

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: P631620

Luminaire Tested: GWS-SA2B-722-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5183.4 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
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

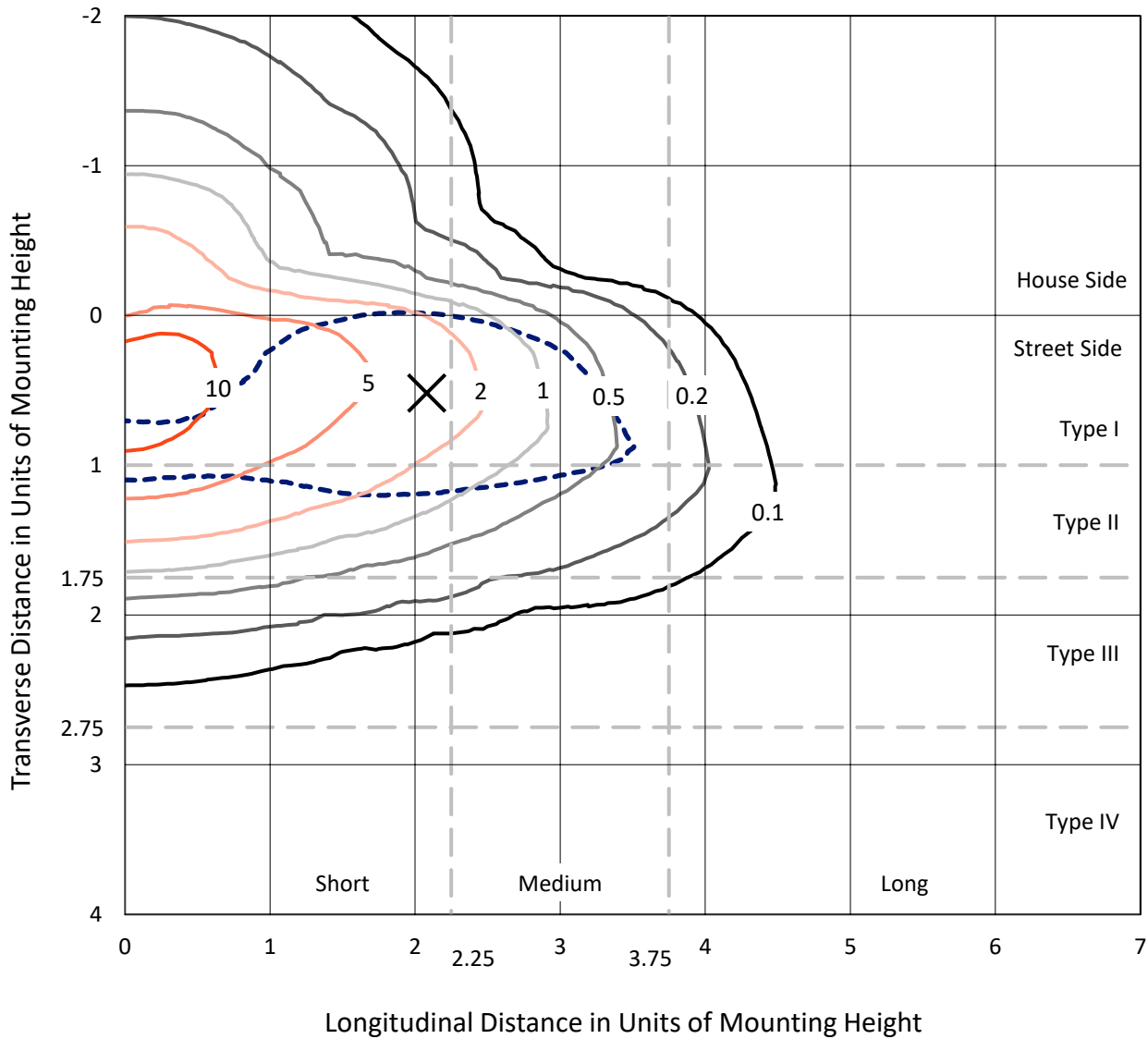


REPORT NUMBER: P631620

CATALOG NUMBER: GWS-SA2B-722-U-T2R-W

### Iso-Footcandle Lines of Horizontal Illumination

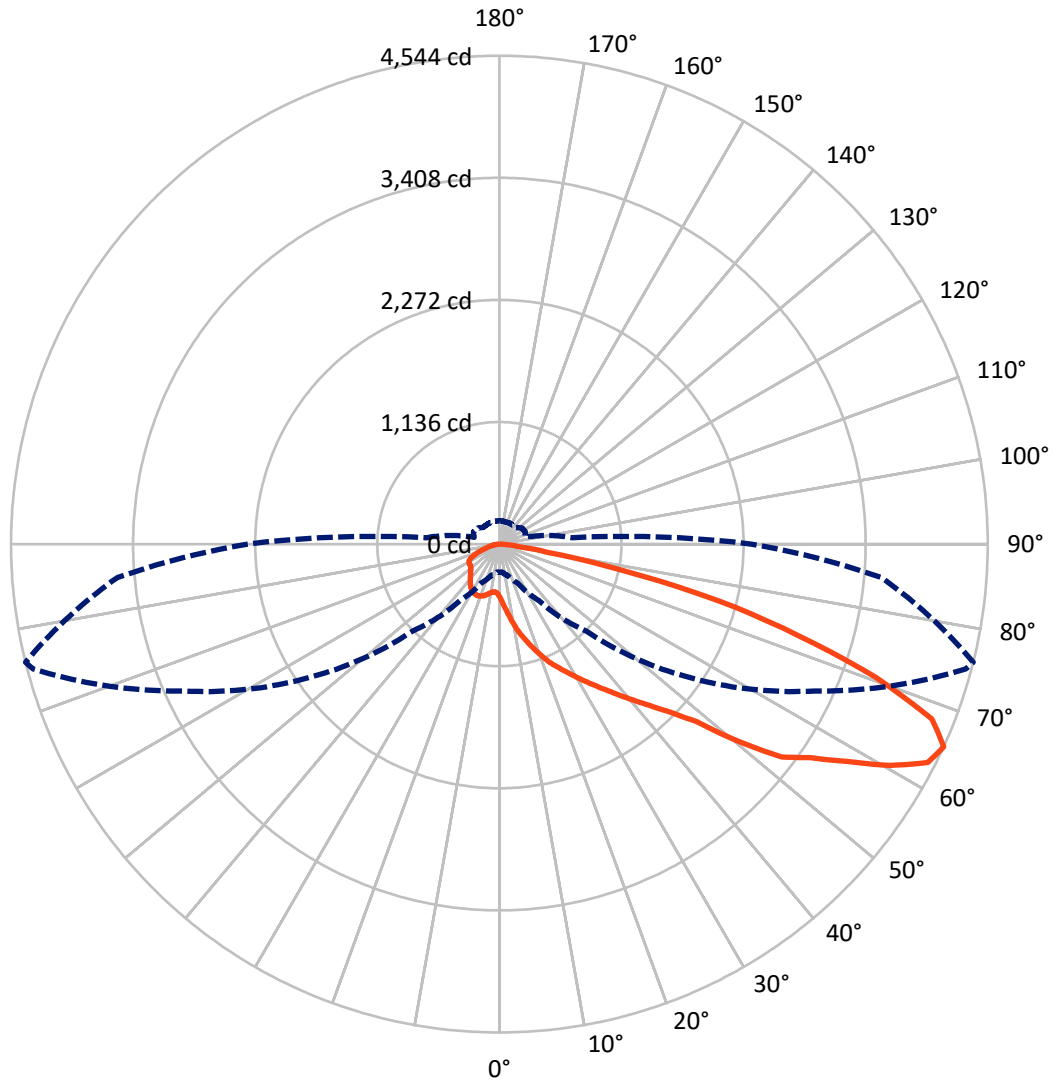
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P631620  
CATALOG NUMBER: GWS-SA2B-722-U-T2R-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P631620

CATALOG NUMBER: GWS-SA2B-722-U-T2R-W

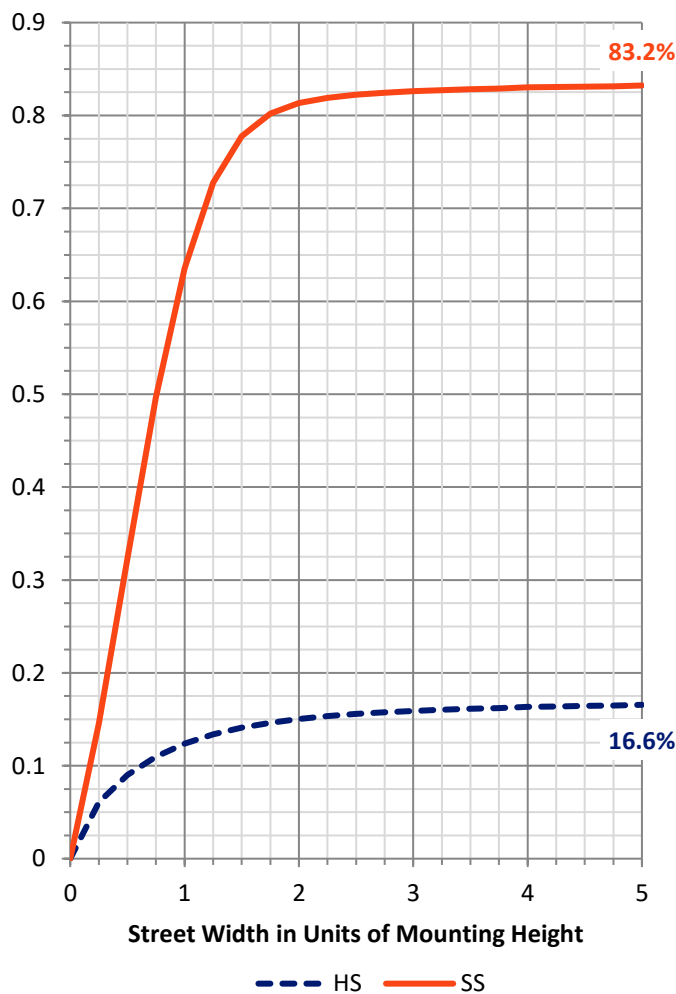
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	866.4	0.0	866.4
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	4317.0	0.0	4317.0
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	5183.4	0.0	5183.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	1.1
10°-20°	222.1	4.3
20°-30°	432.9	8.4
30°-40°	724.0	14.0
40°-50°	1036.6	20.0
50°-60°	1227.2	23.7
60°-70°	1020.4	19.7
70°-80°	417.6	8.1
80°-90°	44.5	0.9
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°	5183.4	100.0
0°-180°	5183.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631620

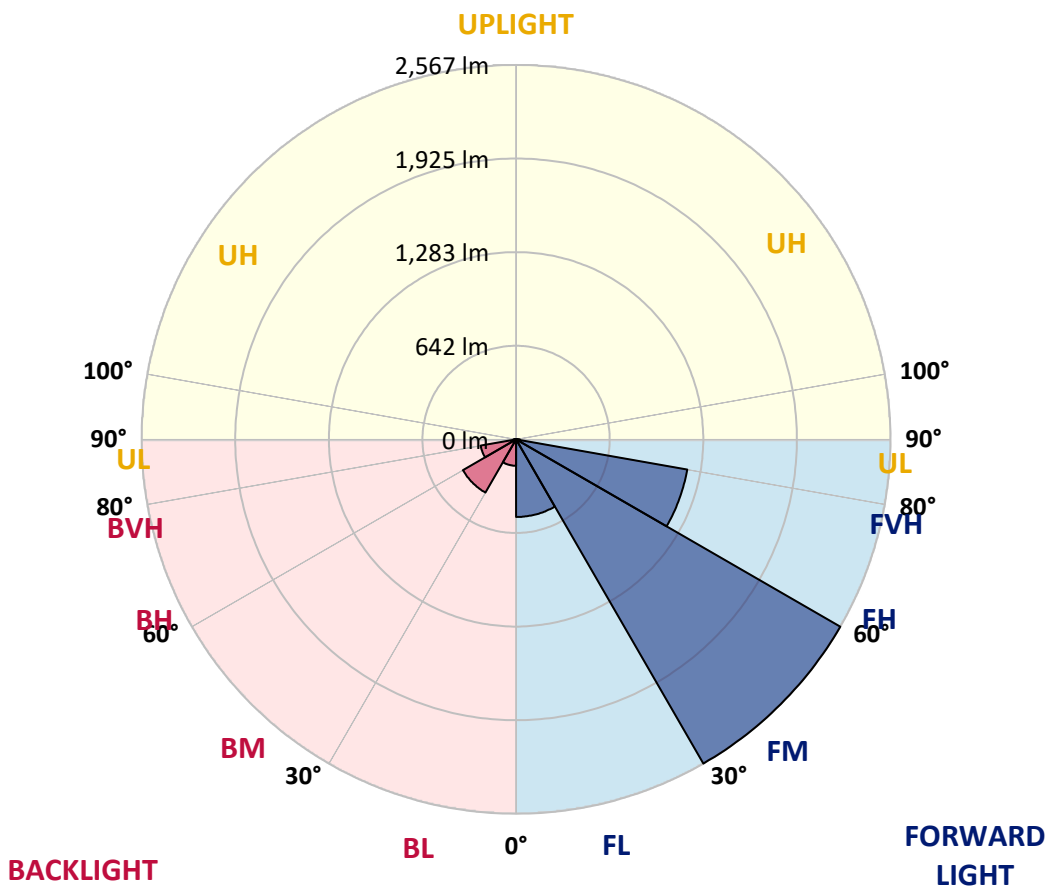
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.1	10.3			
FM (30°-60°)	2566.6	49.5			
FH (60°-80°)	1191.8	23.0			G1/1800
FVH (80°-90°)	26.5	0.5			G1/100
BL (0°-30°)	181.3	3.5	B1/500		
BM (30°-60°)	421.1	8.1	B1/1000		
BH (60°-80°)	246.2	4.7	B1/500		G1/500
BVH (80°-90°)	17.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P631620  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8
2.5°	688.0	690.5	682.2	679.2	659.6	633.0	610.7	577.2	546.2	541.5	513.8
5°	873.8	862.9	853.4	847.2	819.9	789.7	742.7	679.6	613.7	605.6	545.9
7.5°	984.2	982.4	970.8	967.1	946.0	915.7	867.3	788.9	693.1	680.0	589.2
10°	1072.8	1071.7	1065.9	1069.2	1049.8	1020.3	973.3	892.4	780.2	767.1	637.7
12.5°	1150.1	1151.9	1150.8	1162.8	1153.0	1130.0	1081.2	992.3	867.3	853.1	696.7
15°	1206.5	1208.0	1213.5	1239.7	1245.2	1240.4	1190.9	1090.3	953.3	932.9	757.6
17.5°	1222.6	1225.5	1238.6	1280.9	1310.4	1330.1	1293.3	1190.1	1037.8	1015.6	819.5
20°	1244.1	1247.3	1260.5	1304.6	1347.9	1392.7	1386.2	1291.4	1123.1	1104.9	882.2
22.5°	1343.5	1341.0	1335.2	1356.3	1387.3	1443.0	1459.4	1388.7	1211.3	1193.8	951.5
25°	1535.2	1530.5	1493.3	1474.0	1463.8	1497.7	1526.8	1477.3	1297.3	1271.0	1016.0
27.5°	1746.6	1744.0	1696.7	1650.7	1588.1	1573.5	1590.6	1554.5	1380.7	1354.1	1072.1
30°	1946.6	1939.0	1889.4	1831.8	1748.0	1685.4	1660.2	1630.3	1472.2	1444.5	1137.7
32.5°	2125.6	2115.7	2057.4	1993.6	1905.8	1831.8	1756.8	1710.9	1575.7	1543.6	1204.7
35°	2272.4	2262.6	2202.8	2135.0	2038.5	1983.8	1881.0	1798.3	1681.0	1648.6	1283.8
37.5°	2386.1	2377.0	2314.7	2248.0	2163.8	2120.5	2031.2	1896.7	1802.3	1768.4	1367.6
40°	2449.9	2443.3	2393.4	2340.6	2269.9	2232.3	2192.2	2021.0	1938.3	1904.4	1466.4
42.5°	2469.2	2464.8	2429.8	2402.5	2354.8	2326.3	2349.3	2167.1	2083.3	2053.8	1577.5
45°	2420.7	2420.7	2410.5	2424.4	2426.5	2426.2	2506.7	2332.2	2261.5	2229.0	1734.2
47.5°	2296.8	2304.8	2319.8	2387.9	2459.7	2519.8	2690.7	2552.3	2490.7	2464.1	1956.1
50°	2070.2	2092.0	2143.0	2276.1	2428.7	2581.8	2864.9	2877.7	2936.3	2889.3	2282.6
52.5°	1738.2	1734.9	1865.0	2054.5	2287.3	2584.3	2960.8	3164.8	3322.6	3290.2	2525.3
55°	1381.4	1376.0	1497.3	1758.6	2070.5	2486.7	3018.3	3296.4	3536.9	3507.7	2743.6
57.5°	1057.9	1050.9	1158.8	1394.6	1764.4	2279.3	3007.4	3453.1	3831.7	3816.7	3040.2
60°	728.1	719.7	820.6	1026.9	1402.2	1962.3	2886.4	3533.6	4176.8	4181.9	3357.6
62.5°	437.3	432.5	505.8	665.8	1008.7	1569.5	2603.3	3484.8	4451.5	4474.5	3561.7
65°	263.8	260.5	303.5	397.2	639.9	1145.3	2166.7	3235.2	4491.2	4544.1	3566.4
67.5°	192.0	192.4	204.8	242.0	373.1	739.7	1626.0	2787.7	4284.3	4338.9	3341.6
70°	166.9	167.6	174.2	182.6	225.6	423.4	1057.1	2200.6	3672.4	3714.7	2802.6
72.5°	148.3	148.3	152.7	157.1	176.4	258.0	566.3	1538.1	2898.4	2909.7	2139.0
75°	130.5	129.4	131.5	133.7	153.0	180.4	275.5	1071.7	2140.9	2114.6	1382.5
77.5°	103.9	102.8	103.1	105.3	122.8	129.0	139.6	669.4	1206.5	1138.8	610.7
80°	74.0	73.2	77.3	82.7	90.7	79.1	87.5	324.0	478.5	445.3	236.9
82.5°	44.1	45.6	51.7	56.1	62.7	49.6	56.5	108.2	169.4	165.1	96.2
85°	6.2	6.6	18.6	21.5	27.0	19.3	29.9	48.8	67.8	72.5	33.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	8.7	19.3	19.7	8.4
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: P631620  
 CATALOG NUMBER: GWS-SA2B-722-U-T2R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8
2.5°	499.6	482.5	458.1	437.6	420.5	406.7	395.0	386.3	383.7	380.1	380.1
5°	517.8	486.8	443.1	412.1	394.3	383.7	376.4	372.8	371.0	368.8	367.7
7.5°	543.0	499.6	440.6	409.2	395.4	388.8	384.1	381.9	380.4	378.2	378.2
10°	577.6	518.5	448.6	419.4	408.5	401.9	396.5	392.8	389.5	386.3	385.5
12.5°	615.1	543.3	463.2	433.3	421.6	413.6	405.9	400.5	396.5	392.5	391.4
15°	656.7	568.8	478.8	446.8	432.2	421.2	412.1	403.8	398.3	392.5	391.7
17.5°	697.5	594.7	491.9	455.9	437.3	423.8	410.7	399.7	392.8	386.3	384.4
20°	746.3	620.6	501.1	458.4	436.2	418.3	402.7	388.8	381.2	373.5	372.4
22.5°	791.1	644.6	505.4	454.8	427.8	406.7	388.5	373.5	365.1	357.5	356.0
25°	834.5	665.8	503.6	446.0	415.1	390.6	371.7	356.7	348.7	340.7	338.5
27.5°	876.4	680.0	496.3	432.5	399.0	372.8	354.6	341.1	334.2	327.2	324.3
30°	917.6	693.1	485.0	415.1	378.6	354.2	339.3	329.8	322.9	315.6	313.4
32.5°	959.1	702.6	467.9	394.6	357.8	337.8	328.7	321.8	314.5	307.2	305.0
35°	1001.0	706.6	447.1	371.3	340.4	327.2	324.0	315.9	306.1	297.4	294.4
37.5°	1050.9	710.2	421.2	348.4	325.0	322.1	321.4	309.4	297.7	285.7	282.4
40°	1111.1	715.0	394.6	327.6	312.7	320.3	317.4	301.0	277.7	266.0	262.4
42.5°	1184.7	723.7	367.0	308.6	303.5	313.4	310.1	280.6	264.9	258.4	256.5
45°	1292.9	755.8	339.3	293.7	296.6	303.5	298.4	268.6	262.4	258.0	255.8
47.5°	1485.7	805.0	315.2	282.4	291.2	294.8	275.1	265.3	260.5	254.7	252.2
50°	1686.1	826.5	295.9	275.5	285.0	286.8	262.4	260.9	257.6	251.4	248.9
52.5°	1821.6	823.5	284.2	272.9	279.9	272.9	256.5	256.2	254.0	246.7	243.8
55°	1974.7	828.6	279.1	273.7	277.7	249.6	249.3	250.3	249.3	241.2	239.8
57.5°	2181.3	844.3	276.6	276.2	276.2	238.3	242.3	243.8	241.6	238.0	236.9
60°	2379.9	845.4	271.8	279.1	275.1	231.4	234.3	235.8	233.2	232.5	232.1
62.5°	2454.6	792.9	261.3	276.9	270.8	223.7	225.9	226.7	224.1	225.9	225.6
65°	2343.5	681.4	243.8	266.4	257.3	216.8	215.4	217.2	212.8	217.5	217.9
67.5°	2080.7	541.5	217.2	246.3	238.3	209.2	206.3	206.3	199.0	206.3	205.9
70°	1677.7	382.6	178.2	214.3	217.5	200.1	198.6	190.2	178.6	189.5	188.4
72.5°	1271.8	274.8	140.3	169.4	187.3	187.3	187.7	173.5	160.0	165.1	160.7
75°	805.7	193.5	112.2	129.7	146.9	164.3	172.7	146.5	134.5	132.3	130.1
77.5°	362.9	127.2	87.5	99.5	104.2	129.7	157.8	126.1	109.7	104.9	103.5
80°	152.0	79.1	62.3	70.3	64.1	109.0	139.2	98.0	80.5	74.0	69.2
82.5°	66.7	47.0	39.7	37.9	40.1	80.9	103.9	65.2	50.3	68.1	68.9
85°	28.1	24.8	20.4	18.6	16.4	31.0	48.8	25.5	31.3	17.9	14.6
87.5°	6.6	7.3	5.5	3.6	2.2	0.4	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)