

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: STREETWORKS

Report Number: P386629

Luminaire Tested: GAW-SA2B-735-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11125.2 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

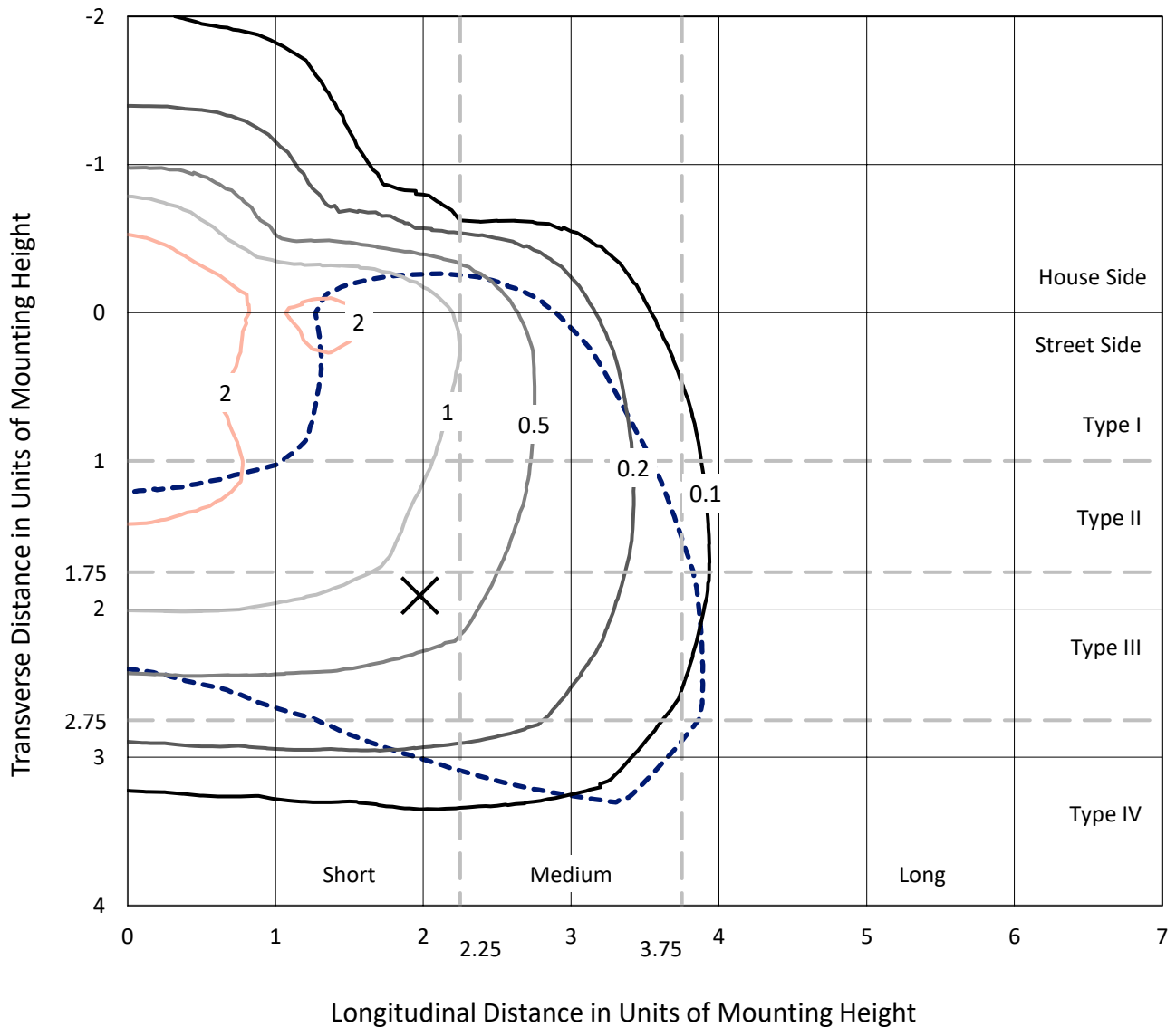
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

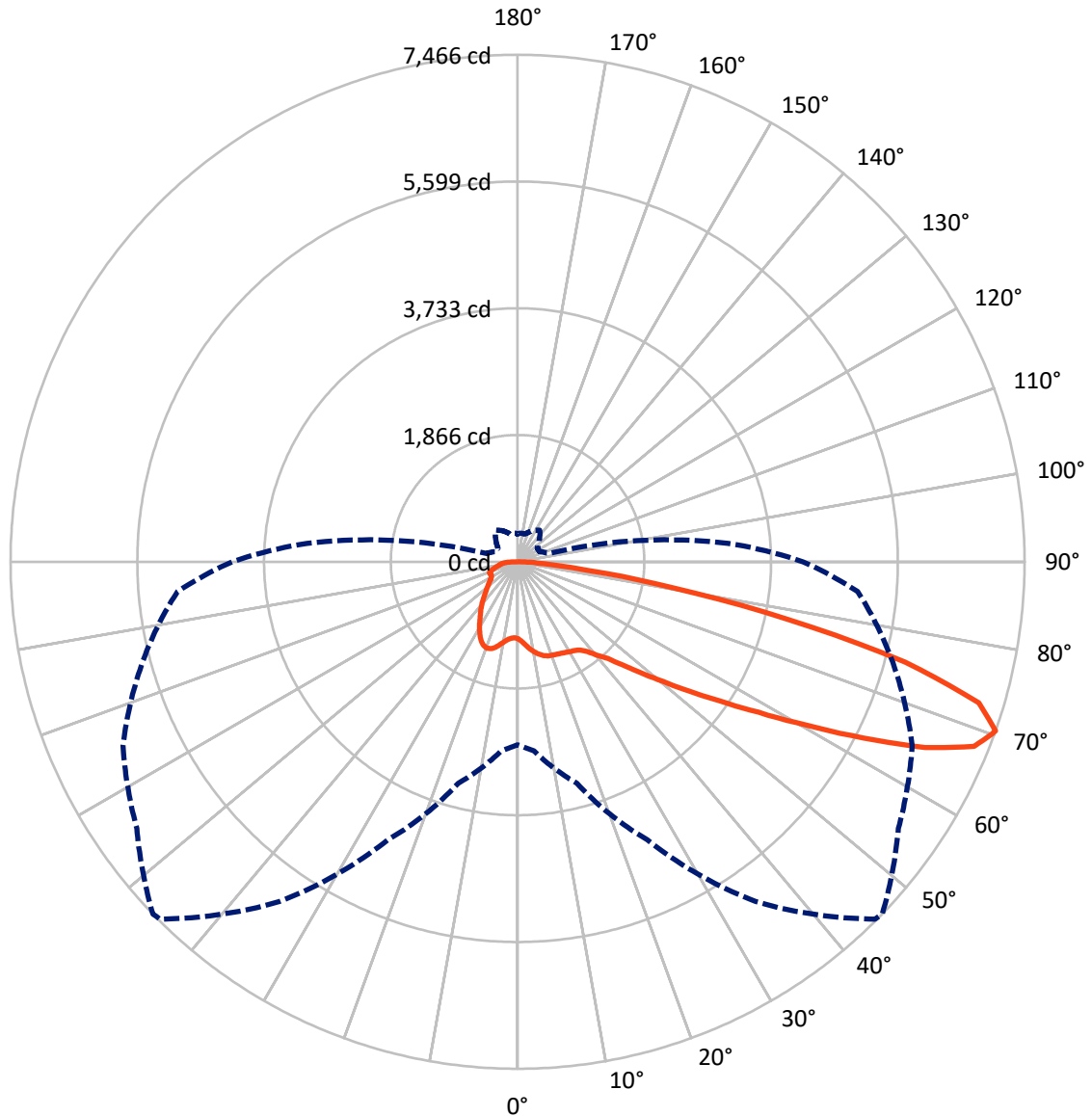
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2549.9	0.0	2549.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8575.4	0.0	8575.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	11125.2	0.0	11125.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	1.0
10°-20°	385.0	3.5
20°-30°	641.9	5.8
30°-40°	910.9	8.2
40°-50°	1339.8	12.0
50°-60°	2269.0	20.4
60°-70°	3220.8	29.0
70°-80°	1956.7	17.6
80°-90°	285.6	2.6
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°	11125.2	100.0
0°-180°	11125.2	100.0

Coefficient of Utilization



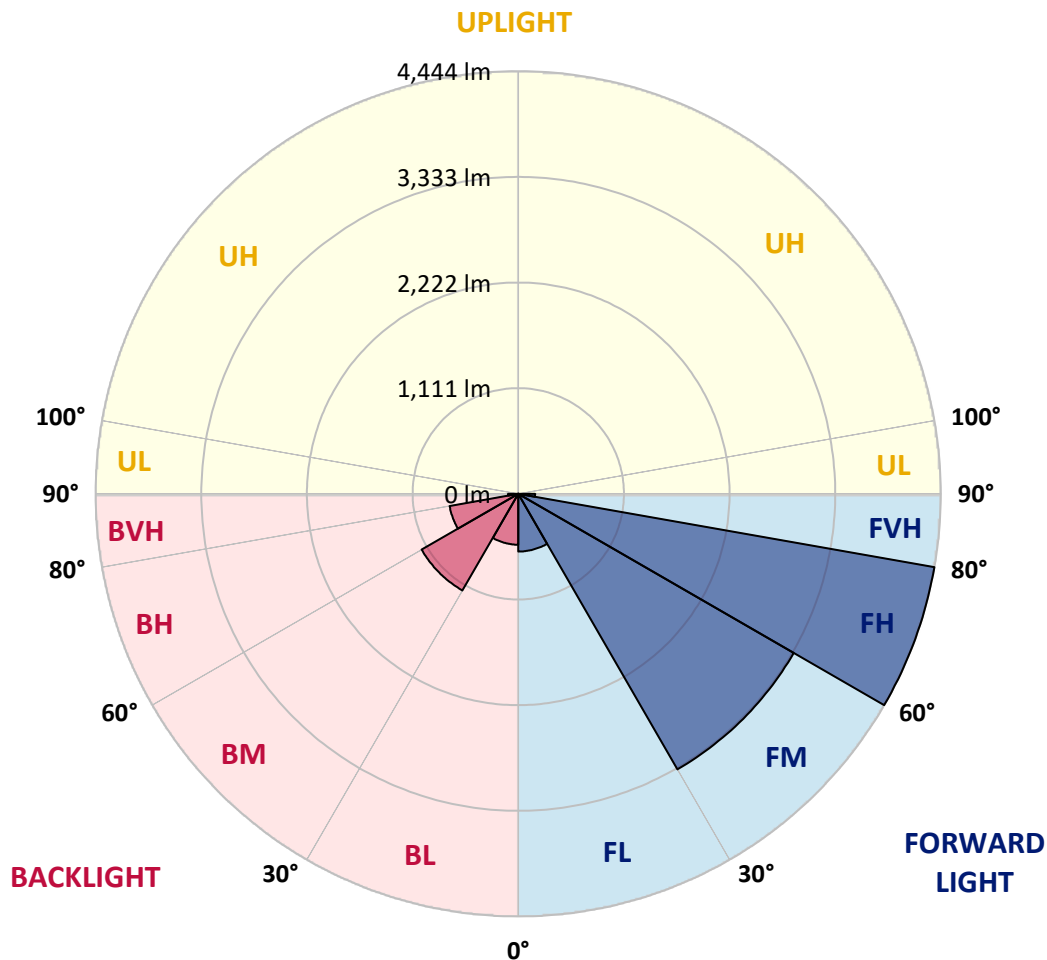
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.0	5.5			
FM (30°-60°)	3346.0	30.1			
FH (60°-80°)	4444.5	39.9			G2/5000
FVH (80°-90°)	177.9	1.6			G2/225
BL (0°-30°)	535.4	4.8	B2/1000		
BM (30°-60°)	1173.8	10.6	B2/2500		
BH (60°-80°)	733.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	107.7	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5
2.5°	1190.2	1191.0	1192.5	1188.6	1178.0	1174.9	1173.8	1162.8	1155.5	1144.8	1135.7
5°	1285.4	1286.1	1283.9	1273.2	1249.6	1232.0	1230.5	1205.4	1182.6	1158.2	1140.0
7.5°	1384.8	1385.9	1378.7	1358.5	1325.3	1294.9	1293.0	1258.7	1224.0	1187.1	1159.7
10°	1472.7	1468.1	1456.3	1428.2	1388.9	1351.6	1350.1	1314.3	1274.3	1229.8	1193.2
12.5°	1531.3	1527.5	1512.2	1478.0	1435.0	1400.7	1397.6	1364.6	1325.7	1277.0	1233.2
15°	1563.7	1566.3	1545.8	1507.0	1465.1	1436.1	1433.4	1409.8	1375.2	1326.1	1275.9
17.5°	1567.8	1570.1	1550.4	1511.9	1477.7	1457.8	1456.7	1441.1	1415.9	1368.7	1316.2
20°	1543.5	1545.0	1528.7	1497.0	1474.6	1468.5	1468.1	1461.2	1442.6	1400.7	1349.7
22.5°	1508.1	1509.2	1497.4	1474.6	1467.0	1476.4	1479.2	1476.4	1463.2	1423.9	1375.9
25°	1499.4	1498.5	1486.4	1463.2	1469.6	1489.8	1493.3	1494.4	1485.3	1451.0	1409.5
27.5°	1541.5	1538.9	1515.7	1478.4	1482.6	1507.0	1511.5	1522.6	1516.8	1486.8	1447.5
30°	1663.8	1659.3	1611.6	1536.3	1515.7	1528.3	1533.9	1551.5	1552.6	1527.5	1498.1
32.5°	1870.1	1864.4	1779.2	1644.4	1571.7	1550.0	1555.3	1581.6	1595.7	1576.2	1544.6
35°	2130.9	2124.5	2012.6	1828.2	1665.4	1591.4	1595.3	1616.2	1644.4	1617.0	1575.1
37.5°	2402.8	2387.2	2279.4	2044.5	1814.2	1680.2	1680.2	1682.8	1696.2	1639.1	1610.9
40°	2673.1	2657.5	2560.0	2298.9	2006.8	1819.9	1811.2	1752.2	1741.4	1692.3	1682.8
42.5°	2924.4	2919.8	2862.3	2586.3	2233.0	1957.3	1945.2	1845.1	1847.3	1816.9	1817.3
45°	3191.7	3191.7	3144.9	2876.4	2496.4	2178.2	2166.0	2018.7	2041.5	2027.4	2061.3
47.5°	3409.8	3416.7	3410.2	3178.7	2803.0	2458.8	2436.7	2259.2	2323.2	2371.6	2470.2
50°	3632.5	3643.3	3644.4	3510.3	3173.5	2792.3	2767.2	2578.7	2721.5	2860.1	3053.9
52.5°	3955.8	3979.8	3884.2	3841.2	3627.3	3188.3	3163.5	2989.5	3227.9	3422.4	3756.4
55°	4255.5	4234.5	4166.4	4193.0	4113.0	3639.0	3620.4	3467.7	3792.1	4044.9	4478.6
57.5°	4417.7	4416.1	4484.7	4598.9	4636.9	4195.0	4179.3	4030.8	4428.3	4618.3	5156.6
60°	4608.0	4610.6	4780.5	5039.8	5196.6	4887.1	4880.2	4767.5	5046.2	5153.6	5688.5
62.5°	4634.7	4682.7	4975.0	5421.2	5720.5	5695.7	5711.0	5431.2	5599.1	5580.8	6085.7
65°	4328.2	4391.4	4920.6	5536.6	6241.3	6580.3	6594.3	6098.6	6035.0	5945.9	6227.6
67.5°	3700.0	3793.6	4368.6	5285.7	6413.1	7233.9	7253.7	6616.1	6396.7	6069.6	5885.8
70°	2692.6	2796.5	3375.2	4514.4	6107.0	7443.0	7465.5	6844.8	6410.4	5717.4	5024.5
72.5°	1626.5	1708.0	2185.0	3323.4	5154.4	7062.3	7102.2	6554.7	5852.6	4843.0	3710.2
75°	714.2	767.6	1056.5	1915.0	3690.0	5843.1	5893.0	5610.5	4755.4	3519.5	2193.0
77.5°	304.2	319.4	433.2	831.9	2086.0	3992.8	4061.3	4099.3	3226.3	1915.0	926.7
80°	189.6	195.7	245.2	376.5	976.2	2242.5	2316.4	2412.0	1602.1	704.0	323.6
82.5°	115.4	122.2	163.0	227.7	508.3	1016.5	1051.9	1119.4	621.8	304.2	167.5
85°	69.3	74.2	99.8	143.9	289.3	399.8	399.4	441.6	292.8	195.7	88.3
87.5°	33.2	36.9	53.3	74.6	145.8	150.0	140.5	159.1	177.8	128.3	44.5
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°	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5
2.5°	1132.7	1131.1	1126.2	1122.4	1121.6	1119.4	1117.4	1118.6	1120.1	1120.5	1120.5
5°	1132.3	1128.1	1121.6	1119.0	1122.4	1127.0	1132.7	1140.3	1144.8	1148.3	1150.6
7.5°	1150.6	1142.6	1135.4	1133.8	1140.7	1152.8	1165.8	1181.8	1192.8	1200.5	1202.0
10°	1181.0	1171.1	1163.9	1165.4	1177.6	1195.1	1213.4	1234.0	1250.7	1260.9	1261.8
12.5°	1216.0	1206.6	1199.7	1206.2	1226.4	1247.7	1266.7	1284.6	1299.8	1310.1	1310.1
15°	1256.4	1249.6	1241.6	1256.4	1283.9	1302.8	1310.8	1319.7	1328.0	1335.6	1334.1
17.5°	1295.2	1288.8	1284.6	1302.1	1330.7	1339.4	1334.1	1327.6	1327.6	1331.8	1332.5
20°	1328.8	1323.0	1325.7	1342.9	1357.7	1348.6	1328.8	1308.2	1299.8	1302.1	1304.3
22.5°	1358.1	1355.5	1363.4	1371.4	1360.7	1328.8	1292.2	1264.4	1254.1	1253.3	1254.1
25°	1392.4	1392.0	1401.9	1387.4	1340.1	1281.1	1232.0	1205.1	1199.3	1203.8	1211.5
27.5°	1435.0	1439.2	1444.1	1391.2	1298.3	1209.2	1159.3	1140.7	1146.4	1157.4	1164.7
30°	1489.4	1500.9	1490.2	1381.7	1238.1	1127.0	1079.4	1074.0	1089.7	1105.3	1112.9
32.5°	1542.4	1560.2	1534.3	1357.0	1160.4	1039.8	1002.9	1001.3	1020.4	1035.6	1046.3
35°	1585.0	1620.4	1567.5	1307.8	1070.6	959.4	932.4	922.1	929.0	946.9	959.0
37.5°	1640.6	1699.6	1590.3	1232.9	973.1	893.2	861.6	838.0	831.9	839.2	845.3
40°	1742.2	1820.3	1601.0	1128.1	878.0	826.9	795.0	760.3	736.3	718.8	719.2
42.5°	1908.2	1977.5	1594.2	1000.9	790.0	762.2	726.1	686.0	647.2	607.7	604.6
45°	2177.8	2211.3	1573.6	866.2	712.7	694.5	660.6	620.6	568.8	523.9	519.7
47.5°	2609.2	2535.0	1541.5	748.5	644.6	637.0	605.7	559.7	504.8	468.7	465.7
50°	3197.4	3002.1	1526.0	654.9	584.4	586.7	561.2	512.4	460.7	434.0	431.0
52.5°	3901.0	3546.1	1556.0	582.5	536.1	544.1	525.0	479.4	436.0	415.0	411.9
55°	4630.8	4109.7	1588.4	530.0	490.4	506.0	499.5	461.8	422.6	403.2	400.6
57.5°	5255.6	4530.3	1523.7	487.4	449.7	474.0	479.7	450.8	415.8	398.2	395.2
60°	5649.0	4699.8	1353.9	447.3	417.3	448.5	468.3	447.7	418.4	416.9	414.6
62.5°	5835.5	4684.9	1099.2	415.8	397.1	437.5	476.6	464.9	448.8	462.6	463.8
65°	5751.7	4461.1	818.6	394.8	382.6	441.6	501.8	497.2	457.7	471.4	473.3
67.5°	5200.5	3926.9	606.1	376.5	366.6	453.4	547.5	507.9	440.5	450.4	444.3
70°	4203.3	3113.2	467.5	356.0	350.3	451.9	568.1	501.4	421.9	424.1	407.8
72.5°	2898.5	2122.9	380.4	337.0	326.6	411.9	553.6	485.5	406.3	388.7	367.0
75°	1576.2	1139.6	323.2	317.1	285.2	361.7	526.9	474.0	392.2	368.9	356.8
77.5°	620.2	472.9	280.6	290.1	249.4	319.4	497.2	452.3	372.8	342.3	336.2
80°	253.2	241.4	232.6	250.9	214.4	279.5	461.4	426.8	349.5	317.5	305.3
82.5°	143.5	150.0	180.8	198.0	174.0	257.4	444.3	406.3	321.7	284.4	270.0
85°	73.5	87.9	126.1	142.0	127.9	218.9	409.3	355.6	258.1	217.8	218.9
87.5°	35.4	49.1	79.6	89.1	83.0	158.4	305.8	257.8	201.0	159.1	154.2
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)