

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319036

Luminaire Tested: **GAN-SA2B-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319036
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 11610 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

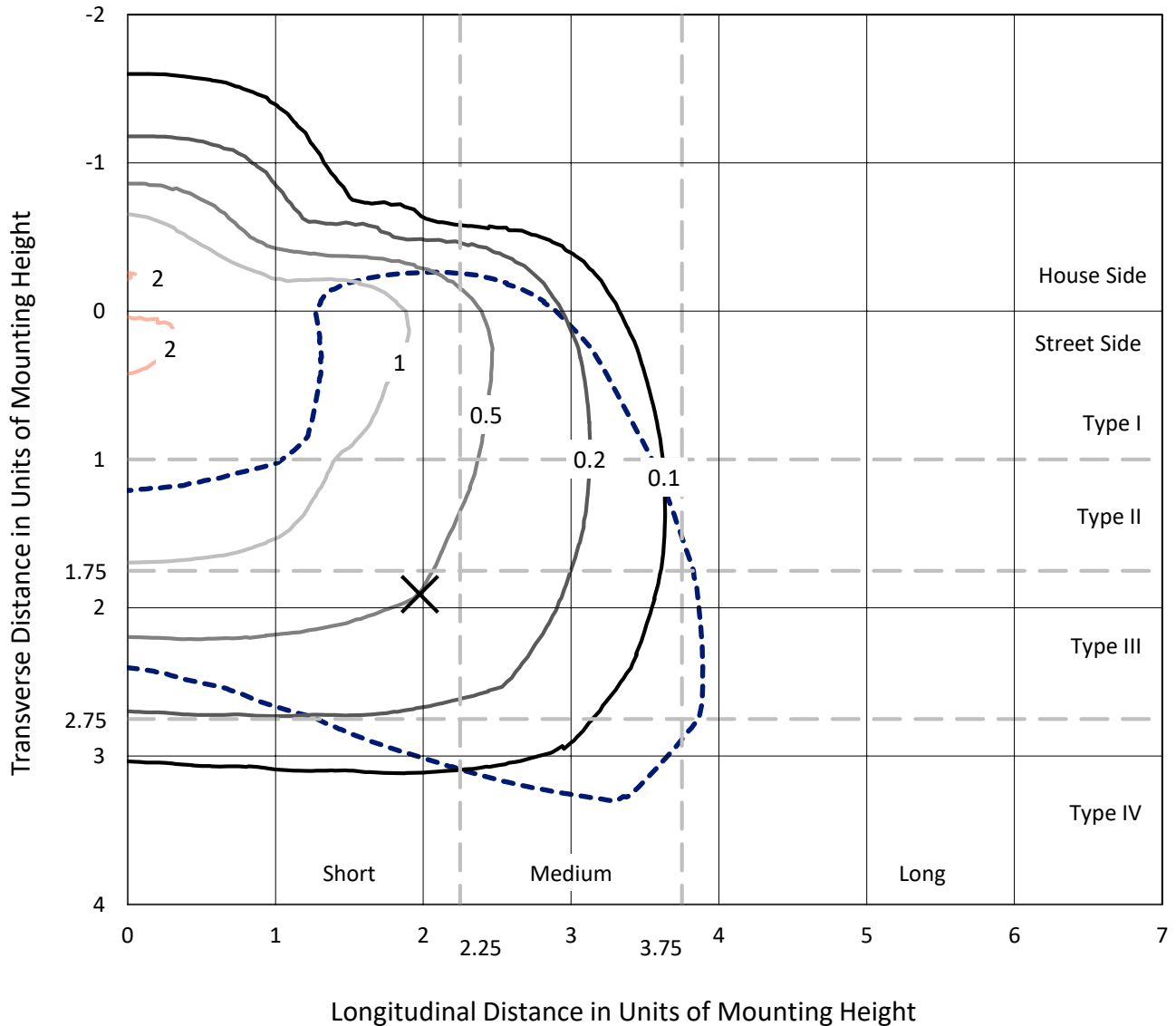
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

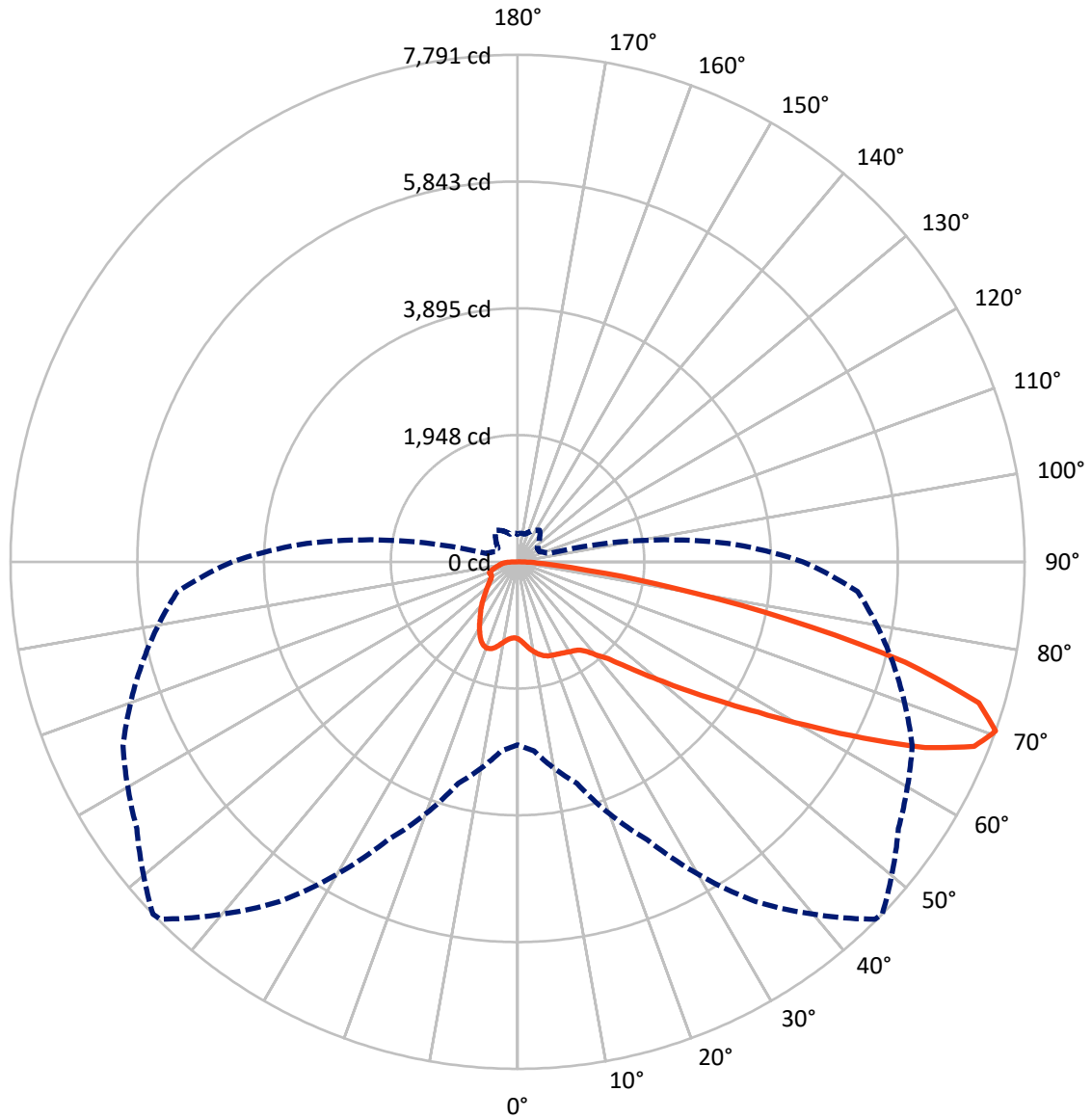
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	2661.0	0.0	2661.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8949.0	0.0	8949.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	11610.0	0.0	11610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	1.0
10°-20°	401.7	3.5
20°-30°	669.9	5.8
30°-40°	950.6	8.2
40°-50°	1398.2	12.0
50°-60°	2367.9	20.4
60°-70°	3361.2	29.0
70°-80°	2042.0	17.6
80°-90°	298.0	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°	11610.0	100.0
0°-180°	11610.0	100.0

Coefficient of Utilization



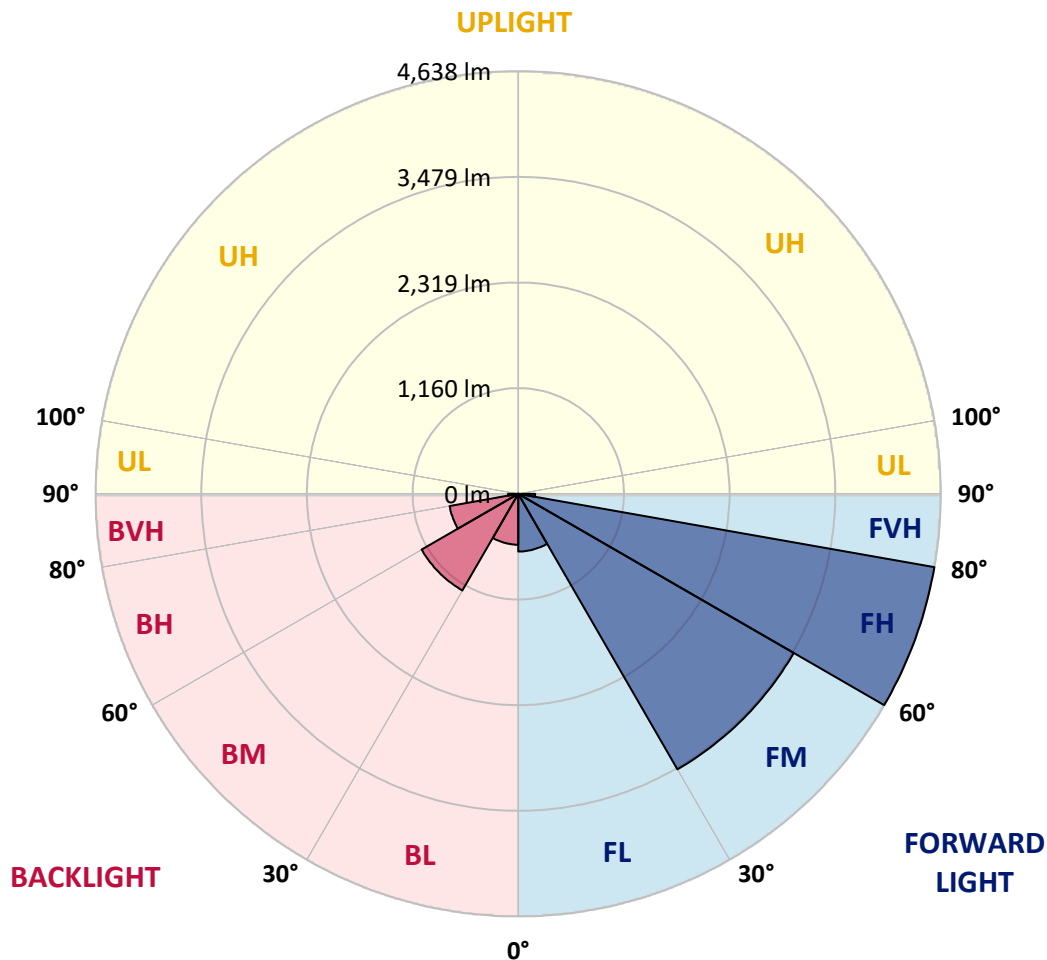
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.5	5.5			
FM (30°-60°)	3491.8	30.1			
FH (60°-80°)	4638.1	39.9			G2/5000
FVH (80°-90°)	185.6	1.6			G2/225
BL (0°-30°)	558.7	4.8	B2/1000		
BM (30°-60°)	1224.9	10.6	B2/2500		
BH (60°-80°)	765.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	112.4	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°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1242.0	1242.8	1244.4	1240.4	1229.3	1226.1	1224.9	1213.4	1205.9	1194.8	1185.2
5°	1341.4	1342.2	1339.8	1328.6	1304.0	1285.7	1284.1	1257.9	1234.1	1208.7	1189.6
7.5°	1445.1	1446.3	1438.7	1417.6	1383.1	1351.3	1349.3	1313.6	1277.4	1238.9	1210.2
10°	1536.8	1532.1	1519.8	1490.4	1449.4	1410.5	1408.9	1371.6	1329.8	1283.4	1245.2
12.5°	1598.0	1594.1	1578.2	1542.4	1497.5	1461.8	1458.6	1424.0	1383.5	1332.6	1286.9
15°	1631.8	1634.6	1613.1	1572.6	1528.9	1498.7	1495.9	1471.3	1435.1	1383.9	1331.4
17.5°	1636.2	1638.6	1617.9	1577.8	1542.0	1521.4	1520.2	1503.9	1477.6	1428.4	1373.5
20°	1610.7	1612.3	1595.3	1562.3	1538.8	1532.5	1532.1	1524.9	1505.5	1461.8	1408.5
22.5°	1573.8	1575.0	1562.7	1538.8	1530.9	1540.8	1543.6	1540.8	1526.9	1486.0	1435.9
25°	1564.7	1563.9	1551.2	1526.9	1533.7	1554.7	1558.3	1559.5	1550.0	1514.2	1470.9
27.5°	1608.8	1606.0	1581.7	1542.8	1547.2	1572.6	1577.4	1588.9	1582.9	1551.5	1510.6
30°	1736.3	1731.5	1681.9	1603.2	1581.7	1594.9	1600.8	1619.1	1620.3	1594.1	1563.5
32.5°	1951.7	1945.7	1856.7	1716.0	1640.2	1617.5	1623.1	1650.5	1665.2	1644.9	1611.9
35°	2223.8	2217.1	2100.3	1907.9	1737.9	1660.8	1664.8	1686.6	1716.0	1687.4	1643.7
37.5°	2507.5	2491.2	2378.8	2133.6	1893.2	1753.4	1753.4	1756.2	1770.1	1710.5	1681.1
40°	2789.6	2773.3	2671.6	2399.0	2094.3	1899.2	1890.1	1828.5	1817.4	1766.1	1756.2
42.5°	3051.8	3047.1	2987.1	2699.0	2330.3	2042.6	2029.9	1925.4	1927.8	1896.0	1896.4
45°	3330.8	3330.8	3281.9	3001.8	2605.2	2273.1	2260.4	2106.6	2130.4	2115.7	2151.1
47.5°	3558.4	3565.6	3558.8	3317.3	2925.1	2565.9	2542.9	2357.7	2424.5	2474.9	2577.8
50°	3790.9	3802.0	3803.2	3663.3	3311.7	2914.0	2887.7	2691.1	2840.1	2984.7	3186.9
52.5°	4128.2	4153.2	4053.5	4008.6	3785.3	3327.2	3301.4	3119.8	3368.5	3571.5	3920.0
55°	4440.9	4419.0	4347.9	4375.7	4292.3	3797.6	3778.1	3618.8	3957.3	4221.2	4673.7
57.5°	4610.1	4608.6	4680.1	4799.3	4839.0	4377.7	4361.4	4206.5	4621.3	4819.5	5381.3
60°	4808.8	4811.6	4988.8	5259.4	5423.1	5100.0	5092.9	4975.3	5266.1	5378.2	5936.4
62.5°	4836.6	4886.7	5191.8	5657.5	5969.8	5944.0	5959.9	5667.8	5843.0	5824.0	6350.8
65°	4516.8	4582.7	5135.0	5777.9	6513.3	6866.9	6881.6	6364.3	6298.0	6205.0	6499.0
67.5°	3861.2	3958.9	4558.9	5516.0	6692.5	7549.1	7569.8	6904.3	6675.4	6334.1	6142.2
70°	2809.9	2918.3	3522.3	4711.1	6373.1	7767.3	7790.7	7143.1	6689.7	5966.6	5243.5
72.5°	1697.4	1782.4	2280.2	3468.2	5379.0	7370.0	7411.7	6840.3	6107.7	5054.0	3871.9
75°	745.4	801.0	1102.6	1998.5	3850.9	6097.7	6149.8	5855.0	4962.6	3672.9	2288.6
77.5°	317.5	333.4	452.2	868.2	2176.9	4166.7	4238.2	4278.0	3366.9	1998.5	967.1
80°	197.9	204.2	255.9	393.0	1018.7	2340.2	2417.3	2517.0	1671.9	734.7	337.7
82.5°	120.4	127.5	170.1	237.6	530.4	1060.9	1097.8	1168.1	648.8	317.5	174.8
85°	72.3	77.5	104.1	150.2	302.0	417.2	416.8	460.9	305.5	204.2	92.2
87.5°	34.6	38.5	55.6	77.9	152.2	156.5	146.6	166.1	185.6	133.9	46.5
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°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1182.0	1180.4	1175.3	1171.3	1170.5	1168.1	1166.1	1167.3	1168.9	1169.3	1169.3
5°	1181.6	1177.3	1170.5	1167.7	1171.3	1176.1	1182.0	1190.0	1194.8	1198.3	1200.7
7.5°	1200.7	1192.4	1184.8	1183.2	1190.4	1203.1	1216.6	1233.3	1244.8	1252.8	1254.3
10°	1232.5	1222.2	1214.6	1216.2	1228.9	1247.2	1266.3	1287.7	1305.2	1315.9	1316.7
12.5°	1269.1	1259.1	1252.0	1258.7	1279.8	1302.0	1321.9	1340.6	1356.5	1367.2	1367.2
15°	1311.2	1304.0	1295.7	1311.2	1339.8	1359.6	1368.0	1377.1	1385.9	1393.8	1392.2
17.5°	1351.7	1344.9	1340.6	1358.8	1388.6	1397.8	1392.2	1385.5	1385.5	1389.8	1390.6
20°	1386.7	1380.7	1383.5	1401.4	1416.9	1407.3	1386.7	1365.2	1356.5	1358.8	1361.2
22.5°	1417.3	1414.5	1422.8	1431.2	1420.0	1386.7	1348.5	1319.5	1308.8	1308.0	1308.8
25°	1453.0	1452.6	1462.9	1447.8	1398.6	1337.0	1285.7	1257.5	1251.6	1256.3	1264.3
27.5°	1497.5	1501.9	1507.0	1451.8	1354.9	1261.9	1209.8	1190.4	1196.3	1207.9	1215.4
30°	1554.3	1566.2	1555.1	1441.9	1292.1	1176.1	1126.4	1120.8	1137.1	1153.4	1161.4
32.5°	1609.6	1628.2	1601.2	1416.1	1211.0	1085.1	1046.5	1045.0	1064.8	1080.7	1091.8
35°	1654.1	1691.0	1635.8	1364.8	1117.3	1001.3	973.0	962.3	969.5	988.1	1000.9
37.5°	1712.1	1773.7	1659.6	1286.5	1015.6	932.1	899.1	874.5	868.2	875.7	882.1
40°	1818.2	1899.6	1670.7	1177.3	916.2	863.0	829.6	793.5	768.4	750.1	750.5
42.5°	1991.4	2063.7	1663.6	1044.6	824.4	795.4	757.7	716.0	675.4	634.1	630.9
45°	2272.7	2307.7	1642.1	903.9	743.8	724.7	689.4	647.6	593.6	546.7	542.3
47.5°	2722.9	2645.4	1608.8	781.1	672.7	664.7	632.1	584.1	526.9	489.1	485.9
50°	3336.7	3132.9	1592.5	683.4	609.9	612.3	585.7	534.8	480.8	452.9	449.8
52.5°	4071.0	3700.7	1623.9	607.9	559.4	567.8	547.9	500.2	454.9	433.1	429.9
55°	4832.6	4288.7	1657.6	553.1	511.8	528.0	521.3	482.0	441.0	420.8	418.0
57.5°	5484.7	4727.8	1590.1	508.6	469.2	494.7	500.6	470.4	433.9	415.6	412.4
60°	5895.1	4904.6	1412.9	466.9	435.5	468.0	488.7	467.3	436.7	435.1	432.7
62.5°	6089.8	4889.1	1147.1	433.9	414.4	456.5	497.4	485.1	468.4	482.7	483.9
65°	6002.4	4655.4	854.2	412.0	399.3	460.9	523.7	518.9	477.6	491.9	493.9
67.5°	5427.0	4098.0	632.5	393.0	382.6	473.2	571.4	530.0	459.7	470.0	463.7
70°	4386.5	3248.9	487.9	371.5	365.5	471.6	592.8	523.3	440.2	442.6	425.5
72.5°	3024.8	2215.5	396.9	351.6	340.9	429.9	577.7	506.6	423.9	405.7	383.0
75°	1644.9	1189.2	337.3	331.0	297.6	377.5	549.9	494.7	409.2	385.0	372.3
77.5°	647.2	493.5	292.8	302.8	260.2	333.4	518.9	472.0	389.0	357.2	350.8
80°	264.2	251.9	242.8	261.8	223.7	291.6	481.6	445.4	364.7	331.4	318.7
82.5°	149.8	156.5	188.7	206.6	181.6	268.6	463.7	423.9	335.7	296.8	281.7
85°	76.7	91.8	131.5	148.2	133.5	228.5	427.1	371.1	269.4	227.3	228.5
87.5°	37.0	51.3	83.0	93.0	86.6	165.3	319.1	269.0	209.8	166.1	160.9
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)