

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: P631842

Luminaire Tested: GWS-SA2B-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5890.2 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

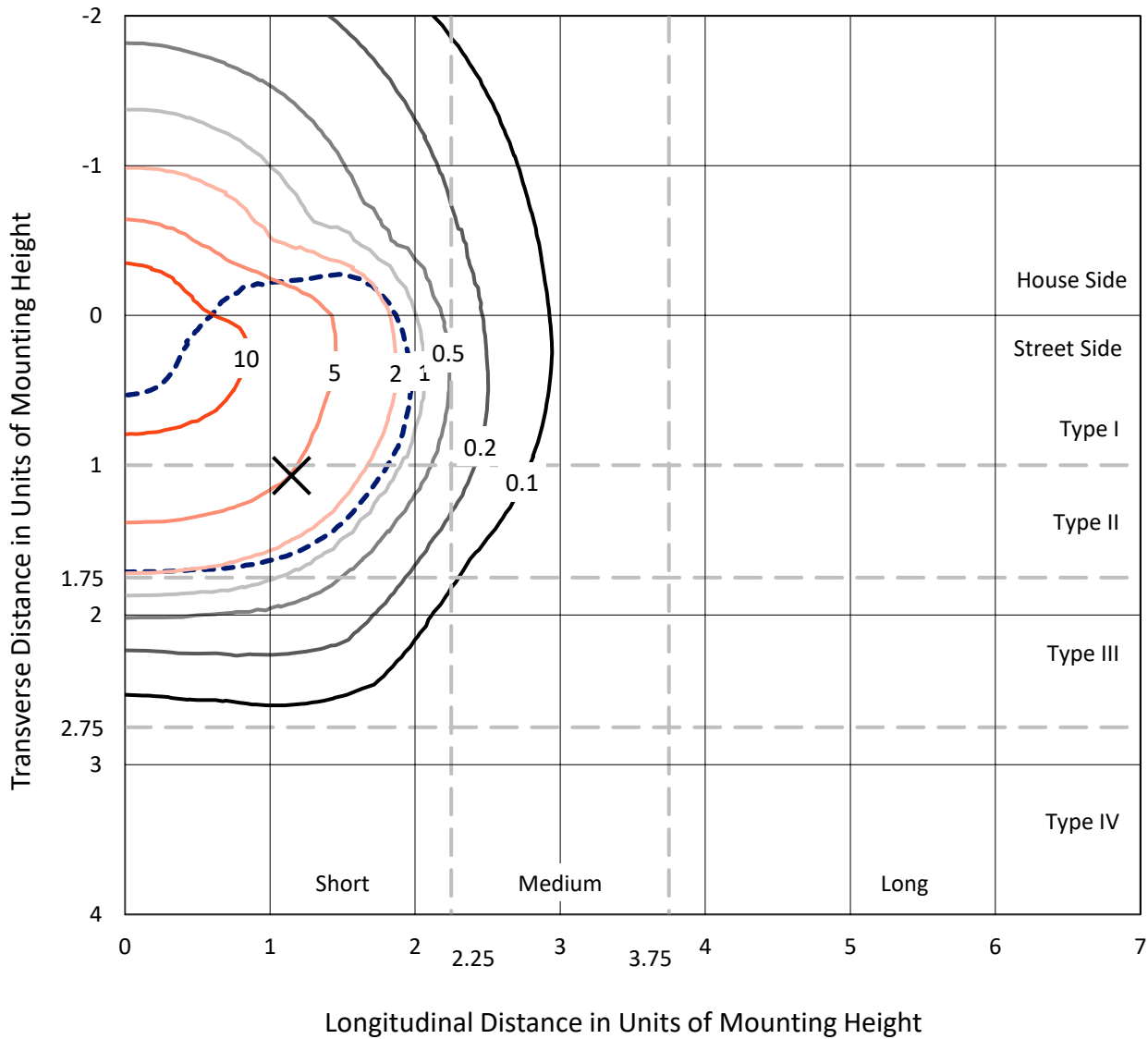
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

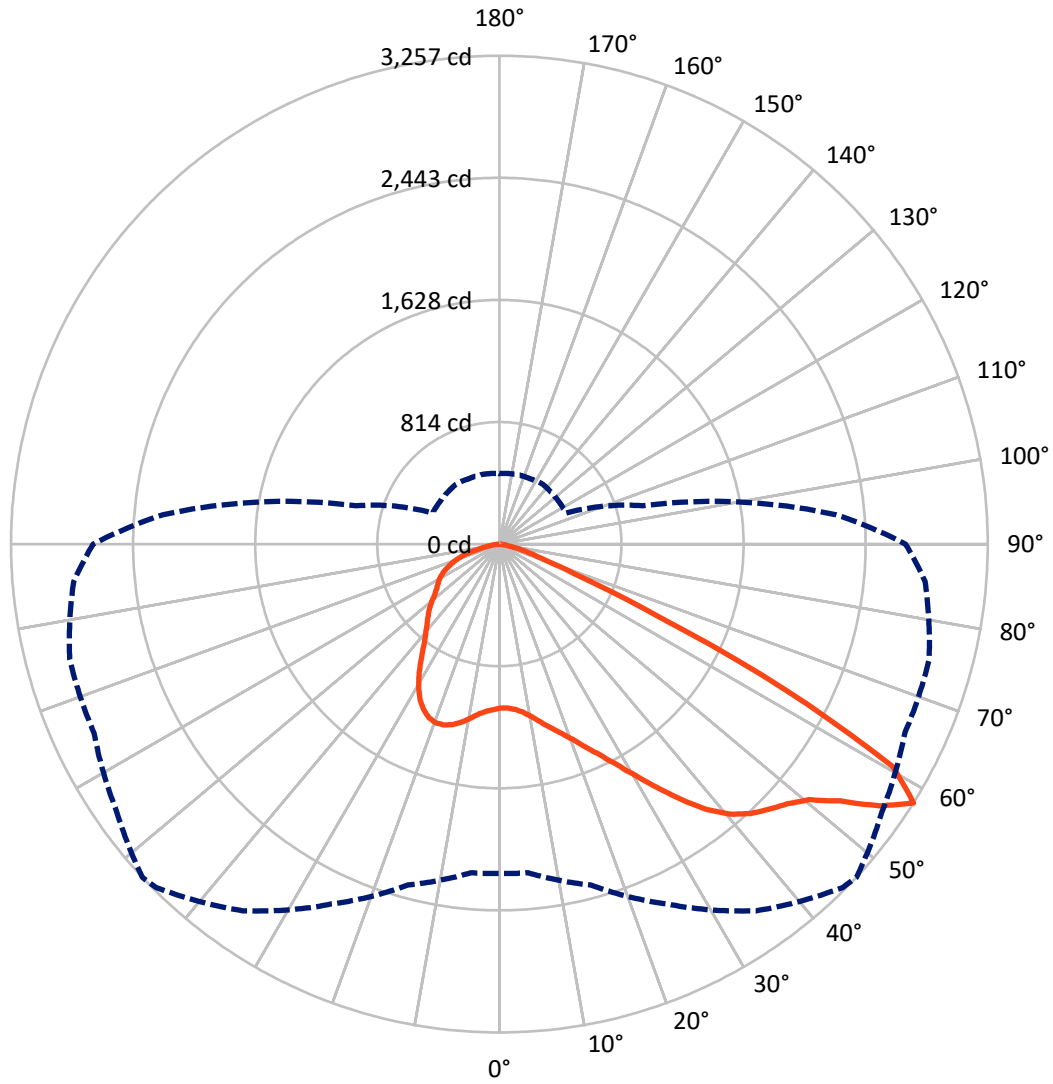
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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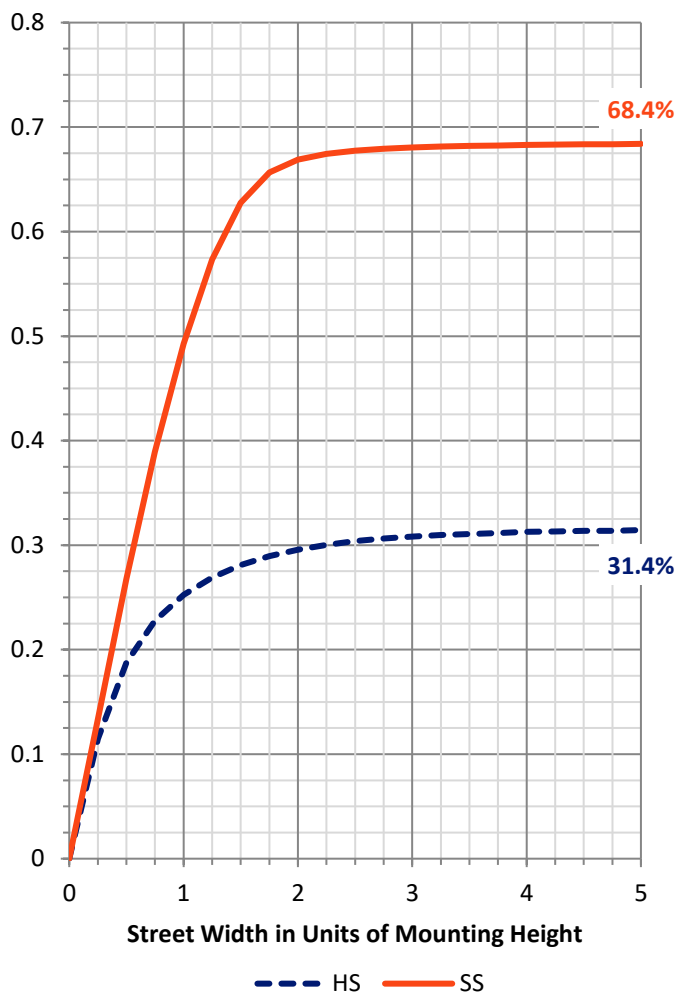
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.2	0.0	1864.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4026.0	0.0	4026.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	5890.2	0.0	5890.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.8
10°-20°	354.4	6.0
20°-30°	638.1	10.8
30°-40°	963.7	16.4
40°-50°	1297.8	22.0
50°-60°	1559.5	26.5
60°-70°	759.5	12.9
70°-80°	187.1	3.2
80°-90°	22.5	0.4
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°	5890.2	100.0
0°-180°	5890.2	100.0

Coefficient of Utilization



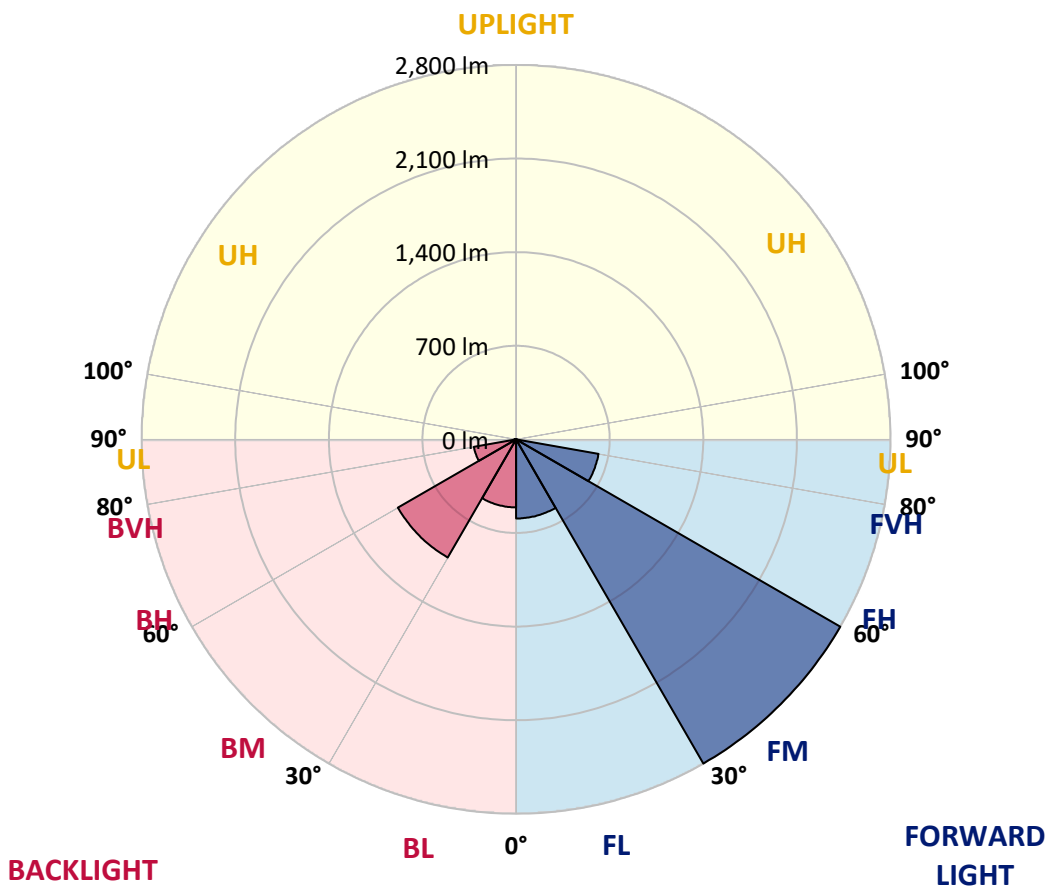
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.6	10.0			
FM (30°-60°)	2799.9	47.5			
FH (60°-80°)	625.9	10.6			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	508.5	8.6	B2/1000		
BM (30°-60°)	1021.0	17.3	B2/2500		
BH (60°-80°)	320.6	5.4	B1/500		G1/500
BVH (80°-90°)	14.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1090.4	1089.9	1089.9	1092.8	1092.8	1093.8	1095.3	1096.8	1097.3	1094.8	1089.4
5°	1102.2	1102.2	1102.2	1104.7	1104.7	1105.7	1107.7	1108.2	1107.7	1103.7	1098.3
7.5°	1121.0	1121.0	1121.5	1124.5	1127.0	1128.5	1131.9	1131.4	1129.9	1123.5	1116.6
10°	1151.7	1153.2	1154.7	1158.1	1163.1	1166.6	1169.0	1169.0	1167.0	1157.2	1148.2
12.5°	1195.2	1197.2	1198.7	1201.7	1205.6	1211.6	1217.0	1217.0	1214.5	1202.2	1188.8
15°	1246.2	1248.2	1247.7	1248.7	1256.1	1264.5	1269.0	1271.9	1272.9	1255.6	1234.8
17.5°	1304.6	1306.6	1304.6	1301.6	1302.6	1316.0	1323.9	1334.8	1341.2	1317.9	1284.8
20°	1357.5	1355.5	1355.5	1357.5	1360.5	1376.8	1388.7	1406.5	1414.4	1386.2	1334.8
22.5°	1413.4	1417.9	1415.9	1415.9	1427.8	1455.0	1469.3	1492.6	1501.0	1464.4	1395.1
25°	1485.7	1489.6	1488.6	1489.6	1503.5	1542.0	1556.4	1599.4	1607.8	1555.4	1461.9
27.5°	1564.8	1571.2	1574.2	1573.2	1595.5	1645.9	1663.7	1723.6	1738.9	1657.3	1533.1
30°	1667.7	1674.6	1677.1	1676.1	1702.3	1771.1	1791.4	1859.7	1881.4	1778.0	1623.7
32.5°	1786.9	1793.9	1801.3	1804.3	1837.9	1908.1	1937.3	2008.1	2039.2	1917.5	1733.0
35°	1905.2	1911.1	1925.5	1948.7	1994.7	2066.5	2092.2	2161.9	2192.1	2062.5	1865.1
37.5°	2035.8	2039.7	2052.1	2084.3	2150.6	2218.8	2244.6	2311.3	2314.8	2202.5	2014.5
40°	2178.8	2178.8	2176.3	2207.9	2277.2	2346.0	2368.2	2406.8	2386.5	2310.4	2160.0
42.5°	2300.0	2298.0	2300.0	2329.6	2381.1	2437.0	2456.3	2448.9	2423.1	2393.0	2291.6
45°	2409.3	2410.8	2428.6	2451.3	2478.1	2511.2	2522.6	2480.5	2457.3	2459.3	2396.9
47.5°	2483.5	2485.0	2526.5	2564.6	2581.0	2591.4	2586.4	2528.0	2516.2	2538.4	2478.1
50°	2493.4	2501.3	2573.0	2651.2	2691.8	2693.3	2679.4	2608.2	2604.7	2629.9	2521.6
52.5°	2495.4	2503.3	2592.8	2733.8	2839.2	2861.5	2845.6	2771.4	2735.3	2710.1	2575.0
55°	2488.0	2496.9	2595.8	2789.2	2991.1	3080.1	3081.6	2976.7	2861.5	2844.7	2727.4
57.5°	2196.6	2200.0	2353.4	2648.2	2985.2	3237.5	3256.8	3114.3	2982.7	2966.8	2849.6
60°	1530.2	1544.0	1710.7	2100.1	2507.7	2952.5	3014.8	2973.3	2885.2	2769.9	2444.9
62.5°	766.3	778.2	945.4	1313.5	1729.5	2080.8	2147.6	2191.6	2212.4	2088.7	1664.7
65°	330.0	338.9	442.8	686.2	979.1	1148.7	1172.0	1224.9	1354.5	1208.6	896.9
67.5°	220.6	226.6	279.5	418.5	576.8	587.7	584.3	595.6	623.8	515.0	405.2
70°	169.2	174.1	209.8	306.7	414.6	354.7	335.9	304.7	331.0	337.4	328.5
72.5°	122.7	126.6	153.4	209.3	259.7	226.6	223.6	239.4	275.1	285.0	279.5
75°	79.2	81.1	97.5	114.8	134.1	145.4	151.4	180.1	216.2	223.6	217.2
77.5°	52.9	54.4	63.8	73.7	76.2	76.7	78.7	91.5	116.3	130.1	128.6
80°	27.7	27.7	31.2	31.2	35.6	42.5	44.5	52.9	64.3	71.2	71.7
82.5°	10.9	11.4	13.4	14.8	17.8	21.8	23.3	27.7	33.6	38.6	43.0
85°	4.5	4.9	5.4	6.4	7.9	9.9	10.4	11.9	15.8	19.8	22.3
87.5°	0.0	0.0	0.5	0.5	1.0	1.5	1.5	2.0	2.5	4.5	5.9
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°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1095.8	1089.4	1095.8	1097.8	1103.2	1105.2	1101.7	1101.3	1101.3	1096.3	1094.8
5°	1103.2	1097.3	1103.7	1106.7	1114.6	1119.6	1120.5	1124.5	1127.0	1125.0	1124.5
7.5°	1121.5	1114.1	1121.0	1125.5	1135.9	1143.8	1147.3	1156.2	1162.6	1161.6	1161.1
10°	1153.7	1143.8	1151.7	1159.1	1170.5	1179.9	1180.4	1185.4	1191.8	1189.8	1188.8
12.5°	1190.8	1181.4	1190.3	1197.7	1211.1	1215.0	1208.6	1206.6	1207.6	1205.1	1203.2
15°	1236.3	1223.0	1230.9	1239.3	1246.7	1242.2	1228.4	1223.0	1222.5	1219.0	1217.0
17.5°	1281.8	1265.0	1270.9	1275.4	1271.9	1258.1	1240.8	1231.4	1226.9	1220.0	1218.0
20°	1326.8	1305.6	1304.6	1301.1	1285.3	1260.1	1236.8	1218.0	1206.6	1197.2	1193.8
22.5°	1378.3	1348.6	1333.8	1317.9	1283.3	1242.2	1207.1	1180.4	1162.1	1150.2	1146.3
25°	1433.7	1391.7	1361.0	1329.3	1263.5	1204.2	1155.2	1118.6	1096.8	1083.9	1079.5
27.5°	1488.6	1430.7	1384.7	1330.8	1223.9	1149.2	1083.4	1034.0	1012.2	1001.8	998.3
30°	1562.8	1482.7	1412.9	1311.5	1172.0	1073.1	990.9	941.0	926.6	919.2	916.2
32.5°	1648.4	1548.5	1450.5	1270.9	1105.7	984.0	897.4	862.8	852.9	838.6	838.1
35°	1761.2	1642.5	1486.1	1211.1	1022.1	888.5	825.7	801.0	783.1	760.4	758.4
37.5°	1892.8	1759.7	1505.4	1134.9	924.6	809.9	772.3	744.6	715.9	685.7	681.7
40°	2028.9	1896.8	1506.9	1044.9	829.2	757.9	726.3	690.1	654.5	620.9	616.4
42.5°	2171.8	2024.4	1480.7	941.0	751.0	712.9	680.7	635.2	595.2	572.4	569.9
45°	2299.5	2127.3	1421.3	831.6	693.1	675.3	634.2	585.3	564.0	547.7	544.2
47.5°	2399.9	2195.6	1341.2	733.7	646.1	636.7	583.3	558.0	541.7	526.9	523.4
50°	2449.4	2210.9	1236.8	654.0	602.6	591.2	554.6	535.3	524.4	512.5	509.6
52.5°	2510.7	2228.2	1146.8	587.2	560.0	544.7	530.8	515.5	507.6	500.2	497.7
55°	2651.7	2293.5	1099.3	533.8	519.5	512.5	510.6	497.7	495.2	490.3	485.8
57.5°	2709.1	2251.5	987.0	490.3	487.3	488.3	493.2	481.4	478.9	473.0	470.0
60°	2178.8	1701.8	668.4	452.7	460.6	467.0	472.0	460.1	456.6	455.6	451.7
62.5°	1396.1	1046.8	466.5	417.5	429.4	437.3	440.3	428.9	426.5	434.4	434.9
65°	726.7	570.4	378.5	379.9	389.8	401.7	407.7	403.7	402.7	411.1	411.6
67.5°	371.0	348.8	330.0	335.4	343.3	358.7	372.5	389.8	395.8	396.8	397.3
70°	316.1	306.2	296.8	300.3	308.7	317.1	330.5	338.9	329.0	326.5	325.5
72.5°	269.1	261.7	257.3	261.2	265.7	264.2	260.2	264.2	265.7	266.2	266.7
75°	209.3	203.8	200.4	200.9	200.9	195.4	188.0	183.5	178.6	174.6	174.6
77.5°	128.1	129.1	132.6	132.1	131.6	129.6	122.2	118.2	106.4	102.9	102.9
80°	73.2	74.7	78.2	79.2	79.2	76.7	69.3	64.8	59.4	56.9	56.4
82.5°	44.5	46.5	48.5	49.5	50.0	47.0	40.6	37.1	34.1	31.7	31.7
85°	23.3	24.2	26.2	26.7	25.2	22.3	18.8	17.3	14.3	13.9	13.9
87.5°	6.4	6.9	7.9	6.4	5.9	4.5	2.5	2.0	1.0	0.5	0.5
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)