

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: P633021

Luminaire Tested: GWS-SA2D-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6011.6 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

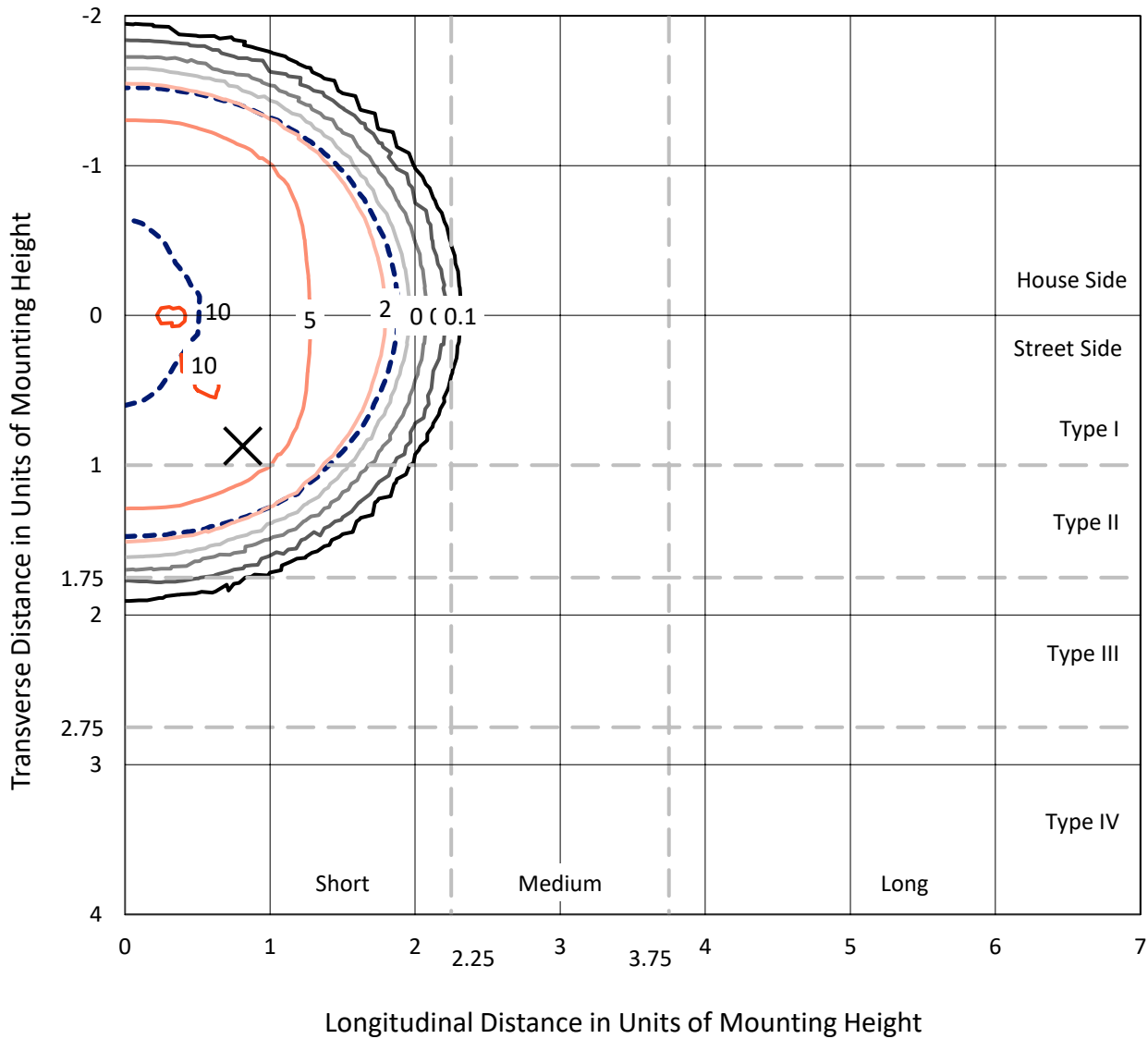
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633021
 CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

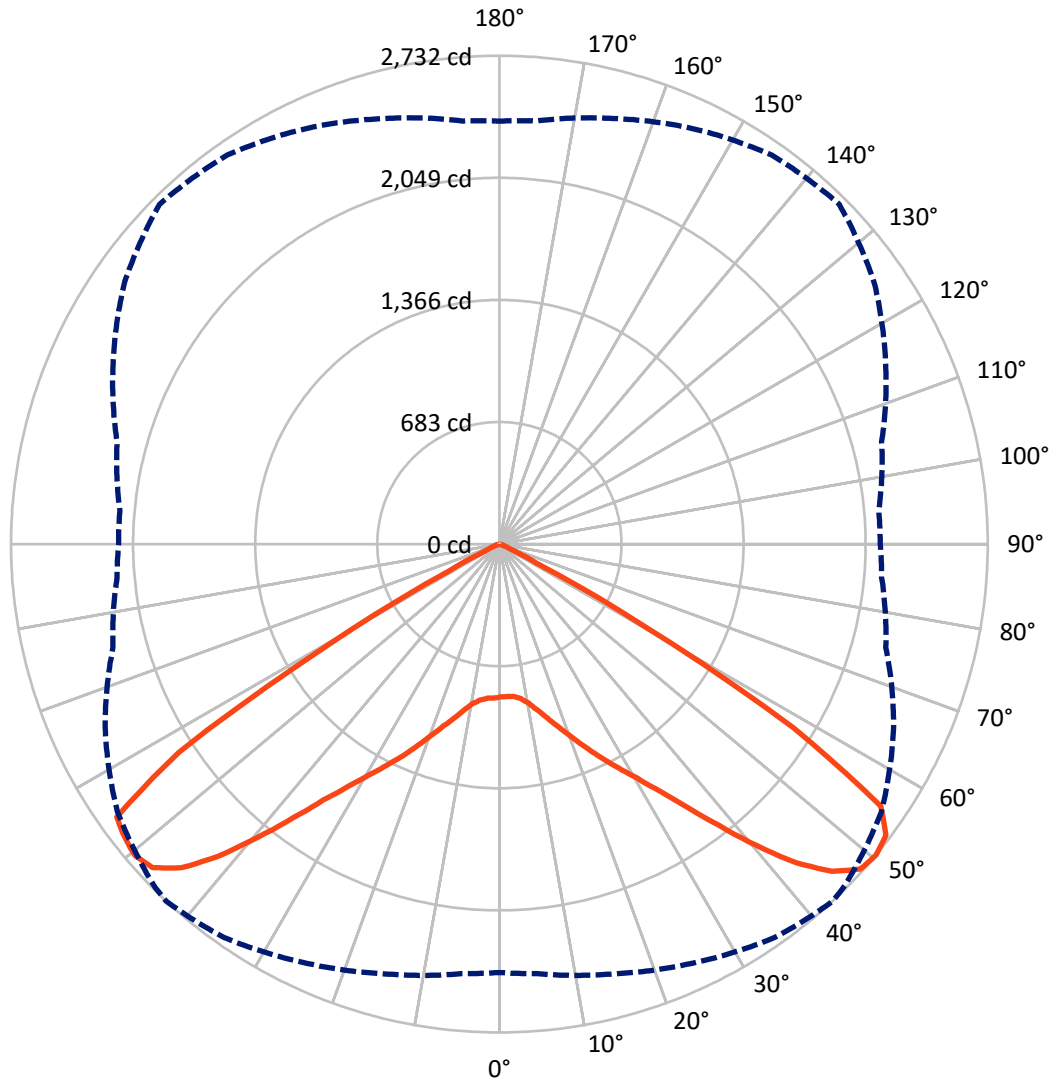
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - N/A

REPORT NUMBER: P633021
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P633021
 CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

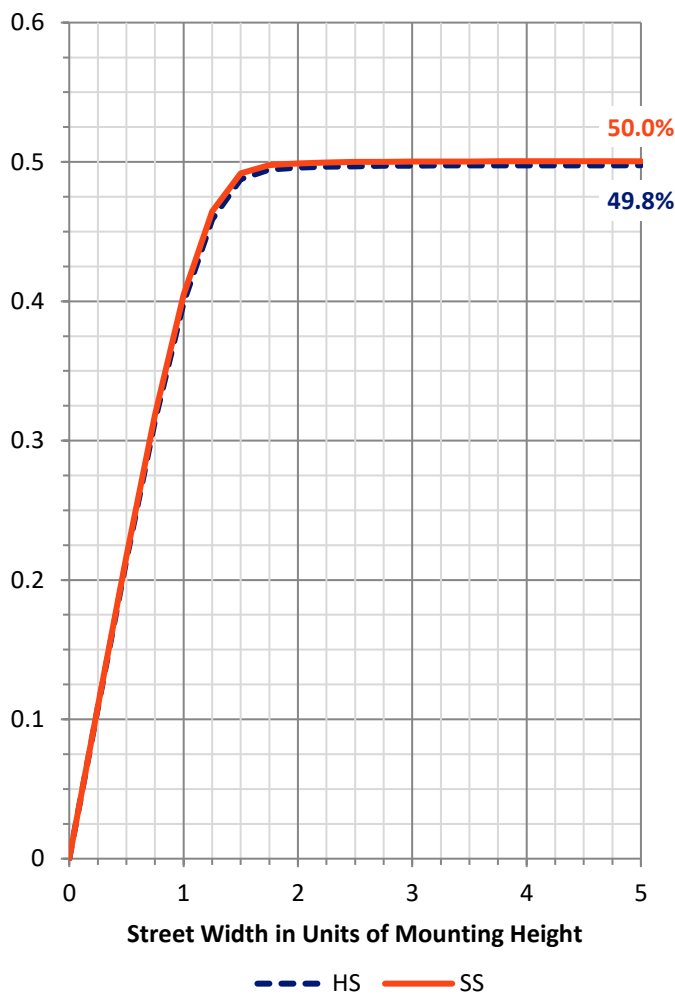
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3005.7	0.0	3005.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3005.9	0.0	3005.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6011.6	0.0	6011.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.4
10°-20°	289.8	4.8
20°-30°	586.2	9.8
30°-40°	1087.7	18.1
40°-50°	1805.5	30.0
50°-60°	1842.6	30.7
60°-70°	302.2	5.0
70°-80°	13.2	0.2
80°-90°	0.2	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°	6011.6	100.0
0°-180°	6011.6	100.0

Coefficient of Utilization



REPORT NUMBER: P633021

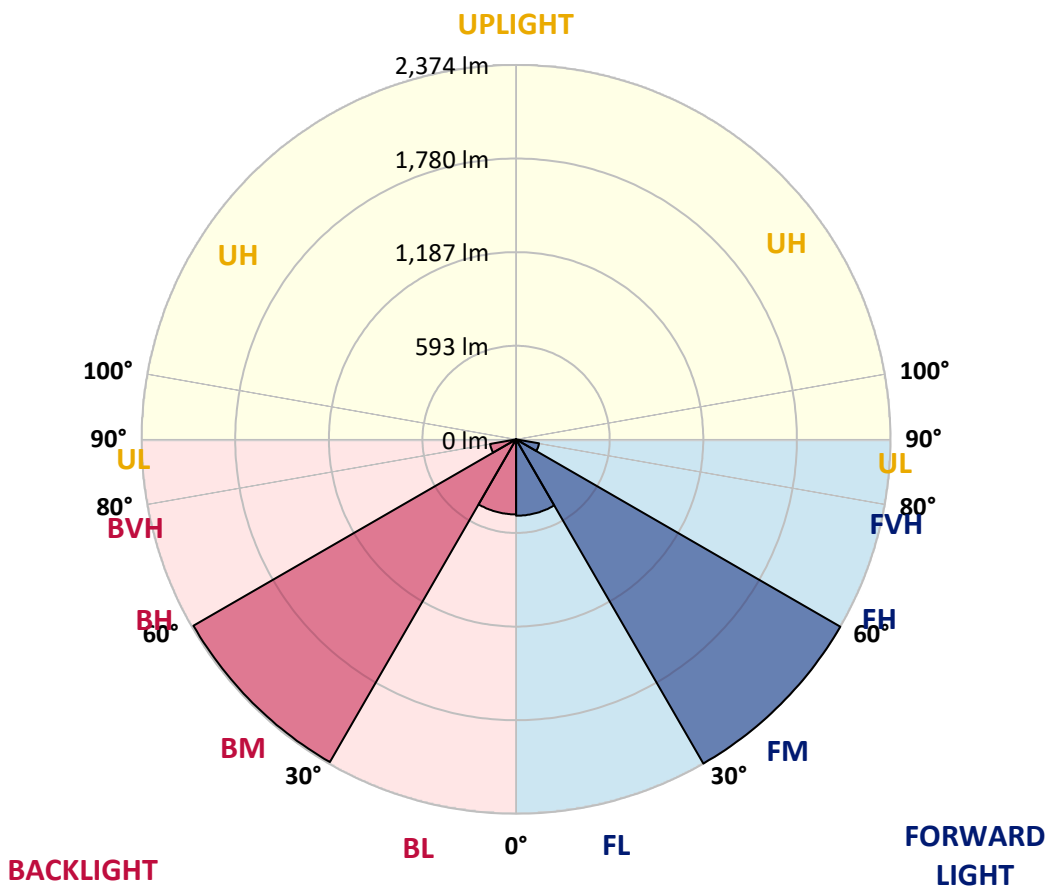
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.3	8.1			
FM (30°-60°)	2373.7	39.5			
FH (60°-80°)	147.8	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	475.9	7.9	B1/500		
BM (30°-60°)	2362.1	39.3	B2/2500		
BH (60°-80°)	167.6	2.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





REPORT NUMBER: P633021

CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1
2.5°	839.1	841.1	843.8	846.4	849.7	853.1	855.1	861.0	859.7	865.0	865.0
5°	829.8	831.8	835.1	841.1	848.4	855.7	861.0	873.0	879.7	890.3	894.3
7.5°	834.4	837.1	841.1	850.4	861.7	873.0	879.0	898.3	911.6	931.5	942.8
10°	849.7	852.4	859.0	875.0	889.6	905.6	912.9	937.5	958.8	986.0	1002.0
12.5°	867.0	870.3	883.6	907.6	932.8	954.1	964.1	991.4	1013.3	1043.9	1069.2
15°	885.0	890.3	910.9	946.1	982.0	1010.6	1021.3	1050.5	1072.5	1105.1	1133.6
17.5°	926.9	932.8	956.1	994.0	1043.2	1076.5	1085.8	1116.4	1133.0	1154.9	1184.8
20°	979.4	990.7	1019.3	1065.2	1119.0	1150.9	1157.6	1187.5	1186.2	1195.5	1221.4
22.5°	1044.6	1052.5	1083.8	1138.3	1198.8	1234.0	1249.3	1262.0	1245.3	1237.4	1254.0
25°	1112.4	1121.7	1155.6	1215.4	1283.2	1323.8	1336.4	1346.4	1319.8	1289.9	1291.9
27.5°	1200.1	1206.8	1240.0	1303.9	1371.7	1417.6	1428.9	1446.1	1410.9	1363.0	1349.7
30°	1304.5	1311.2	1346.4	1413.6	1480.7	1520.0	1537.2	1558.5	1520.0	1460.1	1444.8
32.5°	1426.9	1433.5	1478.7	1547.9	1603.1	1645.6	1662.2	1684.8	1654.3	1587.1	1569.8
35°	1573.1	1577.1	1630.3	1705.5	1764.0	1805.2	1816.5	1843.1	1809.2	1742.0	1732.7
37.5°	1742.7	1747.3	1805.2	1892.3	1952.1	1998.0	2016.0	2023.3	1982.1	1906.9	1899.6
40°	1928.9	1944.2	2000.7	2094.4	2161.6	2219.4	2235.4	2210.8	2152.9	2050.5	2037.2
42.5°	2123.0	2136.3	2199.5	2301.2	2379.0	2438.2	2438.8	2385.6	2287.2	2145.6	2125.7
45°	2284.6	2289.9	2371.7	2474.1	2569.8	2611.7	2615.7	2519.3	2371.0	2200.8	2158.2
47.5°	2395.6	2404.3	2475.4	2573.8	2679.5	2717.4	2709.4	2589.1	2410.9	2236.7	2166.2
50°	2396.9	2411.6	2488.7	2583.8	2686.2	2732.1	2720.8	2609.0	2433.5	2238.0	2146.9
52.5°	2184.8	2208.8	2334.4	2472.1	2629.0	2707.5	2710.1	2635.0	2424.9	2216.8	2129.7
55°	1648.3	1674.2	1832.5	2067.2	2370.4	2589.1	2627.0	2604.4	2414.9	2226.1	2160.2
57.5°	872.3	852.4	940.2	1172.9	1553.9	1940.8	2051.9	2232.7	2303.9	2237.4	2216.8
60°	190.2	202.8	269.9	363.7	606.4	912.9	1021.3	1331.1	1699.5	1863.0	1981.4
62.5°	81.8	80.5	83.8	95.1	139.0	231.4	282.6	461.4	728.1	1000.0	1184.2
65°	67.2	67.8	70.5	70.5	65.8	66.5	69.8	105.7	170.2	238.7	320.5
67.5°	50.5	51.2	55.9	57.2	53.9	47.9	47.2	39.9	41.9	52.5	54.5
70°	31.9	31.9	34.6	35.9	35.9	33.2	32.6	28.6	27.9	31.9	35.9
72.5°	17.3	17.3	18.6	19.3	18.6	18.0	18.0	17.3	16.6	19.3	24.6
75°	7.3	7.3	8.0	8.0	7.3	7.3	7.3	7.3	7.3	8.6	13.3
77.5°	1.3	2.0	2.7	2.0	1.3	1.3	1.3	2.0	2.0	2.7	4.0
80°	0.7	0.7	1.3	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P633021

CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1
2.5°	869.7	862.4	865.0	866.4	864.4	863.0	855.7	853.7	850.4	845.1	843.8
5°	898.9	893.0	892.3	888.3	879.0	867.7	853.7	847.7	841.1	834.4	833.1
7.5°	948.1	940.8	936.2	922.9	901.6	883.6	860.4	847.7	839.1	830.5	828.5
10°	1011.3	1002.7	989.4	964.8	936.2	910.2	883.0	866.4	853.1	841.1	840.4
12.5°	1078.5	1069.2	1045.2	1014.0	979.4	955.5	920.9	897.6	877.7	859.7	857.7
15°	1148.9	1137.6	1105.1	1067.8	1035.9	1011.3	973.4	936.2	905.6	879.7	877.0
17.5°	1202.8	1188.8	1150.3	1122.3	1096.4	1071.1	1028.6	979.4	938.8	907.6	900.3
20°	1236.7	1223.4	1186.8	1171.5	1159.6	1141.6	1091.1	1039.9	994.7	956.1	949.5
22.5°	1269.3	1253.3	1221.4	1221.4	1230.7	1223.4	1168.9	1110.4	1057.2	1012.6	1002.7
25°	1305.9	1293.2	1270.6	1289.2	1312.5	1311.8	1256.0	1182.8	1121.7	1071.8	1061.8
27.5°	1359.0	1346.4	1338.4	1373.7	1402.9	1400.9	1339.8	1260.6	1196.1	1146.9	1137.6
30°	1452.8	1440.8	1432.2	1474.7	1512.0	1498.0	1430.9	1354.4	1289.2	1233.4	1226.7
32.5°	1577.8	1565.2	1553.9	1596.4	1629.7	1611.7	1547.9	1476.1	1400.9	1346.4	1333.1
35°	1742.0	1715.4	1704.1	1754.7	1768.6	1748.7	1687.5	1624.3	1544.6	1482.1	1473.4
37.5°	1911.6	1880.3	1872.3	1916.2	1938.8	1931.5	1859.7	1793.9	1707.5	1638.3	1628.3
40°	2056.5	2027.9	2014.0	2082.5	2133.6	2138.3	2073.8	1993.4	1891.6	1819.8	1801.9
42.5°	2141.6	2117.0	2113.7	2220.1	2303.9	2363.7	2286.6	2203.5	2096.4	2015.3	2000.7
45°	2160.9	2145.0	2172.9	2312.5	2442.8	2551.9	2486.0	2398.3	2282.6	2196.8	2182.9
47.5°	2158.9	2153.6	2203.5	2360.4	2525.3	2659.6	2627.0	2527.9	2416.2	2326.5	2313.2
50°	2130.3	2131.0	2214.1	2384.3	2558.5	2688.8	2656.3	2564.5	2464.8	2376.3	2365.7
52.5°	2119.0	2115.0	2194.2	2377.0	2592.4	2675.5	2602.4	2499.3	2388.3	2279.3	2263.3
55°	2158.9	2148.9	2196.8	2371.0	2596.4	2668.2	2475.4	2252.0	2024.6	1895.6	1885.0
57.5°	2218.8	2208.1	2230.7	2327.1	2388.3	2218.8	1821.8	1461.4	1227.4	1128.3	1085.1
60°	1981.4	1974.1	1956.8	1840.4	1578.5	1190.8	811.2	517.3	371.7	300.5	300.5
62.5°	1229.4	1219.4	1125.7	836.4	607.7	351.7	193.5	121.0	91.8	85.8	85.1
65°	345.1	343.1	283.9	200.8	127.7	79.1	69.8	71.1	69.8	67.8	67.2
67.5°	51.9	57.2	57.2	46.5	44.5	49.9	58.5	62.5	59.2	55.9	54.5
70°	33.2	35.9	34.6	29.9	31.9	37.2	41.9	42.6	40.6	37.2	36.6
72.5°	23.3	25.9	21.3	19.3	19.9	21.9	23.9	23.9	23.3	21.9	20.6
75°	14.0	14.0	10.0	9.3	9.3	10.0	10.0	11.3	11.3	10.6	10.0
77.5°	4.7	5.3	3.3	2.7	2.7	2.7	3.3	4.0	4.0	3.3	2.7
80°	0.7	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	0.7
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)