

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: P318987

Luminaire Tested: **GAN-SA3A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318987
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-SA3A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12865 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

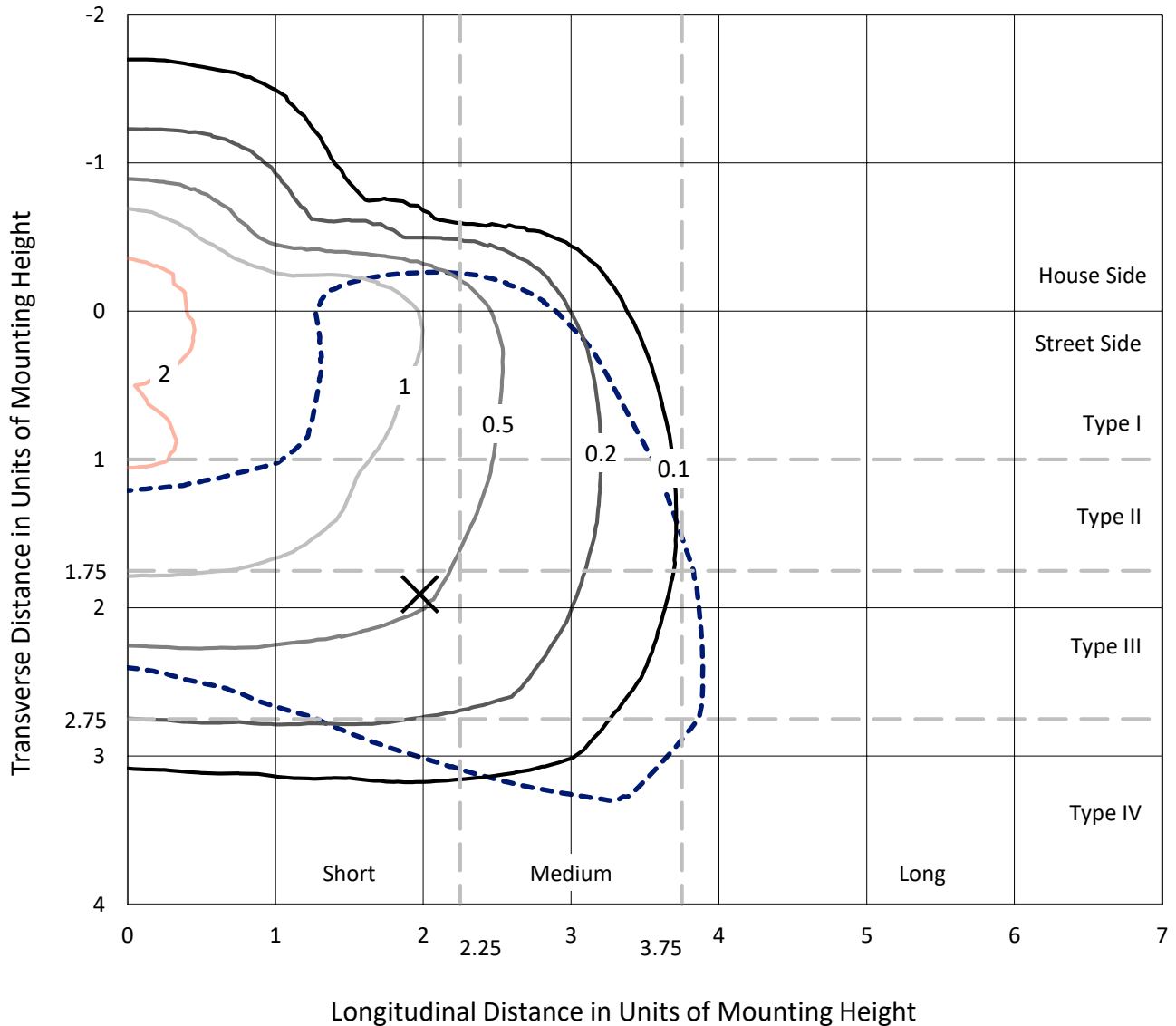
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

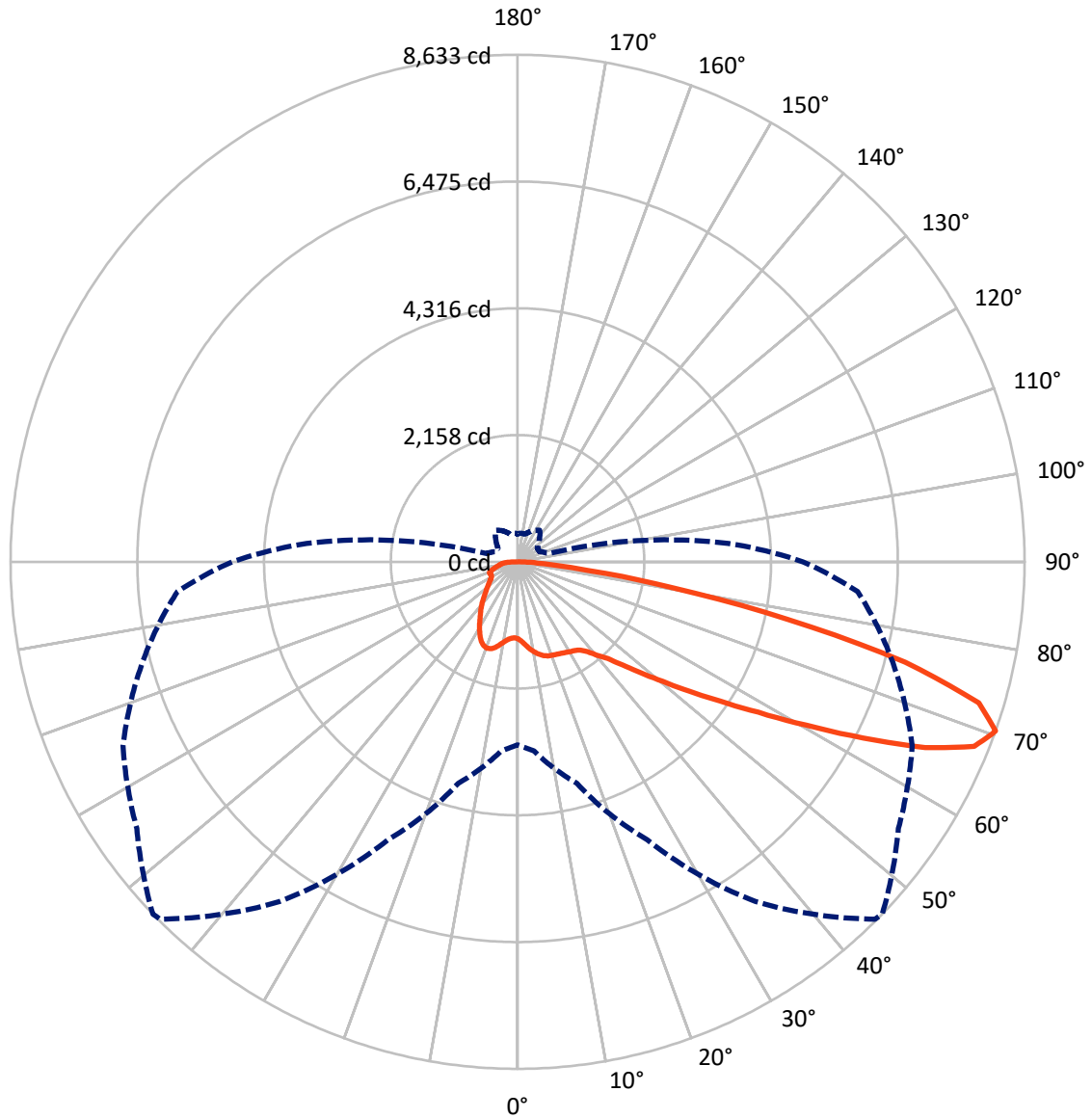
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	2948.6	0.0	2948.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9916.4	0.0	9916.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	12865.0	0.0	12865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.0
10°-20°	445.2	3.5
20°-30°	742.3	5.8
30°-40°	1053.3	8.2
40°-50°	1549.4	12.0
50°-60°	2623.9	20.4
60°-70°	3724.5	29.0
70°-80°	2262.7	17.6
80°-90°	330.2	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°	12865.0	100.0
0°-180°	12865.0	100.0

Coefficient of Utilization



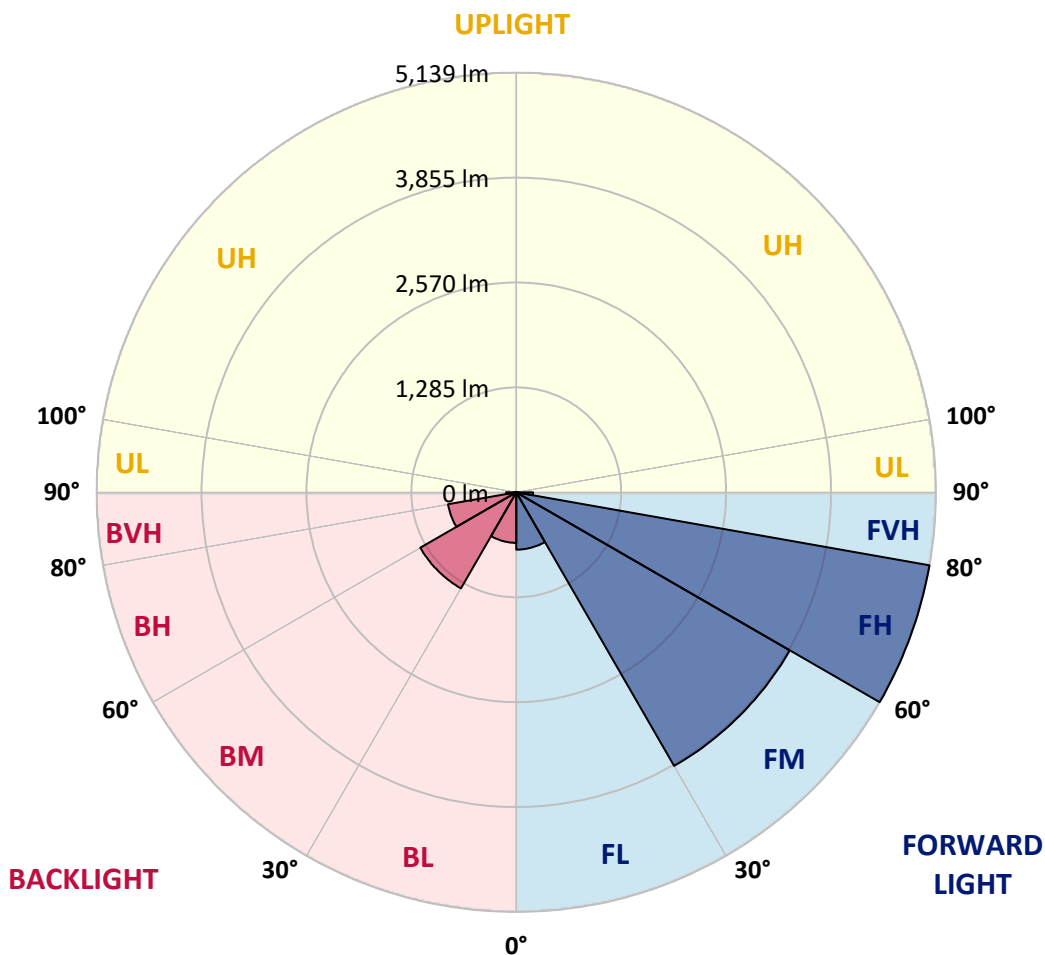
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.0	5.5			
FM (30°-60°)	3869.2	30.1			
FH (60°-80°)	5139.5	39.9			G3/7500
FVH (80°-90°)	205.7	1.6			G2/225
BL (0°-30°)	619.1	4.8	B2/1000		
BM (30°-60°)	1357.3	10.6	B2/2500		
BH (60°-80°)	847.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	124.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7
2.5°	1376.3	1377.2	1378.9	1374.5	1362.2	1358.7	1357.4	1344.6	1336.2	1323.9	1313.3
5°	1486.4	1487.2	1484.6	1472.3	1445.0	1424.7	1423.0	1393.9	1367.5	1339.3	1318.2
7.5°	1601.3	1602.6	1594.2	1570.9	1532.6	1497.4	1495.2	1455.5	1415.5	1372.8	1341.1
10°	1703.0	1697.7	1684.0	1651.5	1606.1	1563.0	1561.2	1519.8	1473.6	1422.1	1379.8
12.5°	1770.8	1766.4	1748.8	1709.1	1659.4	1619.8	1616.2	1577.9	1533.0	1476.7	1426.0
15°	1808.2	1811.3	1787.5	1742.6	1694.2	1660.7	1657.6	1630.3	1590.3	1533.5	1475.4
17.5°	1813.0	1815.7	1792.8	1748.3	1708.7	1685.8	1684.5	1666.4	1637.4	1582.8	1522.0
20°	1784.9	1786.6	1767.7	1731.2	1705.2	1698.1	1697.7	1689.8	1668.2	1619.8	1560.8
22.5°	1743.9	1745.2	1731.6	1705.2	1696.4	1707.4	1710.5	1707.4	1692.0	1646.6	1591.1
25°	1733.8	1732.9	1718.8	1692.0	1699.5	1722.8	1726.7	1728.1	1717.5	1677.9	1629.9
27.5°	1782.7	1779.6	1752.7	1709.6	1714.4	1742.6	1747.9	1760.7	1754.0	1719.3	1673.9
30°	1924.0	1918.7	1863.7	1776.5	1752.7	1767.3	1773.9	1794.1	1795.4	1766.4	1732.5
32.5°	2162.6	2156.0	2057.4	1901.5	1817.4	1792.3	1798.5	1828.9	1845.2	1822.7	1786.2
35°	2464.2	2456.7	2327.3	2114.2	1925.8	1840.3	1844.7	1869.0	1901.5	1869.8	1821.4
37.5°	2778.6	2760.5	2635.9	2364.3	2097.9	1942.9	1942.9	1946.0	1961.4	1895.4	1862.8
40°	3091.2	3073.1	2960.4	2658.4	2320.7	2104.5	2094.4	2026.1	2013.8	1957.0	1946.0
42.5°	3381.7	3376.5	3310.0	2990.8	2582.2	2263.4	2249.4	2133.6	2136.2	2101.0	2101.4
45°	3690.8	3690.8	3636.7	3326.3	2886.9	2518.8	2504.7	2334.3	2360.7	2344.5	2383.6
47.5°	3943.1	3951.0	3943.5	3675.8	3241.3	2843.3	2817.7	2612.6	2686.5	2742.5	2856.5
50°	4200.6	4213.0	4214.3	4059.3	3669.7	3229.0	3199.9	2982.0	3147.1	3307.3	3531.4
52.5°	4574.4	4602.2	4491.7	4441.9	4194.5	3686.8	3658.2	3457.0	3732.6	3957.6	4343.7
55°	4920.9	4896.7	4817.9	4848.7	4756.3	4208.1	4186.6	4010.0	4385.1	4677.5	5178.9
57.5°	5108.5	5106.7	5186.0	5318.1	5362.1	4850.9	4832.9	4661.2	5120.8	5340.5	5963.1
60°	5328.6	5331.7	5528.1	5827.9	6009.3	5651.3	5643.4	5513.1	5835.4	5959.5	6578.1
62.5°	5359.4	5414.9	5753.0	6269.0	6615.1	6586.5	6604.1	6280.5	6474.6	6453.5	7037.3
65°	5005.0	5078.1	5690.1	6402.4	7217.4	7609.2	7625.5	7052.3	6978.8	6875.7	7201.5
67.5°	4278.6	4386.9	5051.7	6112.3	7416.0	8365.2	8388.1	7650.6	7397.0	7018.8	6806.2
70°	3113.6	3233.8	3903.0	5220.3	7062.0	8606.9	8632.9	7915.2	7412.9	6611.6	5810.3
72.5°	1880.8	1975.1	2526.7	3843.1	5960.4	8166.6	8212.8	7579.7	6767.9	5600.3	4290.5
75°	826.0	887.6	1221.8	2214.6	4267.1	6756.9	6814.5	6487.9	5499.0	4069.9	2536.0
77.5°	351.8	369.4	501.0	962.0	2412.3	4617.1	4696.4	4740.4	3730.9	2214.6	1071.6
80°	219.3	226.3	283.5	435.4	1128.9	2593.2	2678.6	2789.1	1852.7	814.1	374.2
82.5°	133.4	141.3	188.4	263.3	587.8	1175.5	1216.5	1294.4	719.0	351.8	193.7
85°	80.1	85.9	115.4	166.4	334.6	462.3	461.8	510.7	338.6	226.3	102.1
87.5°	38.3	42.7	61.6	86.3	168.6	173.5	162.5	184.0	205.6	148.4	51.5
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°	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7
2.5°	1309.8	1308.1	1302.3	1297.9	1297.0	1294.4	1292.2	1293.5	1295.3	1295.7	1295.7
5°	1309.4	1304.5	1297.0	1294.0	1297.9	1303.2	1309.8	1318.6	1323.9	1327.9	1330.5
7.5°	1330.5	1321.3	1312.9	1311.1	1319.1	1333.1	1348.1	1366.6	1379.4	1388.2	1389.9
10°	1365.7	1354.3	1345.9	1347.7	1361.8	1382.0	1403.1	1426.9	1446.3	1458.2	1459.1
12.5°	1406.2	1395.2	1387.3	1394.8	1418.1	1442.8	1464.8	1485.5	1503.1	1515.0	1515.0
15°	1452.9	1445.0	1435.7	1452.9	1484.6	1506.6	1515.9	1526.0	1535.7	1544.5	1542.7
17.5°	1497.8	1490.3	1485.5	1505.7	1538.8	1548.9	1542.7	1535.2	1535.2	1540.1	1541.0
20°	1536.6	1529.9	1533.0	1552.8	1570.0	1559.4	1536.6	1512.8	1503.1	1505.7	1508.4
22.5°	1570.5	1567.4	1576.6	1585.9	1573.5	1536.6	1494.3	1462.1	1450.3	1449.4	1450.3
25°	1610.1	1609.6	1621.1	1604.4	1549.8	1481.5	1424.7	1393.5	1386.9	1392.1	1400.9
27.5°	1659.4	1664.2	1670.0	1608.8	1501.3	1398.3	1340.6	1319.1	1325.7	1338.4	1346.8
30°	1722.3	1735.6	1723.2	1597.7	1431.8	1303.2	1248.2	1242.0	1260.1	1278.1	1286.9
32.5°	1783.5	1804.2	1774.3	1569.1	1342.0	1202.4	1159.7	1157.9	1179.9	1197.5	1209.9
35°	1832.9	1873.8	1812.6	1512.3	1238.0	1109.5	1078.2	1066.3	1074.3	1095.0	1109.0
37.5°	1897.1	1965.4	1839.0	1425.6	1125.3	1032.9	996.3	969.0	962.0	970.4	977.4
40°	2014.7	2104.9	1851.3	1304.5	1015.3	956.3	919.3	879.2	851.5	831.2	831.7
42.5°	2206.6	2286.8	1843.4	1157.5	913.6	881.4	839.6	793.4	748.5	702.7	699.2
45°	2518.4	2557.1	1819.6	1001.6	824.2	803.1	763.9	717.6	657.8	605.8	601.0
47.5°	3017.2	2931.3	1782.7	865.6	745.4	736.6	700.5	647.2	583.8	542.0	538.5
50°	3697.4	3471.5	1764.6	757.3	675.8	678.5	649.0	592.6	532.7	501.9	498.4
52.5°	4511.0	4100.7	1799.4	673.6	619.9	629.1	607.1	554.3	504.1	479.9	476.4
55°	5355.0	4752.3	1836.8	612.9	567.1	585.1	577.6	534.1	488.7	466.2	463.2
57.5°	6077.5	5238.8	1762.0	563.5	520.0	548.1	554.7	521.3	480.8	460.5	457.0
60°	6532.3	5434.7	1565.6	517.3	482.5	518.6	541.5	517.8	483.9	482.1	479.5
62.5°	6748.1	5417.6	1271.1	480.8	459.2	505.9	551.2	537.6	519.1	534.9	536.3
65°	6651.2	5158.7	946.6	456.6	442.5	510.7	580.3	575.0	529.2	545.1	547.3
67.5°	6013.7	4541.0	700.9	435.4	424.0	524.4	633.1	587.3	509.4	520.8	513.8
70°	4860.6	3600.1	540.7	411.7	405.1	522.6	656.9	579.8	487.8	490.5	471.5
72.5°	3351.8	2455.0	439.8	389.6	377.8	476.4	640.2	561.3	469.8	449.5	424.4
75°	1822.7	1317.7	373.8	366.7	329.8	418.3	609.3	548.1	453.5	426.6	412.5
77.5°	717.2	546.8	324.5	335.5	288.4	369.4	575.0	523.0	431.0	395.8	388.8
80°	292.8	279.1	269.0	290.1	247.9	323.2	533.6	493.5	404.2	367.2	353.1
82.5°	166.0	173.5	209.1	228.9	201.2	297.6	513.8	469.8	372.0	328.9	312.2
85°	85.0	101.7	145.7	164.2	147.9	253.2	473.3	411.2	298.5	251.8	253.2
87.5°	40.9	56.8	92.0	103.0	96.0	183.2	353.5	298.1	232.5	184.0	178.3
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)