

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: P319187

Luminaire Tested: **GAN-SA3A-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319187
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-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 11227 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

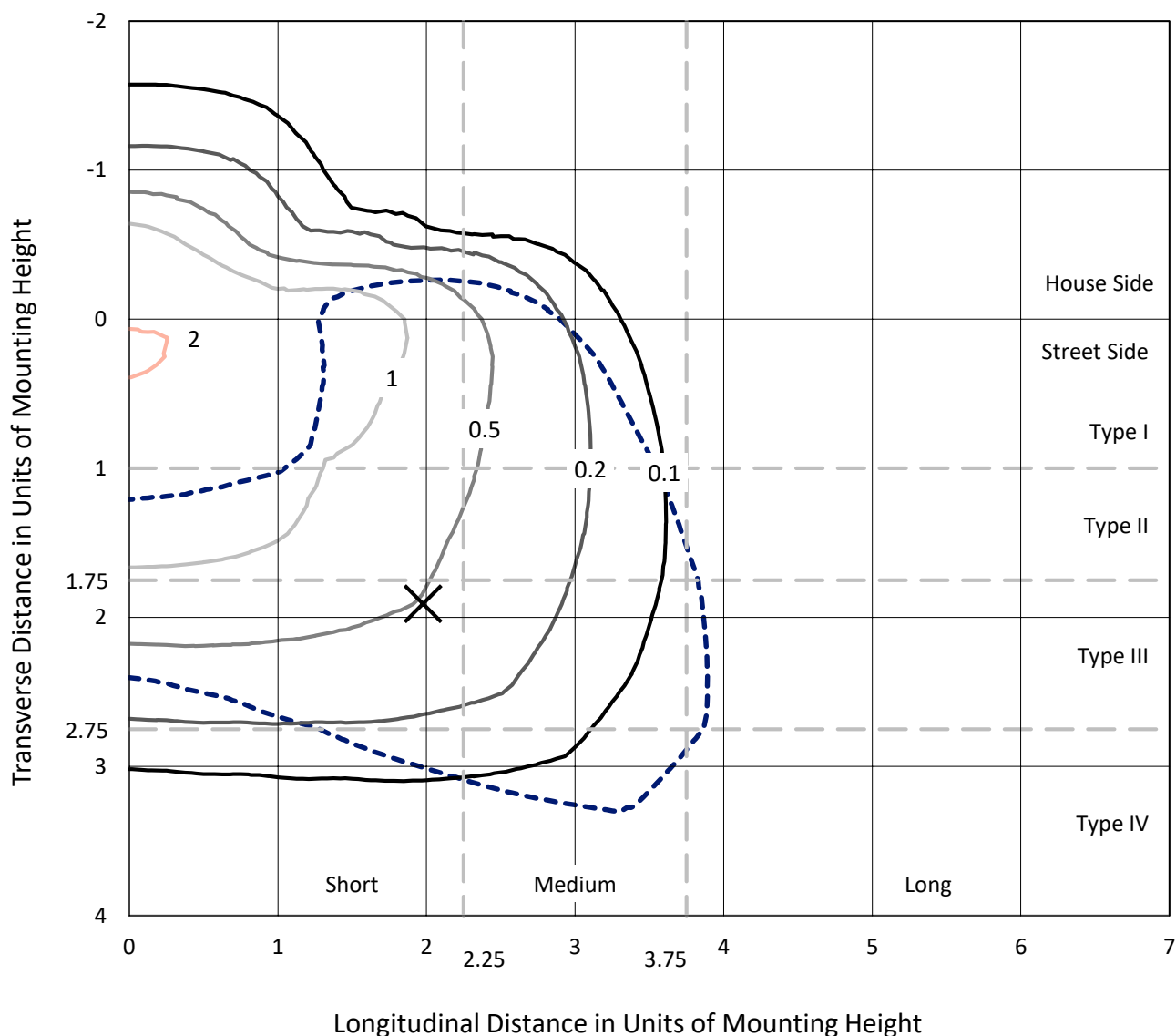


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

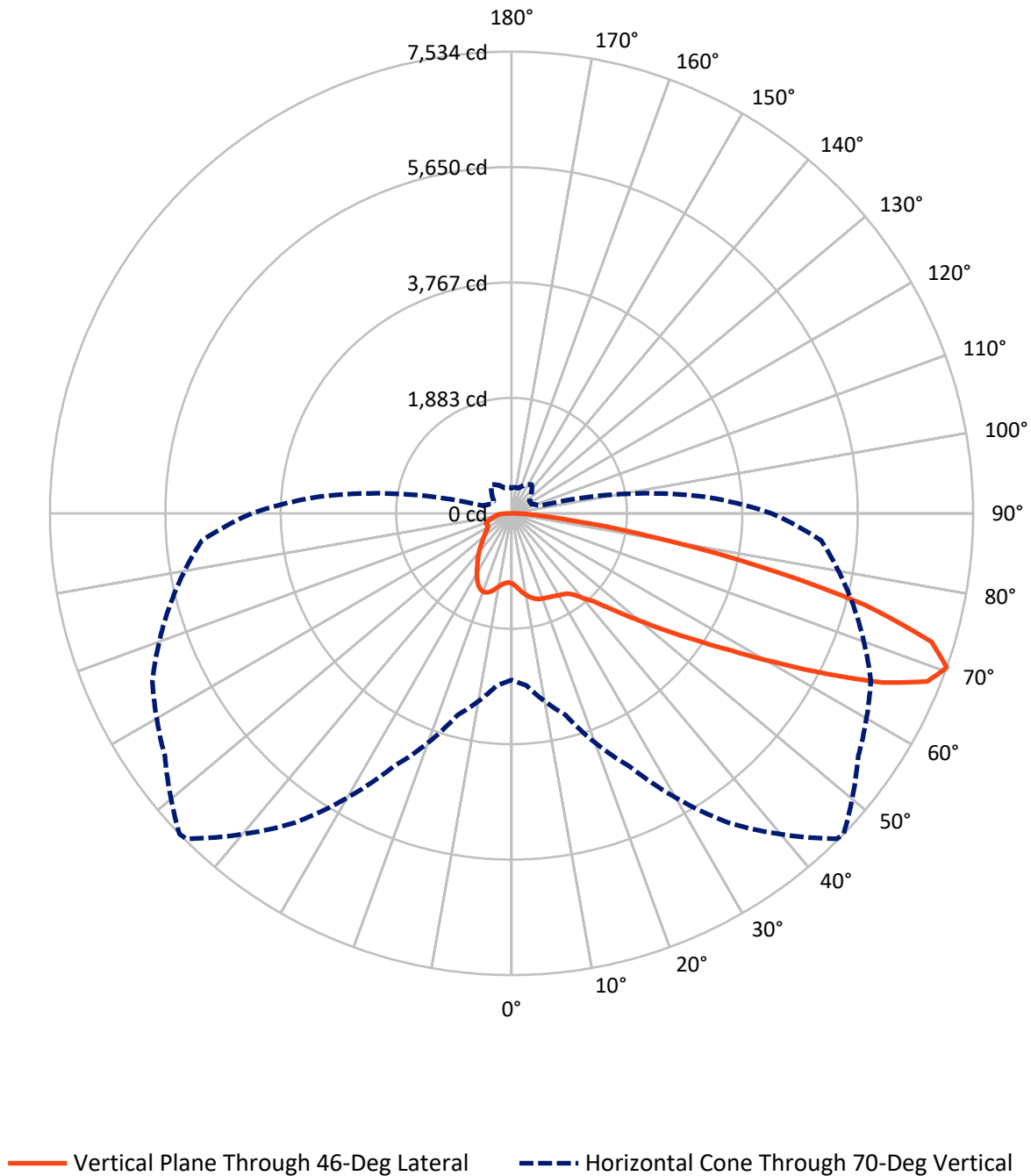
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.2	0.0	2573.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8653.8	0.0	8653.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	11227.0	0.0	11227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.0
10°-20°	388.5	3.5
20°-30°	647.8	5.8
30°-40°	919.2	8.2
40°-50°	1352.1	12.0
50°-60°	2289.8	20.4
60°-70°	3250.3	29.0
70°-80°	1974.6	17.6
80°-90°	288.2	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°	11227.0	100.0
0°-180°	11227.0	100.0

Coefficient of Utilization



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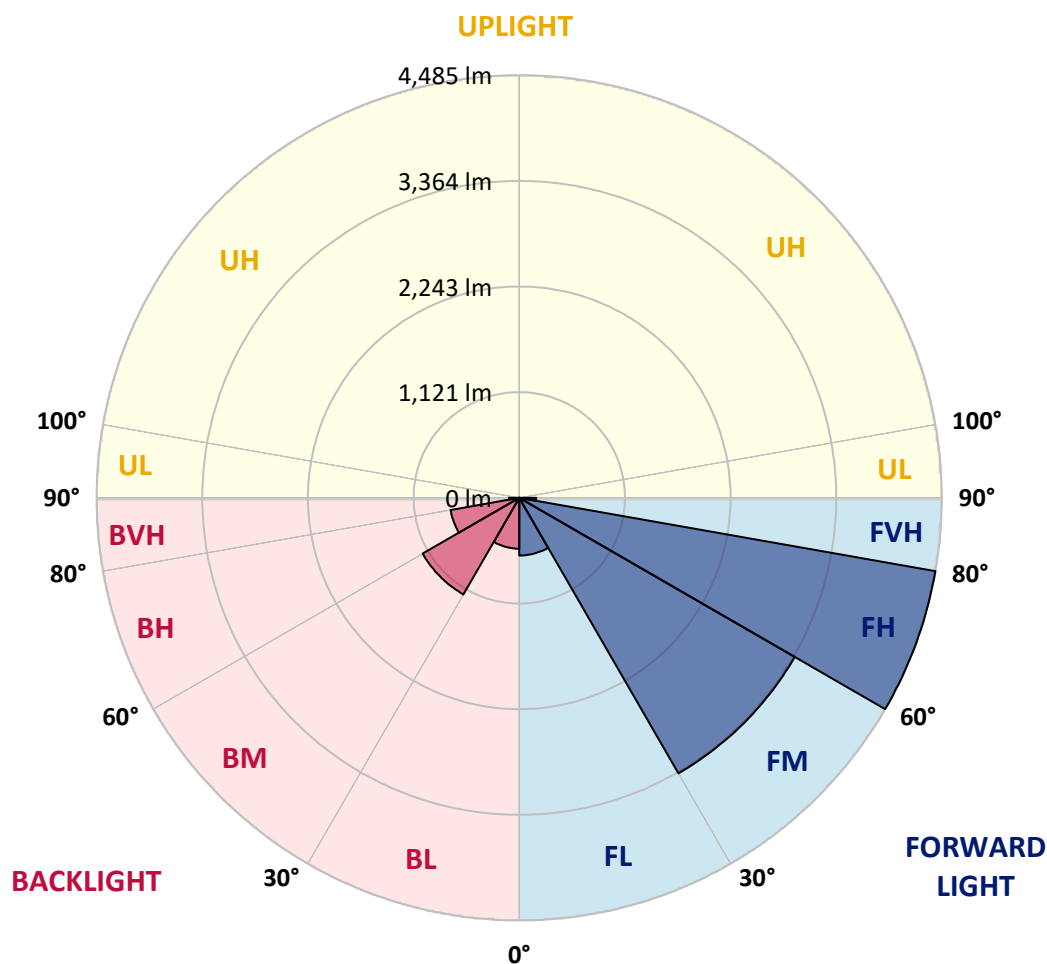
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	612.6	5.5			
FM	(30°-60°)	3376.6	30.1			
FH	(60°-80°)	4485.1	39.9			G2/5000
FVH	(80°-90°)	179.5	1.6			G2/225
BL	(0°-30°)	540.2	4.8	B2/1000		
BM	(30°-60°)	1184.5	10.6	B2/2500		
BH	(60°-80°)	739.8	6.6	B2/1000		G2/1000
BVH	(80°-90°)	108.7	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°	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8
2.5°	1201.1	1201.8	1203.4	1199.5	1188.8	1185.7	1184.5	1173.4	1166.1	1155.3	1146.1
5°	1297.1	1297.9	1295.6	1284.8	1261.0	1243.3	1241.8	1216.4	1193.4	1168.8	1150.3
7.5°	1397.4	1398.5	1391.2	1370.9	1337.5	1306.7	1304.8	1270.2	1235.3	1198.0	1170.3
10°	1486.1	1481.5	1469.6	1441.2	1401.6	1364.0	1362.4	1326.3	1286.0	1241.0	1204.1
12.5°	1545.3	1541.5	1526.1	1491.5	1448.1	1413.5	1410.5	1377.0	1337.8	1288.7	1244.5
15°	1578.0	1580.7	1559.9	1520.7	1478.5	1449.3	1446.6	1422.8	1387.8	1338.2	1287.5
17.5°	1582.2	1584.5	1564.5	1525.7	1491.1	1471.2	1470.0	1454.3	1428.9	1381.3	1328.2
20°	1557.6	1559.1	1542.6	1510.7	1488.1	1481.9	1481.5	1474.6	1455.8	1413.5	1362.0
22.5°	1521.9	1523.0	1511.1	1488.1	1480.4	1490.0	1492.7	1490.0	1476.5	1437.0	1388.6
25°	1513.0	1512.3	1500.0	1476.5	1483.1	1503.4	1506.9	1508.0	1498.8	1464.2	1422.4
27.5°	1555.7	1553.0	1529.6	1491.9	1496.1	1520.7	1525.3	1536.5	1530.7	1500.4	1460.8
30°	1679.0	1674.4	1626.4	1550.3	1529.6	1542.2	1548.0	1565.7	1566.8	1541.5	1511.9
32.5°	1887.3	1881.5	1795.4	1659.4	1586.0	1564.1	1569.5	1596.0	1610.2	1590.7	1558.8
35°	2150.5	2143.9	2031.0	1845.0	1680.6	1606.0	1609.9	1631.0	1659.4	1631.8	1589.5
37.5°	2424.8	2409.0	2300.3	2063.2	1830.8	1695.5	1695.5	1698.2	1711.7	1654.1	1625.6
40°	2697.6	2681.8	2583.5	2319.9	2025.2	1836.6	1827.7	1768.2	1757.4	1707.8	1698.2
42.5°	2951.2	2946.6	2888.5	2610.0	2253.4	1975.3	1963.0	1861.9	1864.2	1833.5	1833.9
45°	3220.9	3220.9	3173.6	2902.8	2519.3	2198.1	2185.8	2037.1	2060.2	2046.0	2080.1
47.5°	3441.0	3448.0	3441.4	3207.8	2828.6	2481.3	2459.0	2279.9	2344.5	2393.3	2492.8
50°	3665.8	3676.6	3677.7	3542.5	3202.4	2817.8	2792.5	2602.3	2746.4	2886.2	3081.8
52.5°	3992.0	4016.2	3919.8	3876.4	3660.4	3217.4	3192.5	3016.9	3257.4	3453.7	3790.7
55°	4294.4	4273.3	4204.5	4231.4	4150.7	3672.3	3653.5	3499.4	3826.8	4081.9	4519.5
57.5°	4458.1	4456.5	4525.7	4640.9	4679.4	4233.3	4217.5	4067.7	4468.8	4660.5	5203.8
60°	4650.2	4652.9	4824.2	5085.9	5244.2	4931.8	4924.9	4811.2	5092.4	5200.8	5740.6
62.5°	4677.1	4725.5	5020.6	5470.9	5772.8	5747.9	5763.2	5480.8	5650.3	5631.8	6141.3
65°	4367.8	4431.5	4965.6	5587.3	6298.5	6640.4	6654.6	6154.4	6090.2	6000.3	6284.6
67.5°	3733.8	3828.3	4408.5	5334.1	6471.7	7300.1	7320.1	6676.5	6455.2	6125.2	5939.6
70°	2717.2	2822.1	3406.1	4555.7	6162.8	7511.0	7533.7	6907.4	6469.0	5769.8	5070.5
72.5°	1641.4	1723.6	2205.0	3353.8	5201.5	7126.8	7167.2	6614.7	5906.2	4887.2	3744.2
75°	720.8	774.6	1066.2	1932.6	3723.8	5896.6	5946.9	5661.8	4798.9	3551.7	2213.1
77.5°	307.0	322.4	437.2	839.5	2105.1	4029.3	4098.4	4136.9	3255.8	1932.6	935.2
80°	191.3	197.5	247.4	380.0	985.1	2263.0	2337.6	2434.0	1616.8	710.4	326.6
82.5°	116.4	123.3	164.4	229.8	512.9	1025.9	1061.6	1129.6	627.4	307.0	169.1
85°	69.9	74.9	100.7	145.2	292.0	403.4	403.0	445.7	295.5	197.5	89.1
87.5°	33.4	37.3	53.8	75.3	147.2	151.4	141.8	160.6	179.4	129.5	45.0
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°	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8
2.5°	1143.0	1141.5	1136.5	1132.7	1131.9	1129.6	1127.7	1128.8	1130.4	1130.7	1130.7
5°	1142.7	1138.4	1131.9	1129.2	1132.7	1137.3	1143.0	1150.7	1155.3	1158.8	1161.1
7.5°	1161.1	1153.0	1145.7	1144.2	1151.1	1163.4	1176.5	1192.6	1203.7	1211.4	1213.0
10°	1191.8	1181.8	1174.5	1176.1	1188.4	1206.1	1224.5	1245.2	1262.2	1272.5	1273.3
12.5°	1227.2	1217.6	1210.7	1217.2	1237.6	1259.1	1278.3	1296.3	1311.7	1322.1	1322.1
15°	1267.9	1261.0	1252.9	1267.9	1295.6	1314.8	1322.9	1331.7	1340.1	1347.8	1346.3
17.5°	1307.1	1300.6	1296.3	1314.0	1342.8	1351.7	1346.3	1339.8	1339.8	1344.0	1344.8
20°	1340.9	1335.2	1337.8	1355.1	1370.1	1360.9	1340.9	1320.2	1311.7	1314.0	1316.3
22.5°	1370.5	1367.8	1375.9	1383.9	1373.2	1340.9	1304.0	1276.0	1265.6	1264.8	1265.6
25°	1405.1	1404.7	1414.7	1400.1	1352.4	1292.9	1243.3	1216.0	1210.3	1214.9	1222.6
27.5°	1448.1	1452.3	1457.3	1403.9	1310.2	1220.3	1169.9	1151.1	1156.9	1168.0	1175.3
30°	1503.1	1514.6	1503.8	1394.3	1249.5	1137.3	1089.3	1083.9	1099.6	1115.4	1123.1
32.5°	1556.5	1574.5	1548.4	1369.3	1171.1	1049.3	1012.0	1010.5	1029.7	1045.1	1055.8
35°	1599.5	1635.2	1581.8	1319.8	1080.4	968.2	940.9	930.6	937.5	955.5	967.8
37.5°	1655.6	1715.1	1604.9	1244.1	982.1	901.4	869.5	845.7	839.5	846.8	853.0
40°	1758.2	1836.9	1615.6	1138.4	886.0	834.5	802.2	767.3	743.1	725.4	725.8
42.5°	1925.7	1995.6	1608.7	1010.1	797.2	769.2	732.7	692.4	653.2	613.2	610.1
45°	2197.7	2231.5	1588.0	874.1	719.3	700.8	666.6	626.3	574.0	528.7	524.5
47.5°	2633.0	2558.1	1555.7	755.4	650.5	642.8	611.3	564.8	509.5	473.0	469.9
50°	3226.6	3029.5	1539.9	660.9	589.8	592.1	566.3	517.2	464.9	438.0	434.9
52.5°	3936.7	3578.6	1570.3	587.9	541.0	549.0	529.8	483.7	439.9	418.8	415.7
55°	4673.2	4147.2	1602.9	534.8	494.9	510.6	504.1	466.1	426.5	406.9	404.2
57.5°	5303.7	4571.8	1537.6	491.8	453.8	478.3	484.1	454.9	419.6	401.9	398.8
60°	5700.6	4742.8	1366.3	451.5	421.1	452.6	472.6	451.8	422.3	420.7	418.4
62.5°	5888.9	4727.8	1109.2	419.6	400.7	441.5	481.0	469.1	453.0	466.8	468.0
65°	5804.4	4501.9	826.1	398.4	386.1	445.7	506.4	501.8	461.8	475.7	477.6
67.5°	5248.0	3962.8	611.7	380.0	370.0	457.6	552.5	512.5	444.5	454.5	448.4
70°	4241.7	3141.7	471.8	359.2	353.5	456.1	573.3	506.0	425.7	428.0	411.5
72.5°	2925.0	2142.4	383.8	340.0	329.7	415.7	558.7	489.9	410.0	392.3	370.4
75°	1590.7	1150.0	326.2	320.1	287.8	365.0	531.8	478.3	395.7	372.3	360.0
77.5°	625.9	477.2	283.2	292.8	251.7	322.4	501.8	456.4	376.1	345.4	339.3
80°	255.5	243.6	234.8	253.2	216.3	282.0	465.7	430.7	352.7	320.4	308.1
82.5°	144.8	151.4	182.5	199.8	175.6	259.7	448.4	410.0	324.7	287.0	272.4
85°	74.2	88.8	127.2	143.3	129.1	220.9	413.0	358.9	260.5	219.8	220.9
87.5°	35.7	49.6	80.3	89.9	83.8	159.8	308.5	260.1	202.9	160.6	155.6
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)