

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: P632068

Luminaire Tested: GWS-SA2B-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5573.2 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
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

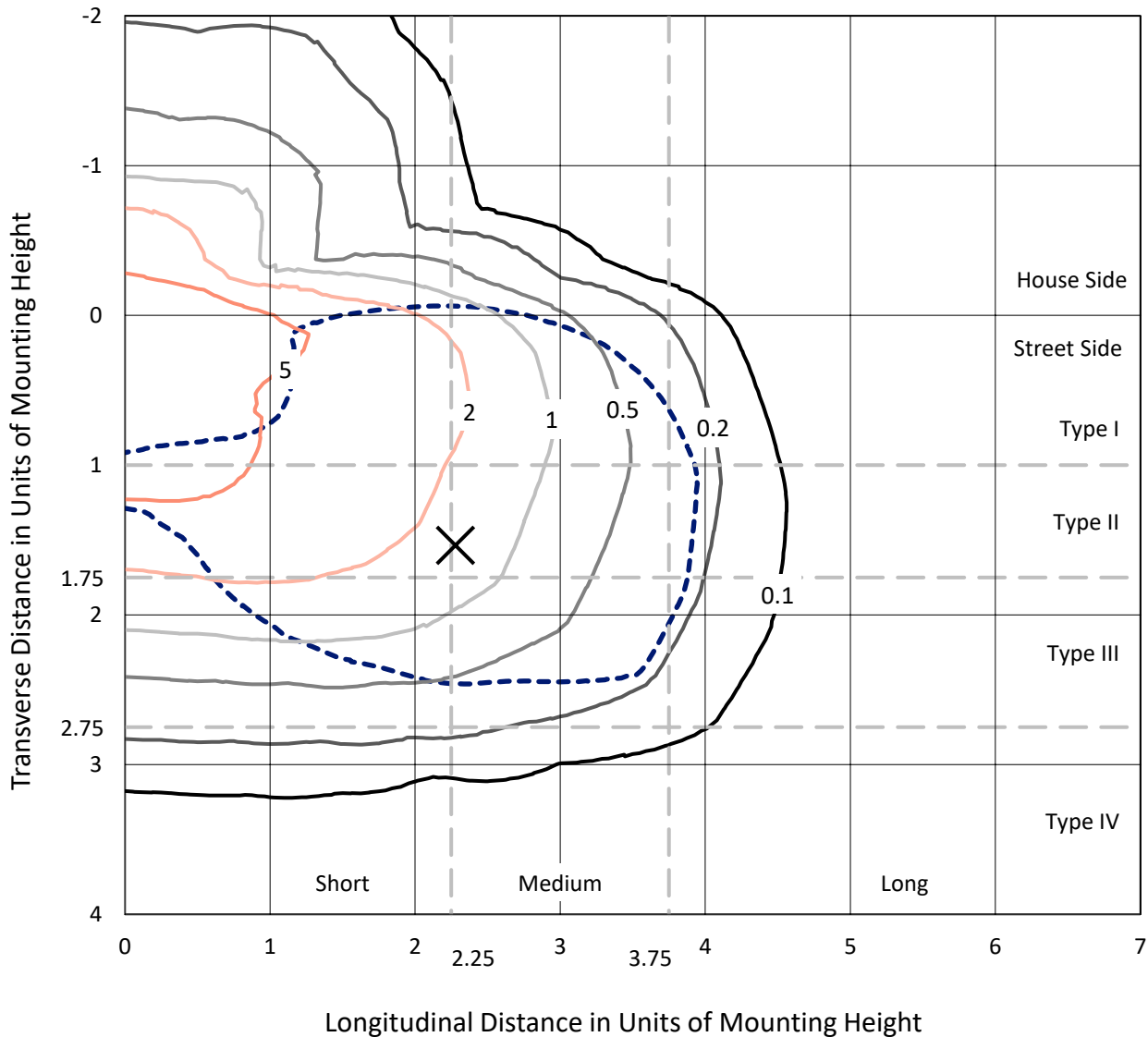


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### Iso-Footcandle Lines of Horizontal Illumination

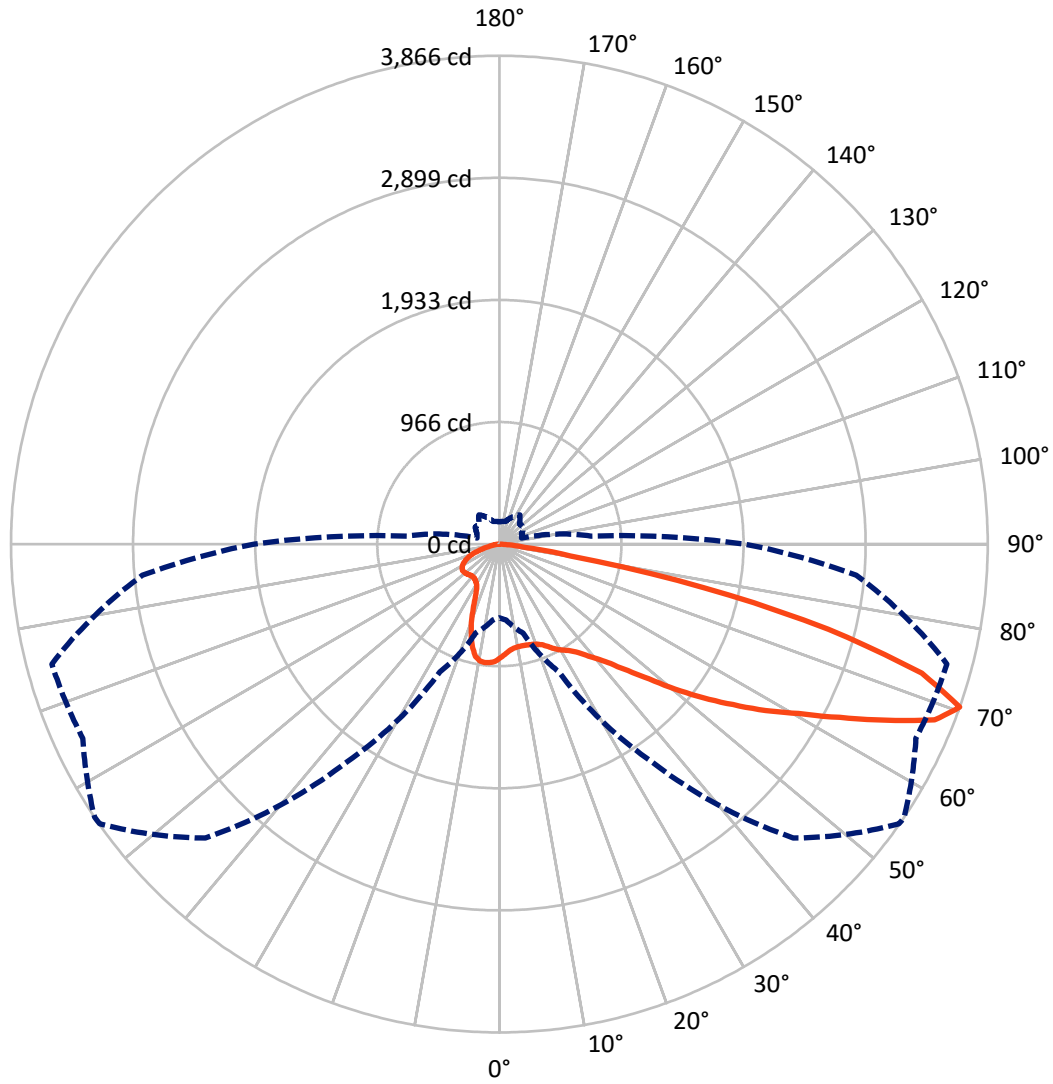
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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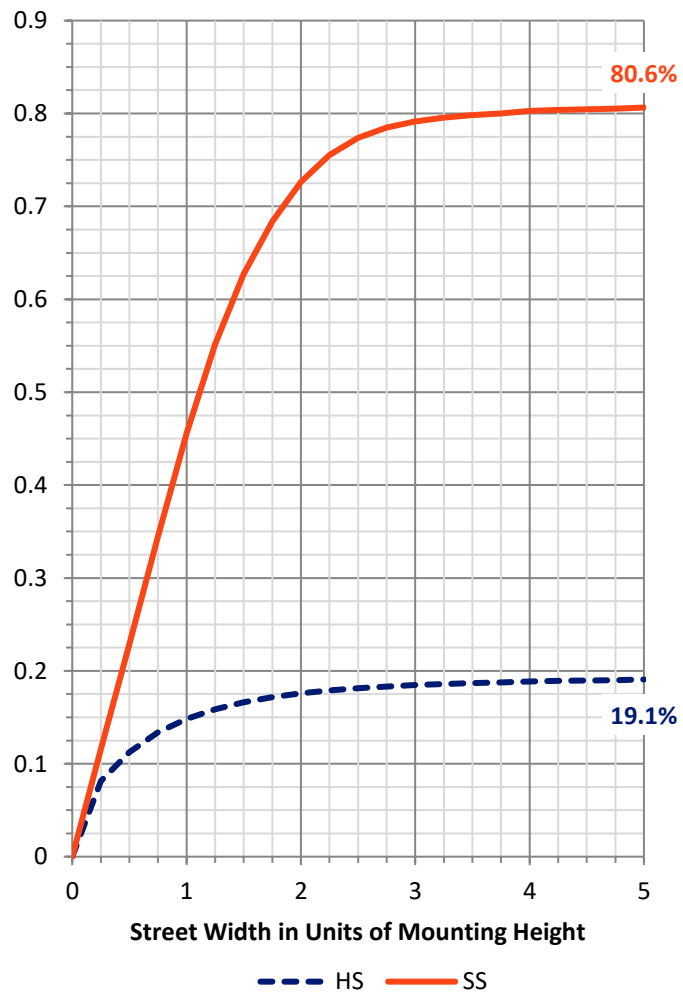
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1071.5	0.0	1071.5
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	4501.8	0.0	4501.8
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	5573.2	0.0	5573.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	1.5
10°-20°	225.6	4.0
20°-30°	372.9	6.7
30°-40°	557.6	10.0
40°-50°	829.7	14.9
50°-60°	1179.6	21.2
60°-70°	1461.0	26.2
70°-80°	806.7	14.5
80°-90°	56.8	1.0
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°	5573.2	100.0
0°-180°	5573.2	100.0

**Coefficient of Utilization**



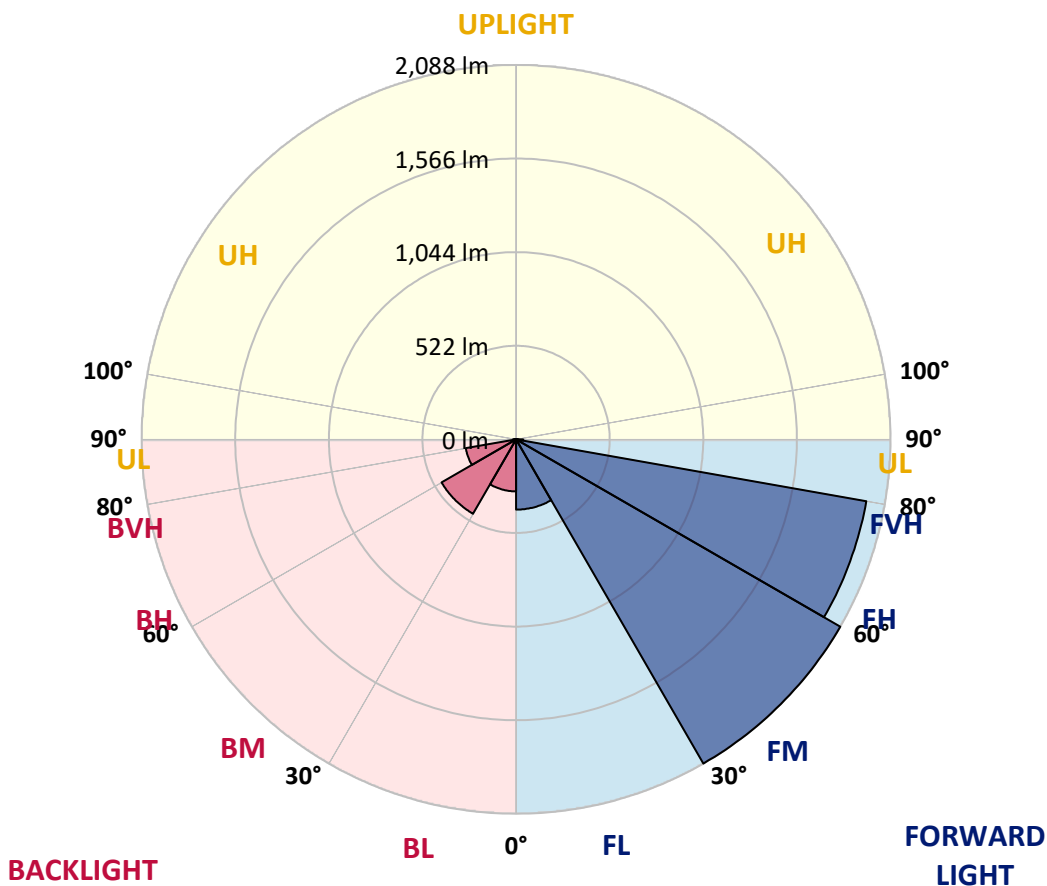
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.7	7.0			
FM (30°-60°)	2087.6	37.5			
FH (60°-80°)	1983.0	35.6			G2/5000
FVH (80°-90°)	39.5	0.7			G1/100
BL (0°-30°)	290.0	5.2	B1/500		
BM (30°-60°)	479.3	8.6	B1/1000		
BH (60°-80°)	284.8	5.1	B1/500		G1/500
BVH (80°-90°)	17.3	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6
2.5°	841.8	837.1	842.6	845.4	852.4	862.7	871.7	872.1	876.8	888.2	899.2
5°	803.7	801.3	802.9	811.2	818.6	831.6	845.4	846.5	859.9	882.3	904.3
7.5°	774.2	771.1	777.0	787.6	797.0	811.6	829.6	831.2	850.1	883.9	917.7
10°	731.8	729.4	740.4	754.6	775.0	799.0	823.0	824.9	849.7	894.1	941.3
12.5°	713.3	713.3	718.0	731.4	753.8	785.6	821.8	824.9	856.0	909.8	971.5
15°	742.0	744.0	740.0	739.3	748.3	778.6	823.4	828.1	867.8	925.9	1001.4
17.5°	799.8	801.7	791.5	775.4	766.4	785.2	829.3	834.4	880.3	943.6	1033.6
20°	880.7	883.1	860.7	835.9	804.9	804.5	840.6	845.4	896.5	962.9	1067.8
22.5°	975.5	977.0	948.7	909.4	861.9	840.3	860.3	865.0	917.3	989.6	1104.8
25°	1085.1	1089.8	1055.6	998.6	934.2	889.4	892.9	898.4	954.6	1025.4	1148.4
27.5°	1202.2	1208.1	1168.8	1105.9	1017.1	943.6	935.0	939.7	994.3	1047.4	1171.6
30°	1322.1	1326.4	1287.1	1215.2	1106.3	1004.9	970.3	973.1	1011.6	1058.0	1195.1
32.5°	1455.3	1451.8	1414.1	1331.1	1209.3	1078.4	1003.4	1002.6	1030.9	1079.2	1228.9
35°	1580.3	1585.4	1545.3	1453.7	1322.5	1169.2	1052.9	1049.7	1071.7	1113.8	1276.5
37.5°	1731.6	1730.0	1682.1	1583.0	1436.1	1256.1	1122.4	1116.9	1124.8	1167.6	1342.9
40°	1839.7	1850.7	1819.6	1727.3	1568.9	1363.0	1203.8	1191.6	1193.6	1234.1	1431.7
42.5°	1928.1	1938.3	1941.5	1882.5	1721.0	1495.0	1305.2	1293.0	1294.2	1351.6	1541.0
45°	1996.1	2009.9	2054.3	2037.0	1892.3	1647.5	1442.3	1429.8	1430.6	1494.2	1673.0
47.5°	2024.0	2038.9	2128.9	2170.2	2074.3	1829.9	1612.9	1594.4	1597.2	1667.5	1824.0
50°	2015.0	2035.0	2156.8	2272.8	2226.8	2015.4	1816.9	1803.9	1793.3	1895.5	1987.8
52.5°	1937.1	1959.2	2154.1	2338.0	2351.4	2190.6	2027.5	2020.1	2017.7	2137.6	2171.0
55°	1708.0	1745.0	2059.4	2355.3	2448.8	2355.7	2255.9	2243.3	2255.5	2397.0	2356.1
57.5°	1581.1	1608.6	1873.9	2336.1	2528.6	2512.9	2483.8	2485.0	2498.8	2678.8	2580.5
60°	1508.8	1541.0	1770.9	2283.4	2605.3	2703.9	2722.4	2722.4	2747.1	2982.6	2808.5
62.5°	1412.9	1445.5	1674.6	2182.0	2676.0	2928.7	3022.2	3021.1	3030.9	3308.4	3031.3
65°	1218.3	1248.6	1481.3	2022.0	2710.6	3176.3	3363.0	3359.5	3339.8	3598.4	3178.7
67.5°	884.7	913.4	1134.6	1717.8	2586.0	3376.0	3713.9	3715.5	3598.0	3781.2	3186.5
70°	583.2	602.9	729.4	1115.8	2103.0	3289.9	3860.9	3865.6	3637.7	3667.2	2836.0
72.5°	363.9	377.7	455.5	665.4	1242.7	2604.1	3483.6	3496.6	3272.6	3222.7	2330.2
75°	241.7	251.1	303.0	387.9	575.0	1409.3	2648.1	2689.8	2622.9	2526.3	1623.5
77.5°	145.4	153.3	193.0	246.4	254.7	550.6	1545.7	1653.4	1662.8	1318.9	679.9
80°	66.4	75.5	106.5	140.7	135.6	191.8	545.1	570.3	672.8	418.9	214.6
82.5°	39.3	43.2	70.7	70.0	57.8	93.1	196.1	201.2	171.0	153.3	91.6
85°	15.7	18.5	29.9	26.3	21.2	30.3	73.9	77.4	74.3	66.8	33.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	6.7	7.1	10.2	18.5	10.2
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°	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6
2.5°	906.3	903.9	915.7	924.8	928.7	932.6	929.1	927.9	927.9	920.0	916.1
5°	916.1	917.3	933.4	940.9	940.9	937.7	928.3	921.6	919.3	909.0	906.3
7.5°	934.6	939.7	954.6	954.2	943.2	925.9	902.4	884.3	867.8	860.7	856.4
10°	964.8	971.5	981.7	965.2	934.6	889.0	839.1	799.8	776.2	757.3	757.3
12.5°	999.4	1005.7	1003.7	965.6	902.4	817.1	745.1	700.0	666.9	649.6	649.6
15°	1034.0	1039.1	1017.9	947.5	835.1	721.6	643.0	588.7	560.0	543.9	543.9
17.5°	1069.0	1068.6	1023.8	905.9	747.5	615.8	538.8	496.8	486.9	484.2	483.8
20°	1102.8	1093.7	1016.3	836.3	645.7	509.3	460.6	463.4	477.9	484.2	485.0
22.5°	1140.9	1118.5	994.3	747.5	530.2	435.5	438.6	461.4	482.6	492.0	493.2
25°	1179.8	1139.7	957.4	643.4	433.5	408.3	432.7	458.2	482.2	494.4	495.6
27.5°	1195.5	1139.7	894.5	522.7	382.0	396.9	423.7	448.4	473.6	487.7	490.5
30°	1208.5	1129.9	806.5	413.8	360.8	385.9	409.1	431.9	456.7	474.0	477.1
32.5°	1226.6	1121.3	700.0	347.8	351.0	375.3	391.4	410.7	433.1	444.5	443.3
35°	1247.8	1107.9	571.4	316.4	342.7	366.3	377.7	389.1	378.9	378.5	379.6
37.5°	1278.1	1096.1	459.4	302.2	337.2	360.0	369.4	345.1	330.9	325.0	322.7
40°	1321.7	1091.4	362.4	294.0	336.4	359.6	352.9	315.2	295.9	275.5	275.1
42.5°	1376.7	1087.9	299.5	290.0	339.2	368.6	330.1	295.5	255.8	246.8	246.0
45°	1447.5	1082.3	268.0	289.3	345.8	375.7	327.8	268.4	241.3	237.4	237.4
47.5°	1532.7	1073.7	253.9	289.3	353.3	372.6	320.7	262.5	234.6	239.0	241.7
50°	1630.6	1062.7	246.4	288.5	360.8	372.6	305.8	261.4	233.1	255.5	264.5
52.5°	1735.1	1050.1	241.3	285.3	365.9	373.0	306.5	265.3	234.6	259.4	266.9
55°	1850.7	1048.2	234.2	278.6	367.5	362.7	308.5	273.9	237.0	235.0	235.4
57.5°	1996.5	1071.7	229.1	268.8	361.2	341.9	312.4	280.2	234.2	234.6	237.4
60°	2149.0	1116.1	233.4	259.4	348.2	322.3	315.2	277.1	220.9	214.6	215.4
62.5°	2278.7	1149.9	237.0	255.1	329.3	305.0	312.4	270.0	213.4	211.8	215.4
65°	2332.9	1122.0	228.3	246.0	301.8	283.8	306.5	261.0	207.1	201.2	201.6
67.5°	2272.8	991.2	211.4	226.0	270.8	256.6	297.1	249.2	198.5	191.4	189.8
70°	1941.5	728.2	182.4	194.1	233.1	224.8	282.6	233.8	184.7	179.6	176.1
72.5°	1564.6	515.6	151.3	154.5	182.7	189.4	257.4	214.6	169.0	154.5	149.3
75°	1089.0	323.8	126.2	123.0	132.1	144.6	200.8	178.0	145.8	130.5	125.8
77.5°	468.5	166.2	98.6	97.1	88.0	100.2	154.1	148.6	122.2	104.5	101.8
80°	156.8	96.3	71.1	68.4	58.6	70.3	108.5	118.7	95.9	77.4	72.7
82.5°	78.6	55.8	45.2	40.9	39.3	44.4	64.1	73.9	66.4	53.4	45.2
85°	38.5	31.8	24.8	24.4	20.4	19.3	26.7	31.4	29.9	22.0	20.8
87.5°	14.1	12.6	7.9	6.3	3.9	2.8	1.6	1.6	1.2	1.2	1.2
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)