

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: P631878

Luminaire Tested: GWS-SA2B-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6779.8 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

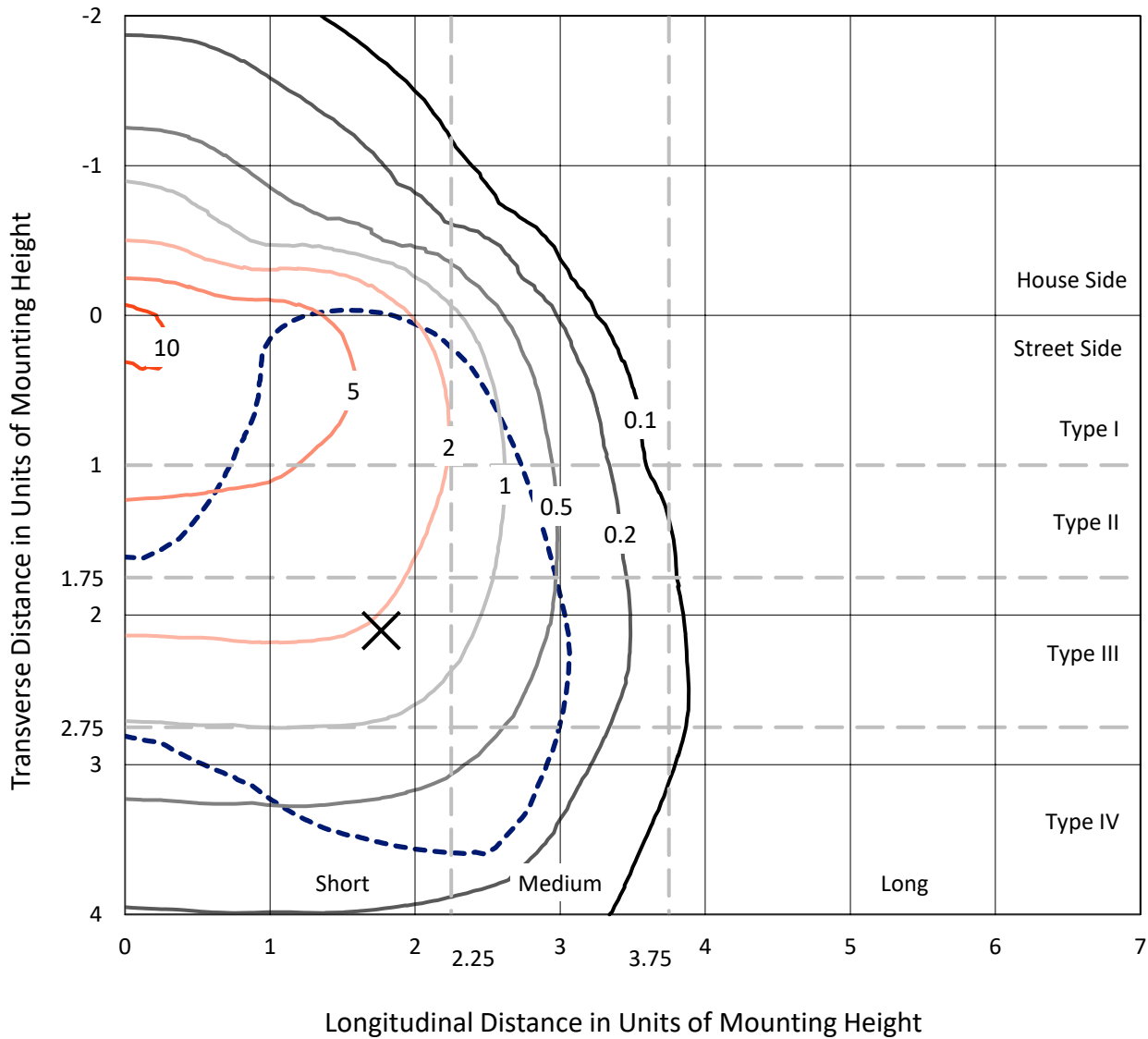
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

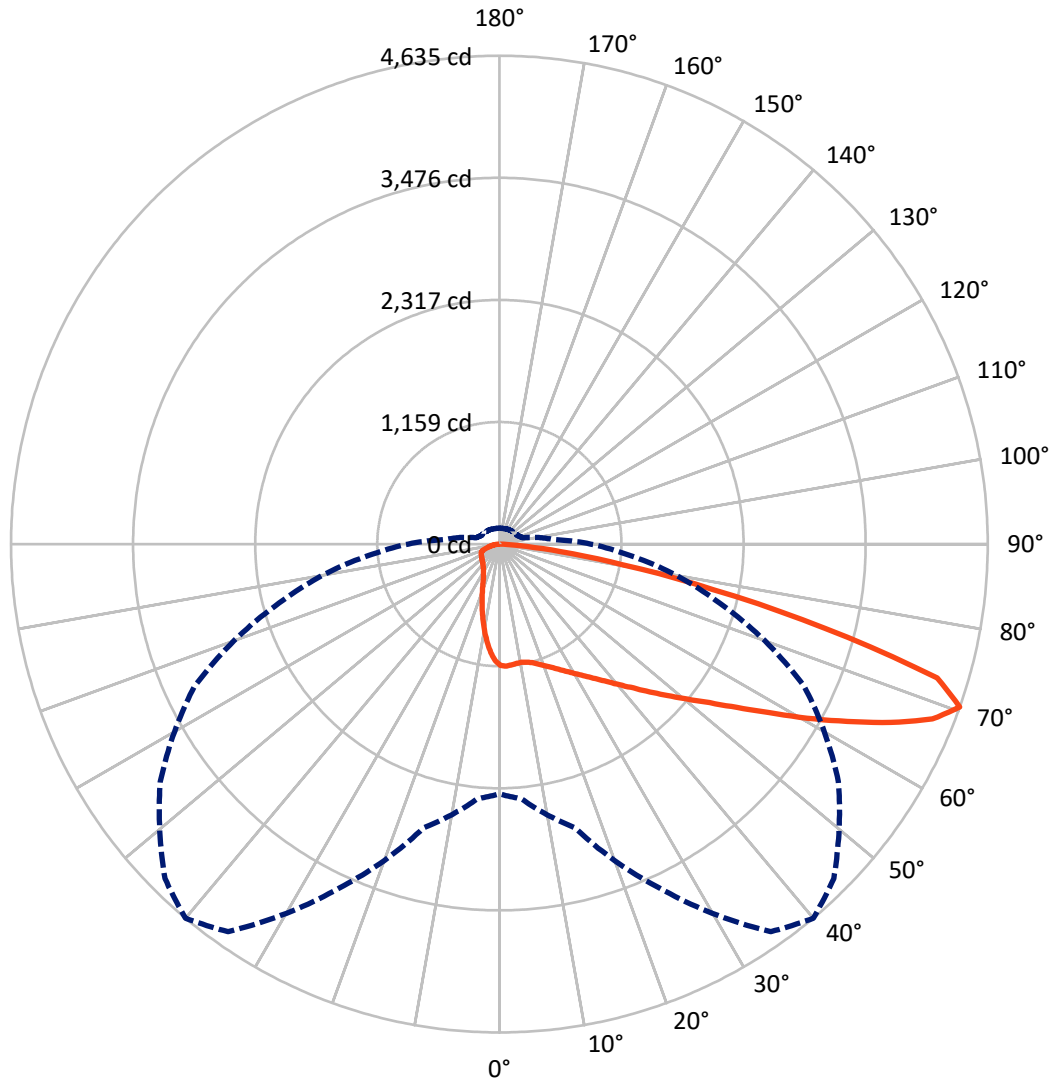
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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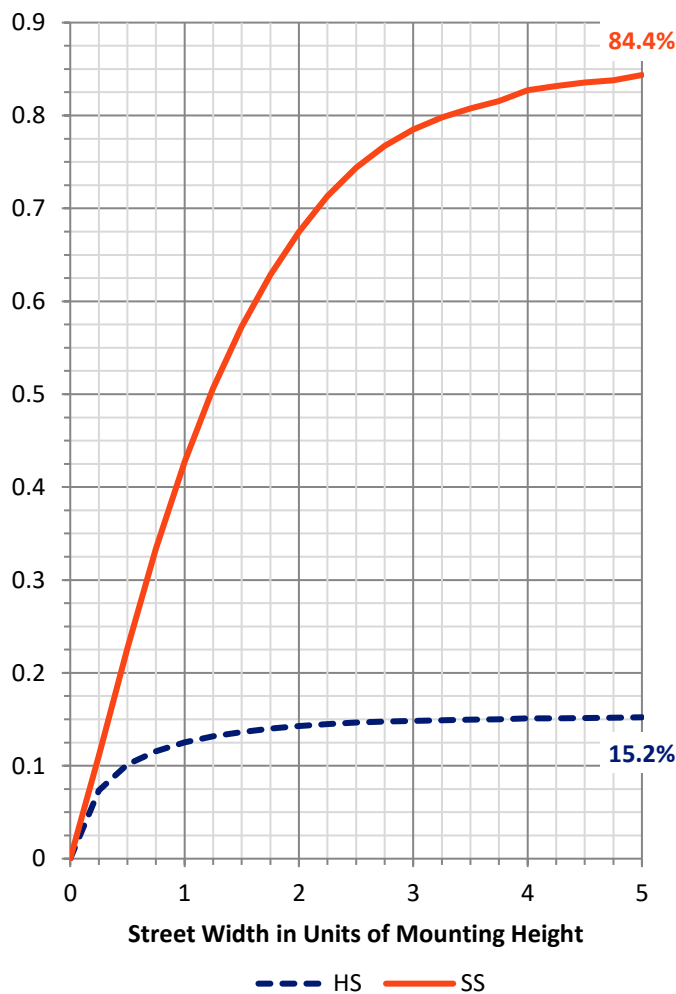
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1044.3	0.0	1044.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5735.5	0.0	5735.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	6779.8	0.0	6779.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.5
10°-20°	265.1	3.9
20°-30°	416.3	6.1
30°-40°	625.9	9.2
40°-50°	966.0	14.2
50°-60°	1434.7	21.2
60°-70°	1808.4	26.7
70°-80°	1045.7	15.4
80°-90°	116.1	1.7
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°	6779.8	100.0
0°-180°	6779.8	100.0

Coefficient of Utilization



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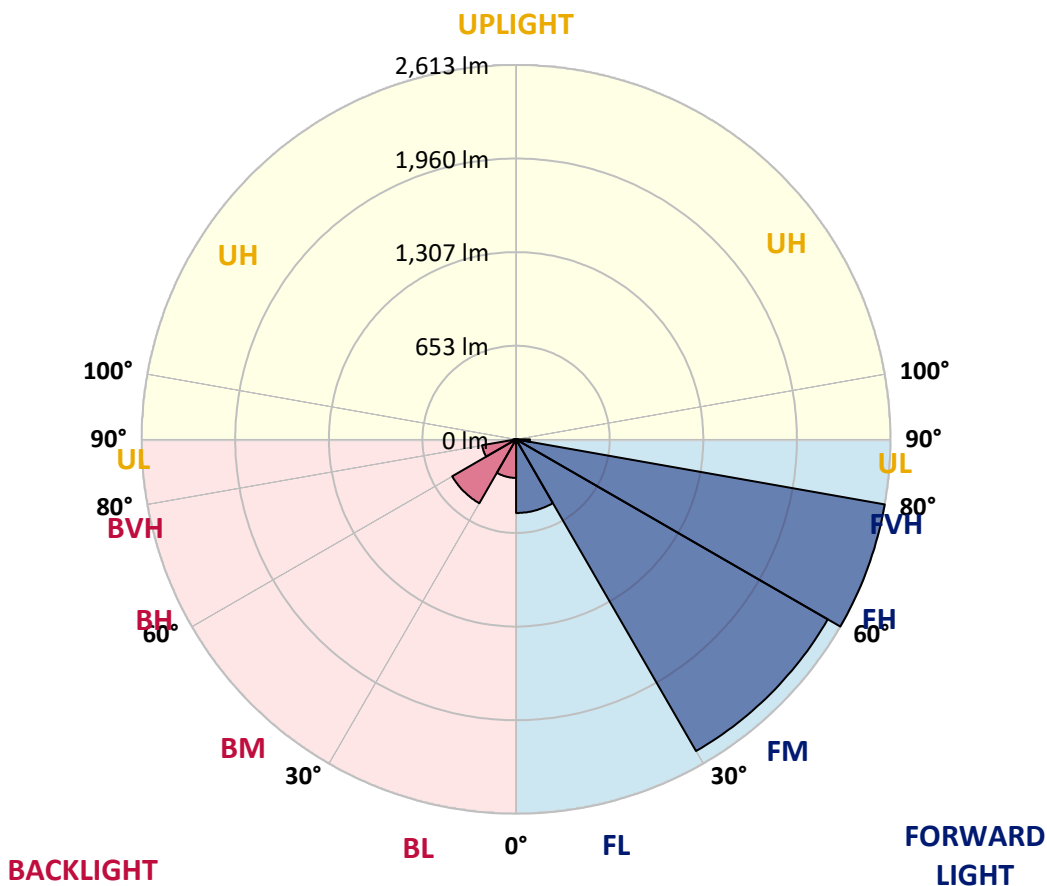
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.0	7.6			
FM (30°-60°)	2511.8	37.0			
FH (60°-80°)	2613.1	38.5			G2/5000
FVH (80°-90°)	96.7	1.4			G1/100
BL (0°-30°)	269.1	4.0	B1/500		
BM (30°-60°)	514.7	7.6	B1/1000		
BH (60°-80°)	241.0	3.6	B1/500		G1/500
BVH (80°-90°)	19.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1158.4	1160.4	1161.9	1163.9	1162.9	1159.9	1162.4	1162.4	1156.9	1150.8	1145.2
5°	1159.9	1162.4	1161.9	1161.4	1157.4	1152.3	1152.3	1149.3	1139.6	1130.0	1120.9
7.5°	1156.9	1156.3	1155.8	1154.3	1149.8	1144.2	1143.2	1137.1	1124.5	1111.3	1098.2
10°	1143.2	1142.7	1144.2	1147.7	1146.7	1141.7	1141.7	1136.1	1121.4	1105.2	1088.0
12.5°	1132.1	1132.1	1138.1	1147.7	1151.3	1149.3	1149.8	1145.7	1129.0	1109.8	1089.5
15°	1133.6	1134.1	1147.2	1162.9	1169.5	1168.0	1168.5	1163.9	1145.2	1126.0	1098.7
17.5°	1143.7	1146.2	1169.0	1190.8	1199.4	1197.3	1193.8	1186.2	1165.0	1143.2	1109.8
20°	1165.0	1169.0	1198.4	1225.7	1235.8	1231.2	1225.2	1210.0	1186.7	1162.9	1121.9
22.5°	1207.0	1209.5	1241.9	1268.7	1276.8	1271.2	1259.1	1237.3	1210.5	1185.7	1136.6
25°	1266.2	1269.2	1300.1	1324.9	1322.8	1316.3	1299.6	1272.7	1240.9	1214.5	1157.9
27.5°	1336.5	1341.6	1371.9	1391.7	1378.5	1368.9	1350.2	1317.8	1281.9	1258.1	1190.3
30°	1413.4	1415.5	1441.3	1461.0	1440.8	1427.6	1404.8	1369.9	1337.5	1319.8	1238.8
32.5°	1487.8	1489.8	1512.1	1523.2	1502.0	1492.4	1472.6	1435.7	1412.9	1403.3	1311.2
35°	1566.3	1565.8	1584.0	1593.6	1571.8	1567.8	1547.5	1519.2	1515.1	1527.8	1417.0
37.5°	1644.7	1640.1	1649.8	1662.4	1650.3	1654.3	1641.2	1631.5	1647.2	1680.1	1557.7
40°	1707.4	1707.4	1717.6	1733.3	1737.3	1755.0	1747.4	1760.1	1810.7	1889.1	1731.7
42.5°	1763.1	1763.6	1784.9	1809.2	1838.5	1865.8	1871.9	1904.8	2009.6	2132.5	1950.4
45°	1821.3	1821.8	1850.7	1886.1	1948.3	2000.5	2012.6	2086.5	2236.3	2386.1	2187.7
47.5°	1888.6	1883.1	1923.0	1982.2	2070.8	2145.7	2177.1	2281.8	2471.1	2655.3	2411.4
50°	1964.5	1952.9	1997.4	2099.6	2209.0	2311.7	2364.3	2484.3	2723.1	2903.8	2621.9
52.5°	2050.1	2043.5	2090.0	2214.5	2381.5	2499.9	2571.3	2728.7	2968.0	3151.2	2788.9
55°	2156.3	2140.6	2207.9	2366.3	2583.9	2734.8	2819.3	2970.6	3235.8	3375.9	2916.4
57.5°	2272.7	2255.5	2345.6	2556.1	2847.1	3012.6	3118.3	3242.8	3487.8	3548.0	2991.3
60°	2398.2	2392.7	2499.4	2778.8	3160.9	3353.2	3429.6	3542.4	3706.9	3647.7	2972.6
62.5°	2513.1	2511.1	2666.4	3020.2	3493.3	3704.9	3765.6	3795.5	3864.8	3641.1	2823.8
65°	2634.0	2651.3	2861.3	3300.0	3874.4	4081.9	4107.2	4031.3	3917.9	3468.5	2519.2
67.5°	2649.2	2682.6	2983.7	3562.2	4235.7	4431.6	4411.3	4120.9	3761.0	2988.3	1974.6
70°	2369.4	2427.6	2788.4	3602.1	4490.3	4634.5	4488.3	3928.0	3191.7	2164.9	1241.9
72.5°	1979.7	2029.8	2348.6	3071.8	4161.8	4345.5	4147.7	3324.8	2255.5	1241.9	632.6
75°	1541.0	1599.2	1893.2	2441.7	3115.8	3189.2	3090.0	2318.8	1239.8	512.1	287.4
77.5°	940.3	982.3	1211.0	1654.3	2180.1	2070.3	1754.5	1300.1	544.0	245.4	177.6
80°	416.0	441.8	596.6	888.6	1259.6	1190.8	938.7	555.1	297.6	155.9	124.0
82.5°	223.2	239.9	294.0	351.7	553.1	578.4	469.1	319.8	159.9	89.1	70.8
85°	98.2	107.8	133.6	127.5	181.7	178.6	180.2	219.6	76.4	41.0	46.1
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	5.6	29.4	7.6	12.1	10.6
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°	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1139.1	1130.0	1127.5	1124.5	1118.9	1109.3	1102.2	1094.1	1090.6	1086.5	1087.0
5°	1110.8	1099.7	1089.0	1075.4	1058.2	1038.9	1025.8	1010.6	1002.5	994.9	996.9
7.5°	1086.5	1069.3	1047.5	1018.7	987.8	953.4	925.6	903.8	889.1	879.0	884.1
10°	1071.3	1051.1	1013.1	966.1	913.9	861.3	821.3	783.9	760.6	742.4	741.4
12.5°	1068.3	1042.0	986.8	918.5	843.1	772.8	714.1	663.4	632.6	609.8	618.4
15°	1071.3	1037.9	964.0	874.5	779.3	684.2	611.3	553.1	516.2	495.4	493.9
17.5°	1074.9	1033.9	938.2	826.9	712.5	603.7	519.2	457.5	419.5	398.8	399.3
20°	1077.9	1027.8	907.9	774.8	644.7	528.8	441.3	382.6	348.7	333.5	336.0
22.5°	1083.0	1021.7	875.5	719.1	575.4	456.5	379.5	332.0	311.7	301.6	302.1
25°	1092.6	1018.2	842.1	658.4	507.1	398.8	337.0	305.2	292.5	286.4	285.9
27.5°	1112.3	1021.2	807.2	599.7	445.3	354.7	309.7	289.0	280.4	276.3	275.8
30°	1145.2	1033.4	776.8	540.0	392.2	320.3	291.0	278.3	273.3	269.7	269.2
32.5°	1195.3	1056.1	743.9	484.3	349.2	295.0	276.3	269.7	266.2	264.2	264.2
35°	1271.2	1097.6	711.5	435.7	315.8	275.3	264.7	262.1	259.1	258.1	259.1
37.5°	1380.5	1163.9	682.2	393.2	292.0	260.1	252.0	253.0	250.5	252.0	253.5
40°	1519.2	1252.5	657.4	358.3	274.3	249.0	240.9	244.4	242.9	244.4	247.0
42.5°	1694.8	1362.3	638.6	331.0	261.6	239.9	232.3	235.8	234.8	236.8	239.4
45°	1890.6	1507.0	630.0	311.7	252.5	233.3	225.2	227.7	226.7	228.2	230.8
47.5°	2078.4	1638.6	637.6	300.6	244.9	227.7	219.1	220.1	219.6	219.1	220.6
50°	2240.3	1743.4	659.4	297.1	239.9	222.2	214.1	214.6	213.1	210.0	211.0
52.5°	2372.4	1827.4	672.6	297.1	237.3	216.1	208.5	209.0	206.0	201.9	202.4
55°	2459.5	1861.3	661.9	296.6	236.3	211.0	202.9	203.4	200.4	195.3	195.8
57.5°	2484.3	1828.4	617.4	291.0	235.3	207.0	197.4	198.4	196.4	190.8	190.8
60°	2414.9	1708.0	535.9	278.3	232.8	204.4	193.3	194.8	193.8	188.3	188.3
62.5°	2233.2	1493.9	438.8	259.1	225.7	201.4	189.8	192.8	195.3	192.3	191.8
65°	1893.2	1196.8	356.8	237.8	216.6	196.4	184.7	192.3	197.9	201.9	201.9
67.5°	1420.5	856.8	291.0	215.6	202.9	186.2	178.1	185.2	189.3	191.8	193.3
70°	865.9	504.0	229.2	189.8	183.2	171.0	165.0	157.9	152.3	151.3	151.8
72.5°	423.6	288.5	186.2	161.4	156.4	145.2	131.6	128.5	126.0	124.5	124.0
75°	233.3	200.9	153.8	134.1	125.0	111.3	108.3	103.2	102.2	100.2	100.7
77.5°	165.0	158.4	127.0	108.8	95.1	88.1	89.6	86.0	86.0	84.5	84.0
80°	124.0	124.5	97.7	79.5	70.3	67.8	69.3	69.3	68.3	67.8	67.3
82.5°	78.4	88.6	65.8	51.1	50.1	50.6	50.1	49.6	50.6	49.1	48.6
85°	54.1	63.8	40.0	30.4	30.4	29.9	30.9	30.4	31.4	29.9	29.9
87.5°	12.1	28.3	14.7	9.1	9.6	9.1	9.6	10.1	11.1	11.6	11.6
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)