

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: P193310

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11697.3 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

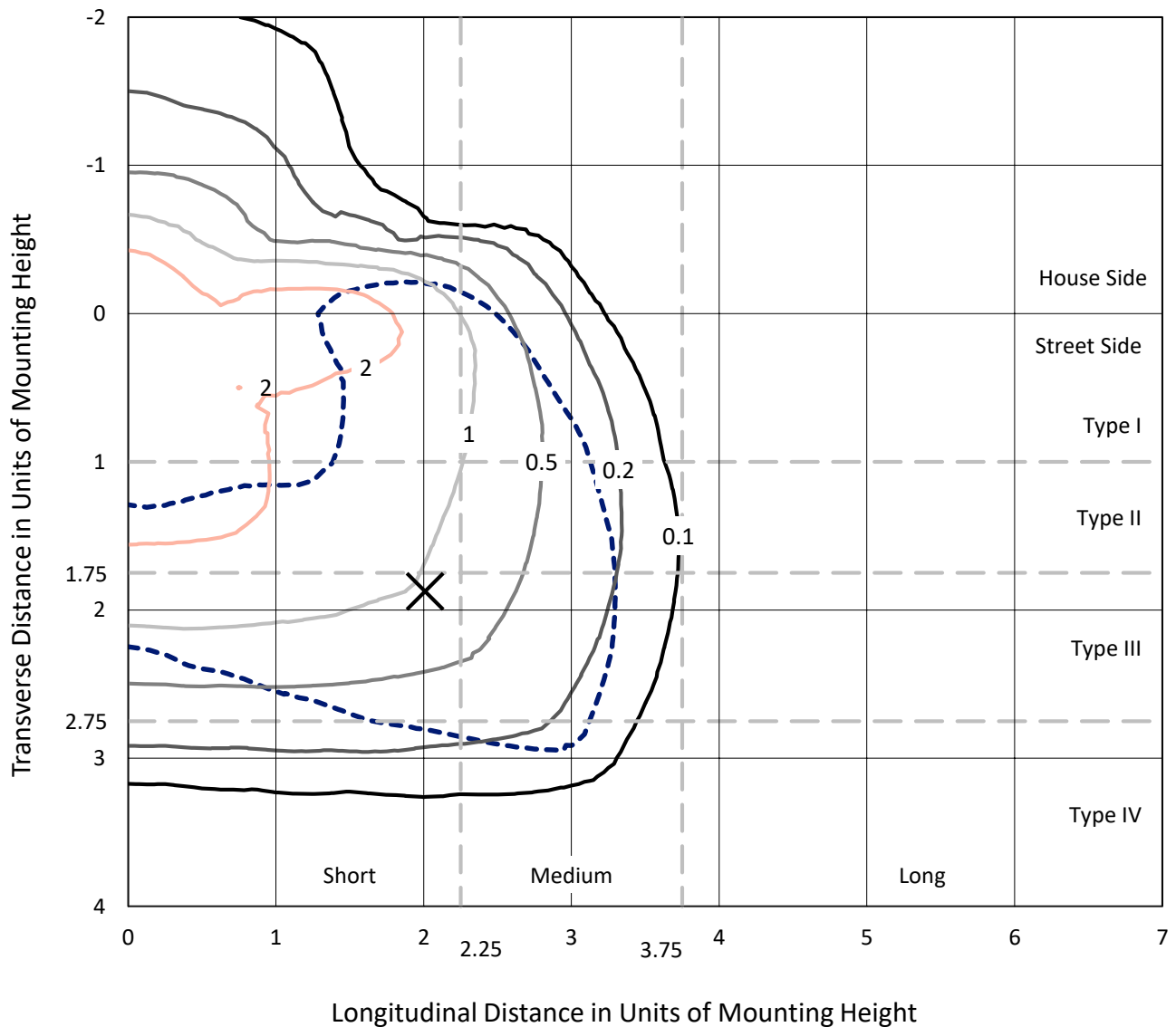
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193310
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Iso-Footcandle Lines of Horizontal Illumination

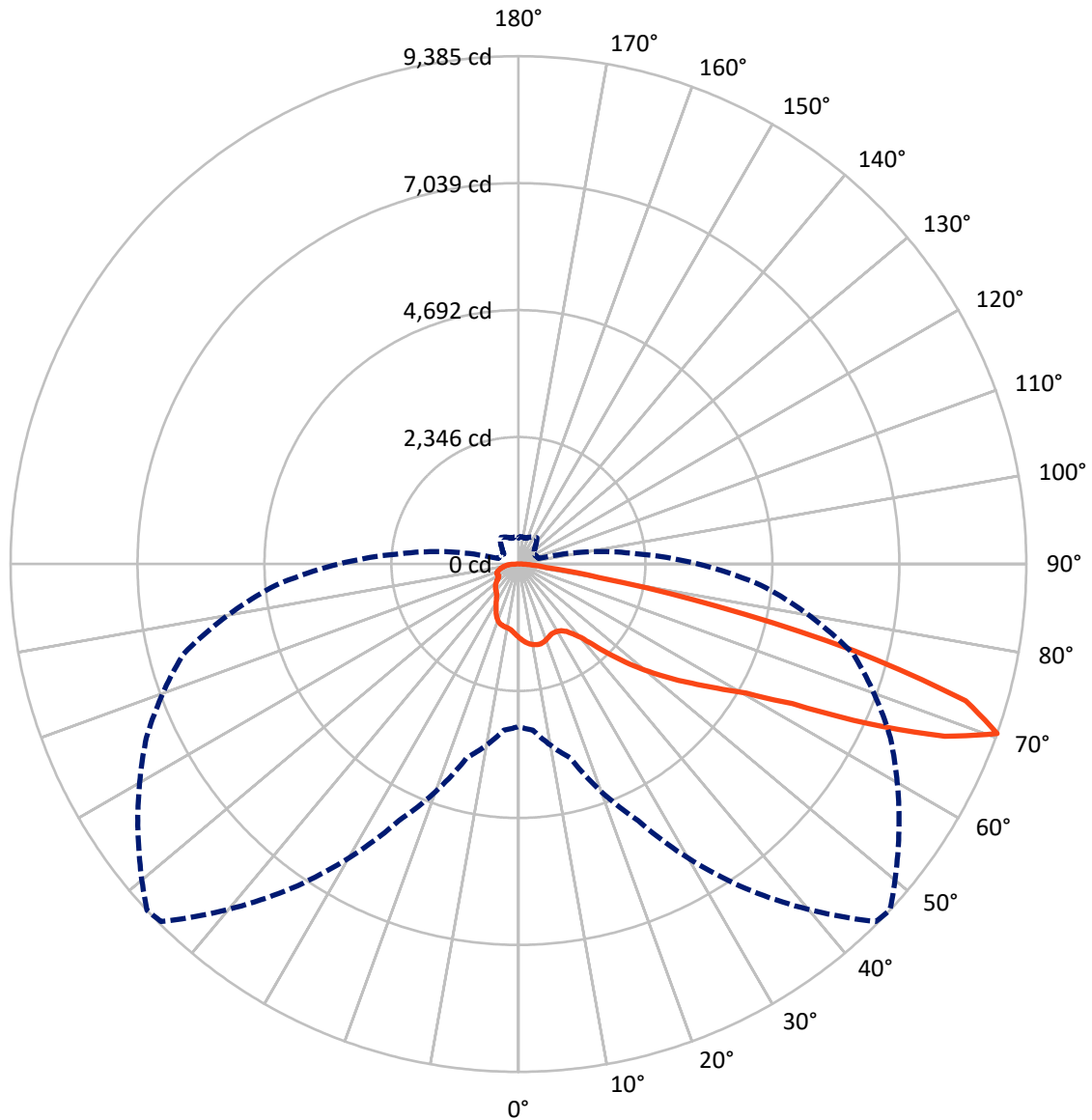
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193310
CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.3	0.0	2440.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9257.0	0.0	9257.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	11697.3	0.0	11697.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.1
10°-20°	381.5	3.3
20°-30°	563.4	4.8
30°-40°	818.9	7.0
40°-50°	1473.7	12.6
50°-60°	2553.1	21.8
60°-70°	3644.0	31.2
70°-80°	1870.6	16.0
80°-90°	261.9	2.2
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°	11697.3	100.0
0°-180°	11697.3	100.0

Coefficient of Utilization



REPORT NUMBER: P193310

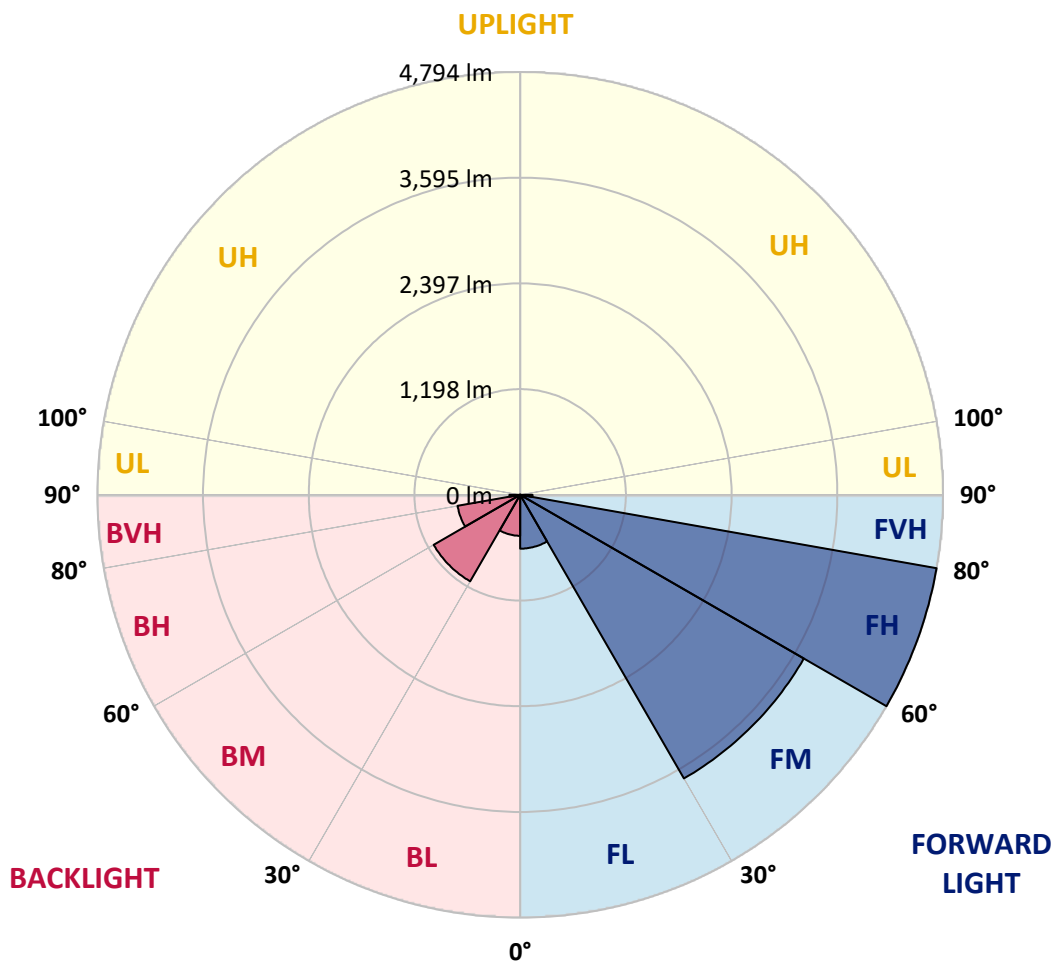
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.3	5.2			
FM (30°-60°)	3713.0	31.7			
FH (60°-80°)	4793.9	41.0			G2/5000
FVH (80°-90°)	139.7	1.2			G2/225
BL (0°-30°)	464.6	4.0	B1/500		
BM (30°-60°)	1132.7	9.7	B2/2500		
BH (60°-80°)	720.8	6.2	B2/1000		G2/1000
BVH (80°-90°)	122.1	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





REPORT NUMBER: P193310
 CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1436.9	1434.0	1432.9	1430.6	1427.8	1413.6	1410.7	1400.4	1386.3	1371.5	1356.1
5°	1531.4	1530.8	1524.6	1513.1	1495.0	1463.6	1456.3	1431.2	1397.7	1365.2	1332.8
7.5°	1614.6	1609.4	1597.4	1574.7	1542.7	1500.1	1489.9	1455.2	1409.0	1364.6	1320.8
10°	1675.4	1672.5	1646.3	1615.1	1573.6	1526.3	1514.4	1475.6	1425.0	1368.6	1314.0
12.5°	1710.1	1704.3	1674.2	1636.7	1587.2	1541.1	1529.1	1489.9	1432.9	1368.6	1304.3
15°	1707.8	1703.8	1673.7	1632.7	1582.6	1542.2	1531.4	1492.2	1431.2	1362.9	1291.8
17.5°	1662.3	1664.0	1638.4	1597.9	1557.0	1526.3	1516.6	1480.1	1419.9	1351.5	1277.0
20°	1582.6	1590.6	1573.6	1537.6	1514.9	1493.8	1487.6	1456.9	1402.3	1335.0	1261.1
22.5°	1503.0	1510.3	1503.5	1473.4	1470.0	1457.4	1454.0	1431.9	1386.8	1324.8	1251.4
25°	1444.3	1451.2	1450.0	1423.8	1434.0	1433.5	1430.6	1419.9	1383.4	1324.8	1253.1
27.5°	1428.3	1430.6	1428.3	1404.5	1418.7	1430.1	1427.8	1426.2	1393.7	1341.2	1274.7
30°	1482.9	1479.6	1462.0	1413.6	1426.7	1442.7	1440.4	1441.4	1424.4	1384.6	1323.1
32.5°	1700.9	1685.7	1629.8	1493.8	1459.1	1467.7	1468.8	1487.6	1490.4	1451.2	1398.2
35°	2027.1	2010.0	1937.7	1709.0	1559.9	1530.2	1530.2	1558.7	1575.7	1546.8	1514.9
37.5°	2372.4	2353.7	2314.9	2007.1	1771.5	1639.0	1636.0	1656.1	1680.5	1687.3	1695.2
40°	2765.2	2745.2	2756.1	2341.8	2066.8	1827.4	1786.9	1772.7	1838.8	1882.5	1946.2
42.5°	3194.8	3185.7	3189.8	2714.5	2403.2	2109.0	2051.6	1978.1	2057.8	2135.8	2269.6
45°	3592.6	3600.5	3596.6	3113.5	2777.7	2452.8	2391.8	2249.5	2327.5	2461.3	2679.2
47.5°	3940.9	3907.8	3959.1	3549.3	3197.0	2837.5	2762.3	2571.6	2650.7	2815.8	3184.6
50°	4363.7	4359.1	4284.0	4131.0	3704.1	3223.8	3125.4	2904.5	3027.5	3256.8	3821.4
52.5°	4808.2	4725.6	4656.7	4583.3	4241.9	3619.9	3499.2	3236.4	3470.2	3758.7	4597.6
55°	4899.1	4862.1	4947.6	5071.0	4760.3	4031.3	3890.8	3652.3	3968.8	4332.3	5492.8
57.5°	5093.7	5093.2	5269.7	5489.8	5294.1	4467.8	4326.1	4154.8	4529.4	4989.7	6443.1
60°	5225.4	5262.3	5590.0	6017.5	5818.3	4972.1	4841.8	4734.8	5166.7	5724.3	7328.6
62.5°	5294.1	5344.2	5791.5	6231.4	6559.2	5811.4	5681.2	5526.9	6010.1	6530.2	7846.5
65°	5007.9	5106.3	5760.2	6416.4	7208.0	7172.1	7113.5	6842.6	7064.4	7167.0	7659.2
67.5°	4215.8	4316.5	5078.0	6243.9	7671.2	8484.4	8496.9	8034.3	7713.2	7221.6	6439.6
70°	3003.6	3082.6	3712.6	5234.9	7318.3	9342.0	9384.8	8583.4	7584.1	6404.4	4499.1
72.5°	1426.2	1474.5	2070.9	3407.0	5807.4	8559.5	8642.0	7882.3	6448.8	4741.6	2454.4
75°	524.1	538.8	700.0	1449.5	3368.4	6312.2	6409.4	5650.4	4274.9	2360.5	935.0
77.5°	314.1	323.9	392.7	611.8	1324.8	3608.0	3752.0	3073.0	1868.4	878.7	459.8
80°	219.6	226.5	281.7	380.7	625.9	1374.9	1503.0	1254.3	744.4	556.0	334.7
82.5°	148.5	152.0	198.1	257.2	415.9	491.1	529.8	557.7	501.9	413.8	212.3
85°	97.4	100.7	134.3	169.6	264.6	253.8	259.5	328.4	366.4	281.2	117.8
87.5°	55.7	58.0	80.9	90.4	129.8	107.5	108.7	172.9	234.5	189.4	71.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193310

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1352.1	1344.8	1328.3	1318.0	1308.3	1306.0	1302.1	1301.5	1301.0	1301.0	1299.2
5°	1321.9	1309.5	1283.8	1269.6	1257.7	1256.5	1255.9	1258.7	1260.0	1261.1	1259.3
7.5°	1302.6	1285.6	1253.6	1233.2	1219.0	1215.5	1221.2	1234.3	1242.9	1246.3	1244.6
10°	1290.7	1269.6	1232.7	1210.4	1198.5	1196.7	1204.1	1219.6	1237.2	1244.0	1243.5
12.5°	1277.0	1253.1	1213.9	1190.5	1183.8	1187.1	1196.7	1211.0	1229.1	1240.0	1240.6
15°	1263.4	1235.5	1195.1	1174.5	1171.7	1176.2	1185.4	1196.2	1210.4	1221.2	1222.4
17.5°	1246.8	1217.8	1177.4	1156.4	1154.1	1156.4	1156.9	1162.6	1171.7	1181.9	1184.8
20°	1229.1	1199.6	1157.5	1136.4	1126.3	1117.0	1106.9	1108.0	1110.8	1121.1	1123.4
22.5°	1216.7	1187.1	1142.1	1113.2	1085.8	1058.5	1038.0	1035.1	1036.4	1044.8	1047.7
25°	1217.8	1186.5	1138.2	1088.1	1028.3	984.5	957.2	952.6	952.0	958.3	962.3
27.5°	1240.0	1208.7	1152.9	1062.4	965.8	900.9	871.8	868.4	863.9	865.6	870.1
30°	1289.5	1260.6	1188.8	1036.4	898.0	818.9	788.8	785.3	779.0	776.2	779.7
32.5°	1370.3	1346.4	1241.1	1011.3	830.3	748.9	718.2	710.7	706.8	703.4	706.3
35°	1504.6	1494.4	1311.1	984.0	770.5	694.9	666.9	655.5	649.9	656.1	660.7
37.5°	1715.2	1721.0	1402.8	941.3	724.4	659.0	635.7	622.6	614.0	619.2	624.3
40°	2013.4	2017.4	1504.1	880.9	684.6	638.0	613.0	600.9	589.0	579.8	579.3
42.5°	2404.9	2364.5	1603.7	815.5	638.5	624.9	597.0	582.2	564.0	538.8	533.8
45°	2869.2	2727.5	1679.4	740.3	586.7	608.9	579.3	558.9	530.4	503.0	500.2
47.5°	3404.2	3117.3	1716.4	662.4	538.3	585.6	557.7	525.2	489.4	475.8	474.0
50°	4057.6	3580.1	1734.0	586.7	496.2	554.8	526.4	488.3	458.2	455.3	453.5
52.5°	4801.3	4136.7	1739.6	524.7	461.5	515.0	500.7	463.8	439.9	442.2	442.2
55°	5579.8	4711.4	1662.3	479.7	429.6	474.0	483.7	454.1	434.2	443.3	446.8
57.5°	6294.5	5220.7	1418.7	445.0	399.5	442.7	477.5	463.3	449.6	486.5	488.8
60°	6843.1	5521.8	1059.6	413.8	377.3	431.9	494.0	497.9	501.4	589.6	601.5
62.5°	6958.0	5421.6	728.4	389.3	367.0	441.1	524.1	524.7	520.7	582.2	589.6
65°	6430.6	4788.2	529.8	375.7	358.5	457.6	549.7	537.8	511.6	558.4	544.6
67.5°	5106.9	3607.4	441.1	365.4	346.1	456.3	577.0	549.7	506.5	546.9	524.7
70°	3314.9	2181.3	392.7	356.8	331.2	434.8	592.9	548.6	491.6	508.7	482.6
72.5°	1617.4	975.3	360.2	344.2	315.9	404.6	592.4	538.3	476.4	475.2	461.0
75°	632.8	446.8	330.6	325.5	289.6	370.5	576.5	523.6	458.2	439.9	434.8
77.5°	370.5	318.7	293.1	297.6	258.4	336.3	553.2	497.9	433.1	411.5	405.8
80°	269.8	238.4	249.8	257.2	220.8	302.2	521.8	466.6	405.2	415.9	408.1
82.5°	172.9	153.6	202.5	210.0	183.8	267.4	487.8	433.6	365.9	332.3	324.4
85°	88.2	97.4	150.8	159.9	141.7	219.6	446.1	389.8	321.6	276.5	281.2
87.5°	49.5	66.5	96.1	107.5	100.2	169.1	361.9	321.6	262.3	213.4	187.8
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)