

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: P632693

Luminaire Tested: GWS-SA2D-730-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632693  
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-730-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

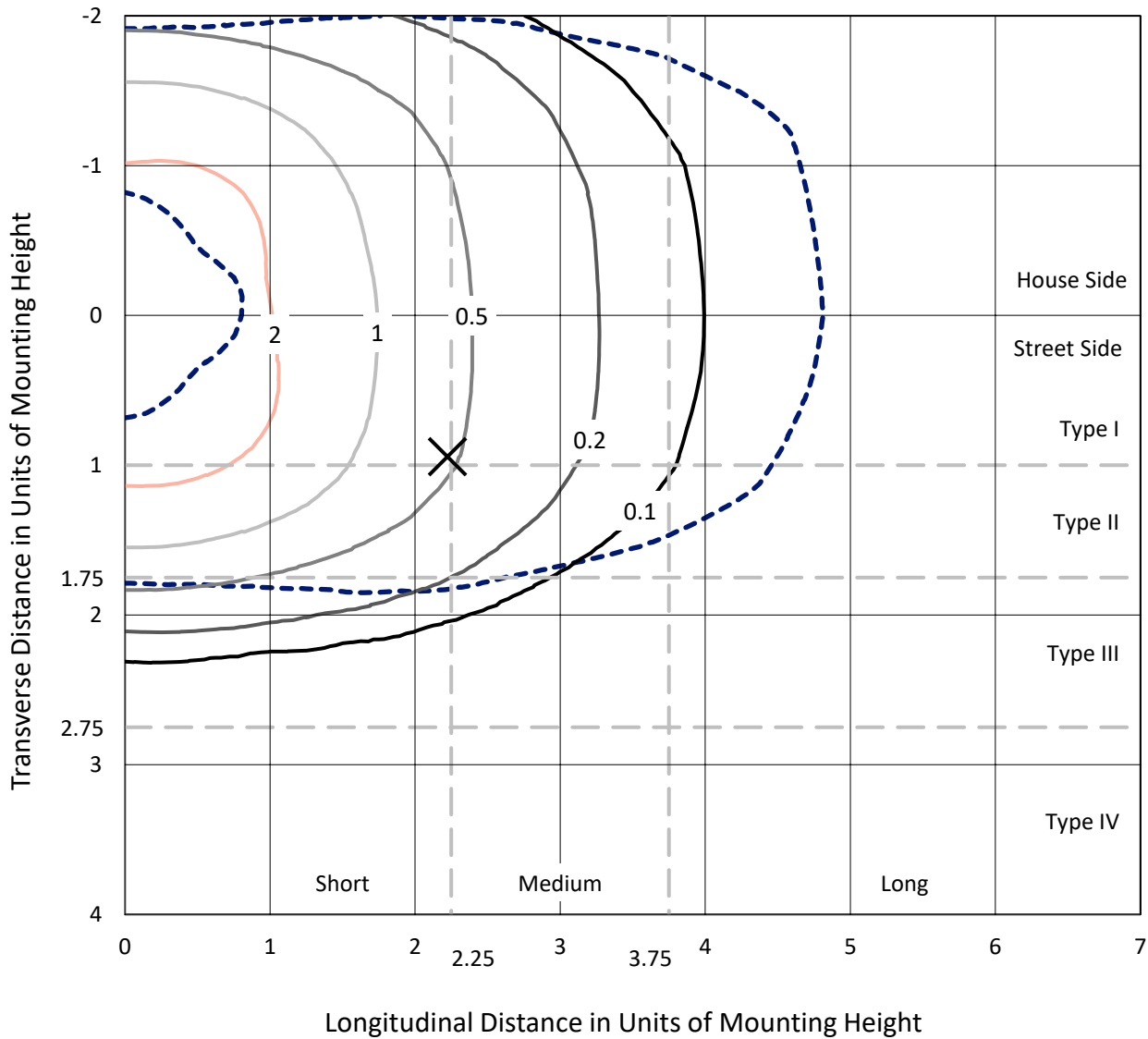
Lumens per Lamp: N/A  
Luminaire Lumens: 10945.3 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

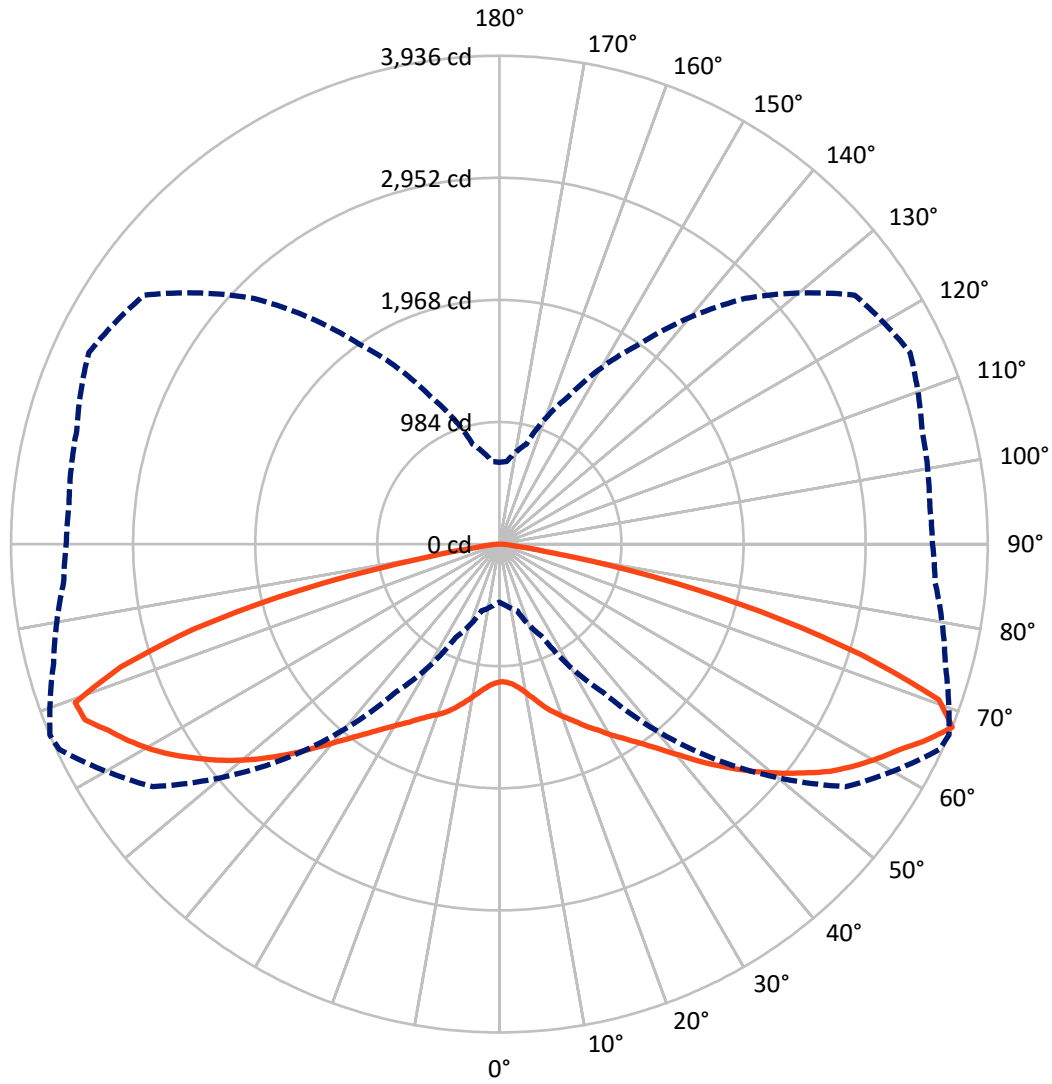
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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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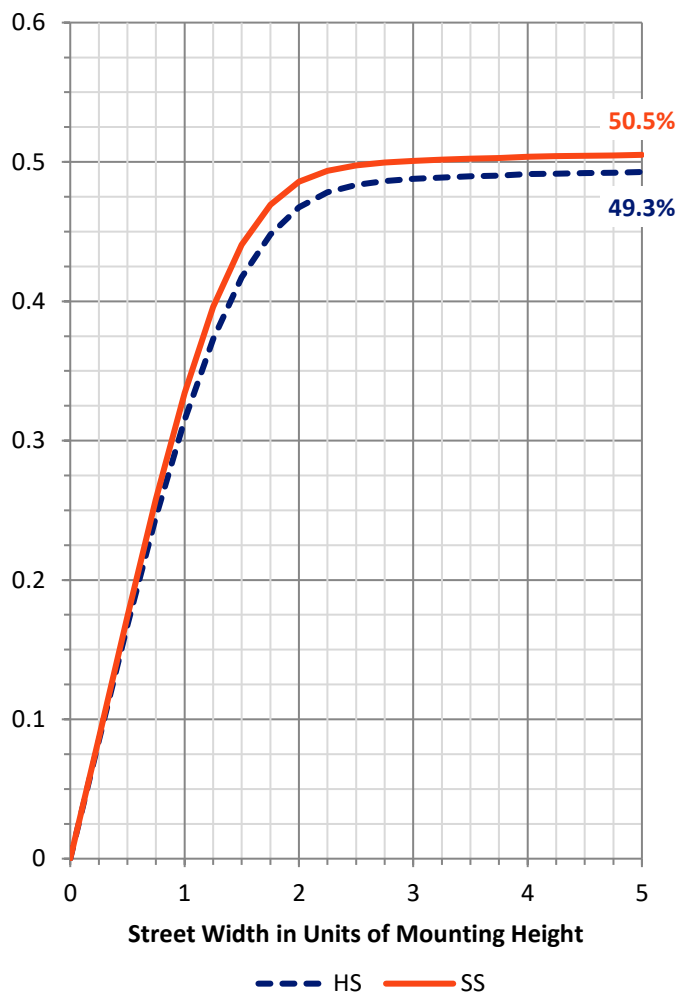
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5412.3	0.0	5412.3
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	5533.0	0.0	5533.0
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	10945.3	0.0	10945.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.7	1.0
10°-20°	367.4	3.4
20°-30°	720.7	6.6
30°-40°	1227.9	11.2
40°-50°	1971.8	18.0
50°-60°	2679.2	24.5
60°-70°	2562.8	23.4
70°-80°	1218.5	11.1
80°-90°	88.3	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°	10945.3	100.0
0°-180°	10945.3	100.0

**Coefficient of Utilization**



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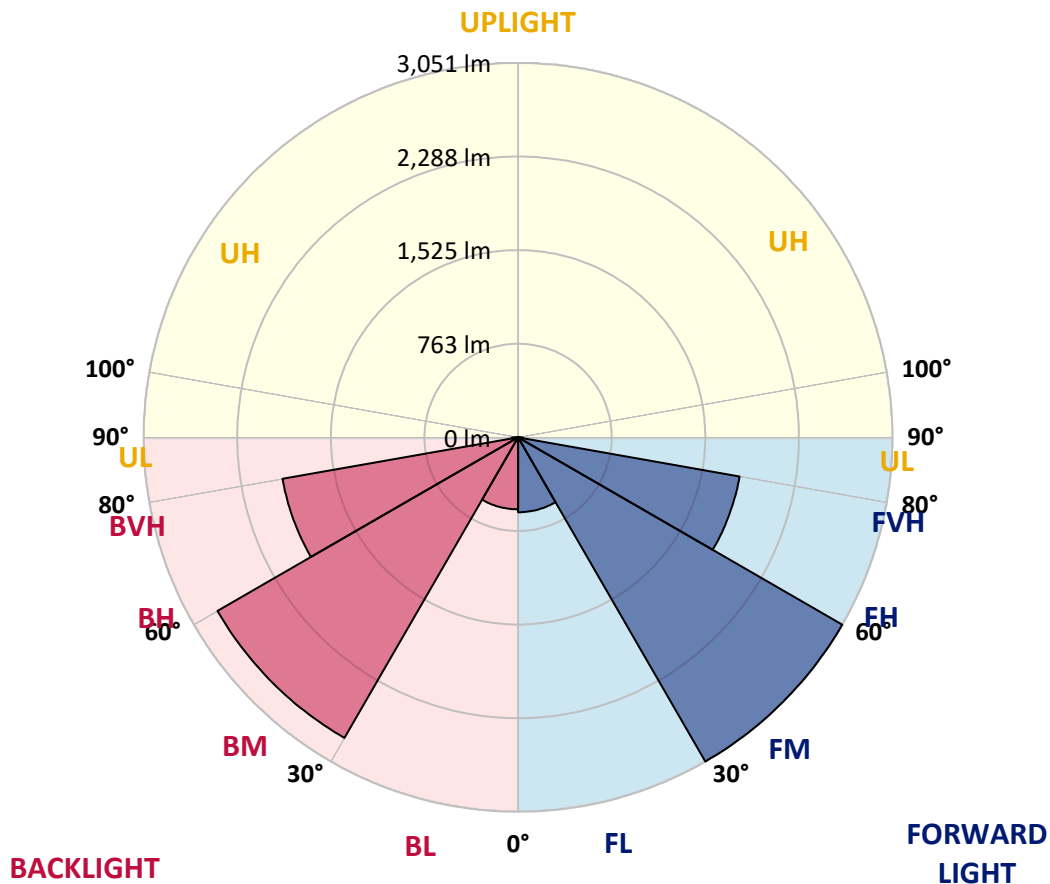
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.3	5.6			
FM (30°-60°)	3050.5	27.9			
FH (60°-80°)	1832.5	16.7			G2/5000
FVH (80°-90°)	39.7	0.4			G1/100
BL (0°-30°)	586.5	5.4	B2/1000		
BM (30°-60°)	2828.3	25.8	B3/5000		
BH (60°-80°)	1948.8	17.8	B3/2500		G3/2500
BVH (80°-90°)	48.6	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°	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3
2.5°	1085.4	1086.9	1089.2	1093.8	1098.4	1105.2	1112.1	1111.3	1114.4	1116.7	1118.9
5°	1079.3	1080.8	1084.6	1090.7	1097.6	1109.0	1123.5	1129.6	1134.2	1142.6	1150.2
7.5°	1092.3	1095.3	1100.7	1109.0	1119.7	1134.2	1154.0	1164.7	1171.5	1186.8	1199.7
10°	1109.8	1113.6	1124.3	1140.3	1156.3	1178.4	1203.6	1219.6	1224.1	1243.9	1268.3
12.5°	1126.6	1131.1	1148.7	1177.6	1206.6	1236.3	1266.1	1285.9	1287.4	1314.1	1341.5
15°	1153.2	1157.1	1180.7	1218.0	1262.2	1303.4	1340.0	1353.7	1359.8	1378.9	1413.2
17.5°	1211.9	1216.5	1247.0	1287.4	1333.9	1377.3	1413.9	1425.4	1425.4	1441.4	1469.6
20°	1275.2	1279.8	1320.2	1372.0	1428.4	1472.6	1500.8	1490.1	1486.3	1490.9	1510.7
22.5°	1346.1	1354.5	1393.3	1453.6	1522.9	1577.0	1591.5	1559.5	1548.8	1538.2	1542.7
25°	1436.8	1446.7	1484.8	1548.8	1616.7	1673.8	1682.2	1632.7	1626.6	1589.2	1575.5
27.5°	1541.2	1548.8	1596.1	1659.4	1722.6	1770.6	1779.8	1718.8	1698.2	1646.4	1614.4
30°	1676.1	1683.0	1724.1	1786.7	1841.5	1875.1	1886.5	1802.7	1786.7	1707.4	1657.8
32.5°	1823.2	1826.3	1868.2	1928.4	1977.2	2009.2	1993.2	1895.6	1872.0	1782.8	1715.0
35°	1991.7	1991.7	2045.8	2094.6	2133.5	2142.6	2112.1	2000.8	1973.4	1876.6	1792.0
37.5°	2157.1	2161.7	2212.0	2269.9	2304.2	2302.7	2247.0	2125.1	2093.8	1988.6	1894.9
40°	2336.2	2346.1	2396.4	2461.2	2494.0	2489.4	2404.1	2268.4	2236.4	2112.1	2020.7
42.5°	2500.9	2516.9	2575.6	2641.9	2677.7	2674.6	2585.5	2433.0	2401.8	2261.5	2170.0
45°	2632.0	2648.7	2721.9	2814.1	2871.3	2866.0	2776.0	2603.8	2565.6	2418.5	2317.9
47.5°	2747.1	2764.6	2846.1	2943.7	3034.4	3043.6	2961.2	2776.0	2735.6	2587.0	2473.4
50°	2835.5	2843.9	2935.3	3042.0	3147.2	3198.3	3126.6	2949.0	2900.3	2753.2	2625.1
52.5°	2828.6	2840.0	2952.9	3097.7	3238.7	3322.5	3273.0	3112.2	3064.9	2904.8	2779.8
55°	2689.1	2700.6	2834.7	3045.8	3289.8	3413.2	3407.9	3267.7	3233.4	3059.6	2940.7
57.5°	2485.6	2510.8	2644.2	2872.1	3222.7	3485.6	3507.0	3409.4	3373.6	3211.2	3100.0
60°	2121.3	2154.8	2308.8	2604.5	3007.7	3461.3	3612.9	3529.1	3507.0	3352.3	3244.0
62.5°	1541.2	1565.6	1770.6	2158.6	2689.1	3287.5	3702.1	3652.6	3635.8	3478.8	3374.4
65°	923.1	978.7	1143.3	1526.7	2169.3	2959.7	3653.3	3814.2	3796.6	3609.1	3485.6
67.5°	467.2	492.4	557.2	827.8	1458.9	2449.0	3408.7	3914.8	3936.1	3720.4	3525.3
70°	289.6	296.5	314.8	408.6	728.7	1609.1	2787.5	3652.6	3757.0	3702.9	3422.4
72.5°	232.5	234.0	237.1	254.6	349.9	752.3	1762.3	2860.6	3048.9	3458.2	3275.3
75°	192.8	193.6	194.4	199.7	218.0	307.2	857.5	1965.8	2186.1	2939.1	3036.7
77.5°	154.7	150.9	154.0	156.3	160.8	171.5	295.7	1048.8	1272.2	1929.2	2348.4
80°	100.6	99.1	105.2	107.5	112.0	118.9	157.8	356.0	432.2	702.0	747.0
82.5°	54.1	51.1	64.0	61.7	64.0	69.4	93.0	130.3	146.3	211.9	179.1
85°	16.8	16.8	17.5	20.6	25.2	24.4	40.4	64.0	70.9	90.7	67.1
87.5°	3.0	3.0	3.0	3.0	3.0	3.8	8.4	13.0	17.5	31.3	23.6
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°	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3	1108.3
2.5°	1123.5	1116.7	1120.5	1122.8	1122.0	1120.5	1112.8	1111.3	1107.5	1101.4	1099.9
5°	1157.1	1149.4	1150.2	1147.9	1140.3	1130.4	1113.6	1105.2	1098.4	1090.7	1090.0
7.5°	1209.6	1201.3	1199.0	1188.3	1167.0	1144.1	1117.4	1102.2	1090.7	1080.8	1079.3
10°	1276.7	1268.3	1260.7	1235.6	1200.5	1170.0	1135.0	1112.8	1096.1	1083.9	1081.6
12.5°	1351.4	1344.6	1325.5	1288.9	1247.0	1211.2	1175.3	1147.9	1123.5	1105.2	1102.9
15°	1434.5	1419.3	1390.3	1343.0	1303.4	1274.4	1231.0	1193.6	1154.8	1130.4	1125.0
17.5°	1492.4	1479.5	1445.2	1399.4	1368.2	1343.0	1292.0	1238.6	1186.0	1150.2	1142.6
20°	1533.6	1519.9	1481.0	1447.5	1437.6	1416.2	1356.8	1295.0	1234.0	1189.8	1179.9
22.5°	1563.3	1548.8	1509.2	1492.4	1506.2	1502.3	1444.4	1374.3	1301.9	1249.3	1237.1
25°	1591.5	1577.8	1542.7	1548.8	1585.4	1596.9	1534.4	1452.8	1370.5	1308.7	1294.3
27.5°	1618.2	1600.7	1584.7	1618.2	1670.0	1691.4	1625.1	1532.8	1443.7	1380.4	1369.0
30°	1659.4	1638.8	1636.5	1685.3	1767.6	1785.9	1712.7	1620.5	1532.1	1468.0	1453.6
32.5°	1711.2	1692.1	1693.7	1766.8	1862.1	1877.4	1814.9	1728.7	1640.3	1576.3	1556.5
35°	1781.3	1757.7	1770.6	1860.6	1956.6	1984.8	1934.5	1862.9	1776.7	1711.2	1689.1
37.5°	1878.1	1843.8	1870.5	1965.0	2061.8	2103.7	2064.9	2011.5	1926.1	1859.8	1839.2
40°	2001.6	1973.4	1984.1	2088.5	2188.3	2238.6	2214.3	2161.7	2077.1	2007.7	1984.1
42.5°	2147.9	2119.7	2115.9	2227.2	2327.1	2403.3	2379.7	2331.6	2244.0	2164.7	2141.8
45°	2291.2	2265.3	2270.7	2384.2	2496.3	2579.4	2555.7	2499.3	2404.1	2312.6	2294.3
47.5°	2440.6	2419.3	2423.9	2544.3	2667.8	2750.9	2721.1	2652.5	2541.3	2443.7	2421.6
50°	2593.8	2569.5	2576.3	2702.8	2836.2	2914.7	2869.0	2767.6	2644.9	2549.6	2530.6
52.5°	2746.3	2717.3	2734.9	2854.5	2992.5	3055.0	2970.4	2847.7	2728.8	2634.2	2612.9
55°	2921.6	2891.1	2872.1	3000.1	3136.5	3162.5	3046.6	2903.3	2762.3	2654.8	2641.9
57.5°	3081.7	3055.8	3019.9	3148.0	3248.6	3229.5	3105.3	2888.1	2680.7	2542.8	2524.5
60°	3225.0	3202.9	3171.6	3280.6	3326.3	3283.7	3058.0	2707.4	2479.5	2335.5	2327.1
62.5°	3356.8	3333.2	3304.2	3397.2	3391.1	3292.0	2843.1	2430.0	2125.1	1970.3	1956.6
65°	3461.3	3439.9	3431.5	3504.7	3494.8	3128.2	2508.5	1975.7	1552.6	1378.1	1372.8
67.5°	3491.0	3482.6	3527.6	3651.8	3497.1	2798.9	1967.3	1310.3	833.9	668.5	658.6
70°	3379.7	3378.9	3507.8	3685.3	3180.0	2138.0	1160.9	590.7	419.2	372.0	365.9
72.5°	3234.9	3232.6	3334.7	3179.2	2358.3	1170.0	488.6	316.3	262.2	249.2	249.2
75°	2997.1	2991.0	3067.9	2418.5	1326.3	440.6	259.2	217.2	205.8	203.5	203.5
77.5°	2442.9	2391.9	2270.7	1494.7	462.7	216.5	171.5	170.7	163.9	163.1	163.1
80°	803.4	803.4	933.7	570.1	204.3	133.4	121.2	127.3	120.4	115.9	115.1
82.5°	131.1	180.6	256.9	163.1	110.5	83.1	74.7	79.3	83.1	66.3	66.3
85°	51.8	67.8	99.1	76.2	51.1	33.5	35.8	39.6	35.1	30.5	29.7
87.5°	19.8	24.4	35.1	18.3	10.7	6.1	3.8	3.8	3.0	3.0	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)