6	1442.4	1384.1	1370.6
25°	1763.3	1748.1	1709.2	1716.0	1756.5	1769.2	1700.0	1609.6	1518.4	1450.0	1433.9
27.5°	1792.8	1773.4	1755.7	1792.8	1850.3	1873.9	1800.4	1698.3	1599.5	1529.4	1516.7
30°	1838.5	1815.6	1813.1	1867.2	1958.4	1978.6	1897.6	1795.4	1697.4	1626.5	1610.4
32.5°	1895.9	1874.8	1876.5	1957.5	2063.1	2080.0	2010.7	1915.3	1817.3	1746.4	1724.4
35°	1973.6	1947.4	1961.7	2061.4	2167.8	2199.0	2143.3	2063.9	1968.5	1895.9	1871.4
37.5°	2080.8	2042.8	2072.4	2177.1	2284.3	2330.8	2287.7	2228.6	2134.0	2060.6	2037.8
40°	2217.6	2186.4	2198.2	2313.9	2424.5	2480.3	2453.2	2395.0	2301.2	2224.4	2198.2
42.5°	2379.8	2348.5	2344.3	2467.6	2578.2	2662.7	2636.5	2583.3	2486.2	2398.3	2373.0
45°	2538.5	2509.8	2515.7	2641.6	2765.7	2857.7	2831.6	2769.1	2663.5	2562.2	2541.9
47.5°	2704.1	2680.4	2685.5	2818.9	2955.7	3047.8	3014.8	2938.8	2815.5	2707.4	2682.9
50°	2873.8	2846.8	2854.4	2994.6	3142.3	3229.3	3178.7	3066.3	2930.4	2824.8	2803.7
52.5°	3042.7	3010.6	3030.0	3162.6	3315.5	3384.7	3291.0	3155.0	3023.3	2918.6	2894.9
55°	3236.9	3203.1	3182.0	3323.9	3475.1	3503.8	3375.4	3216.7	3060.4	2941.4	2927.0
57.5°	3414.3	3385.6	3345.9	3487.7	3599.2	3578.1	3440.4	3199.8	2970.1	2817.2	2796.9
60°	3573.0	3548.5	3513.9	3634.7	3685.3	3638.1	3388.1	2999.6	2747.1	2587.5	2578.2
62.5°	3719.1	3692.9	3660.9	3763.9	3757.1	3647.3	3149.9	2692.2	2354.4	2183.0	2167.8
65°	3834.8	3811.2	3801.9	3883.0	3872.0	3465.8	2779.2	2188.9	1720.2	1526.8	1520.9
67.5°	3867.8	3858.5	3908.3	4045.9	3874.5	3101.0	2179.6	1451.7	923.9	740.6	729.6
70°	3744.5	3743.6	3886.3	4083.1	3523.2	2368.8	1286.2	654.5	464.5	412.1	405.4
72.5°	3584.0	3581.5	3694.6	3522.4	2612.8	1296.3	541.3	350.5	290.5	276.1	276.1
75°	3320.5	3313.8	3399.1	2679.6	1469.4	488.1	287.1	240.7	228.0	225.5	225.5
77.5°	2706.6	2650.0	2515.7	1656.0	512.6	239.8	190.0	189.2	181.6	180.7	180.7
80°	890.1	890.1	1034.5	631.7	226.3	147.8	134.3	141.0	133.4	128.4	127.5
82.5°	145.3	200.1	284.6	180.7	122.5	92.0	82.8	87.8	92.0	73.5	73.5
85°	57.4	75.2	109.8	84.4	56.6	37.2	39.7	43.9	38.8	33.8	32.9
87.5°	22.0	27.0	38.8	20.3	11.8	6.8	4.2	4.2	3.4	3.4	3.4
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)