

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: P198639

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-T4W-7030
Description: XNV2 ROADWAY AND AREA 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: 10548 lumens
Efficiency: N/A
Efficacy: 95.0 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

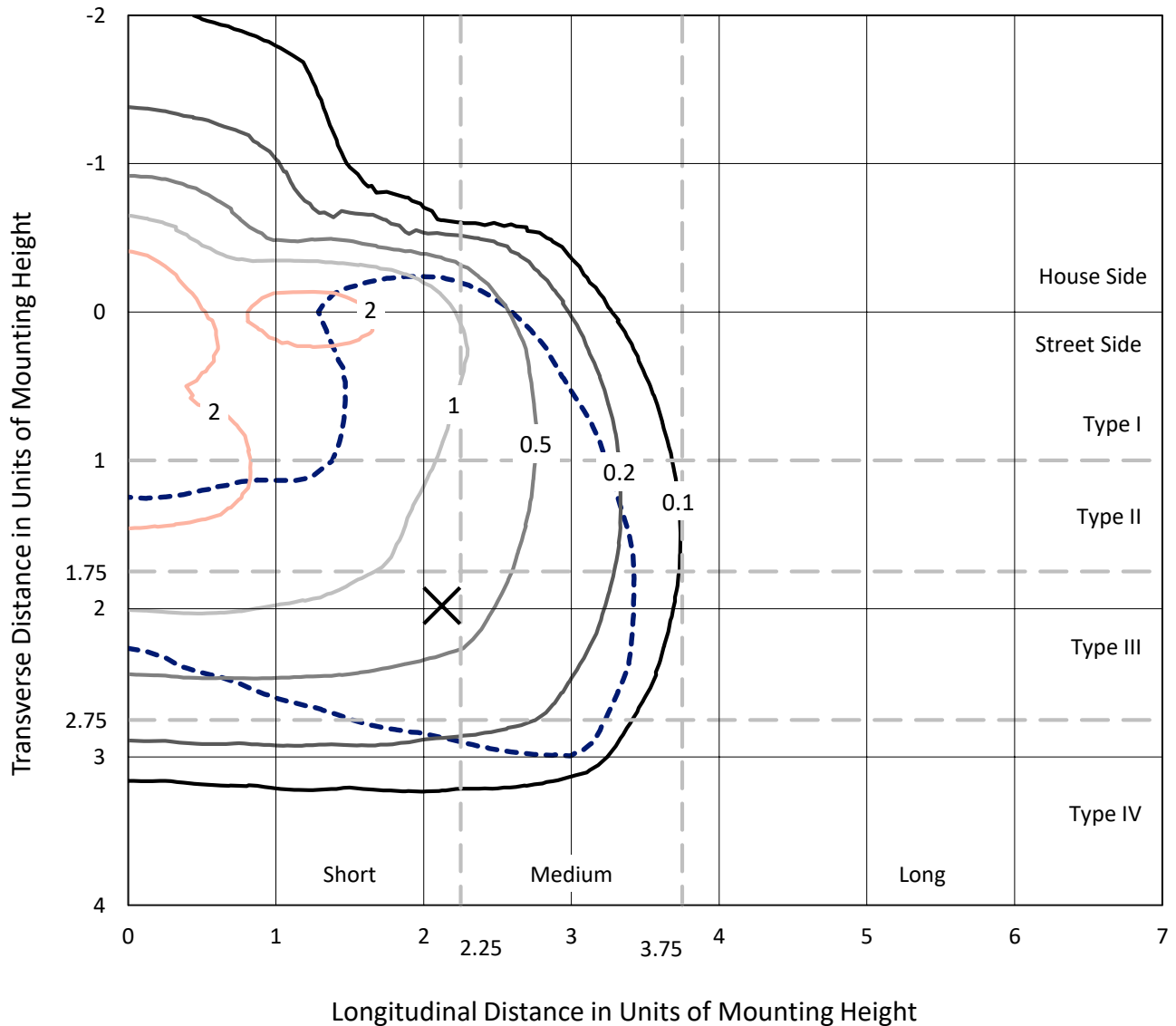
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

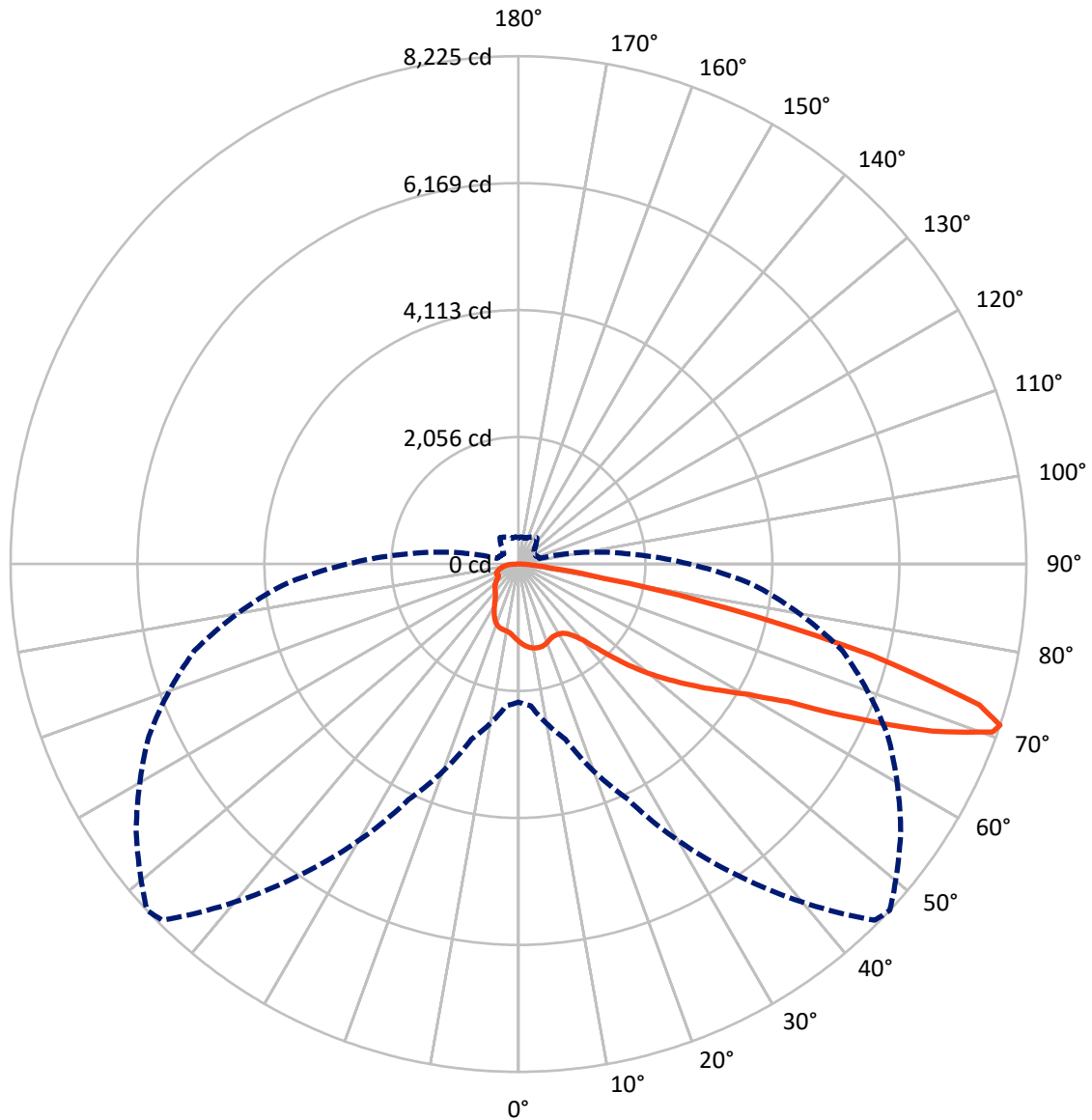


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2260.6	0.0	2260.6
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	8287.4	0.0	8287.4
	% Fixture	78.6	0.0	78.6
Total	Lumens	10548.0	0.0	10548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.1
10°-20°	350.4	3.3
20°-30°	520.6	4.9
30°-40°	747.6	7.1
40°-50°	1325.5	12.6
50°-60°	2268.1	21.5
60°-70°	3219.9	30.5
70°-80°	1763.5	16.7
80°-90°	232.8	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°	10548.0	100.0
0°-180°	10548.0	100.0

Coefficient of Utilization



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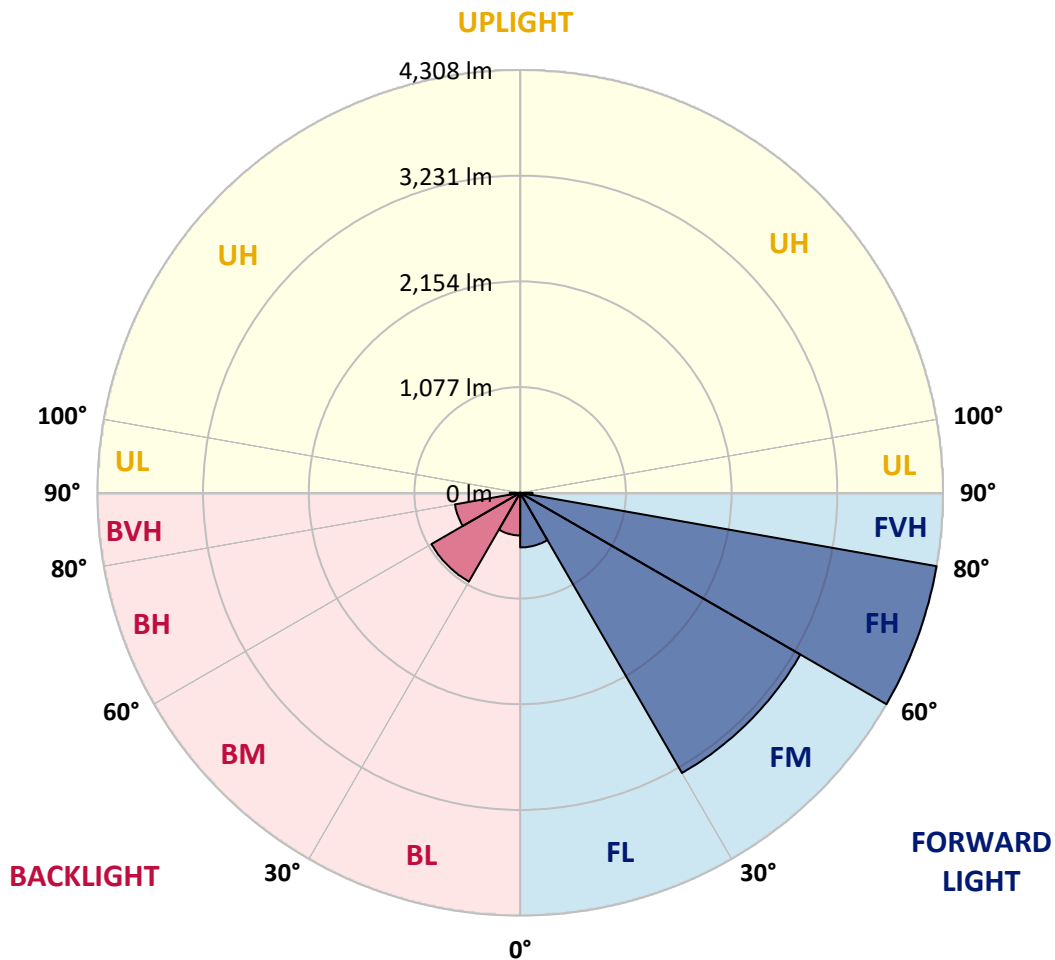
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.7	5.3			
FM	(30°-60°)	3296.6	31.3			
FH	(60°-80°)	4307.9	40.8			G2/5000
FVH	(80°-90°)	126.3	1.2			G2/225
BL	(0°-30°)	434.1	4.1	B1/500		
BM	(30°-60°)	1044.5	9.9	B2/2500		
BH	(60°-80°)	675.4	6.4	B2/1000		G2/1000
BVH	(80°-90°)	106.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3
2.5°	1330.9	1328.2	1329.5	1324.7	1313.1	1300.8	1300.8	1287.8	1274.2	1260.5	1245.4
5°	1413.6	1409.5	1406.1	1391.0	1368.5	1343.2	1339.1	1313.1	1285.1	1257.1	1229.7
7.5°	1482.6	1478.5	1468.3	1440.9	1408.1	1370.5	1365.8	1331.6	1294.7	1255.7	1217.4
10°	1531.9	1529.1	1509.3	1474.4	1436.2	1391.7	1383.5	1348.7	1304.9	1256.4	1207.9
12.5°	1559.2	1555.1	1531.2	1490.2	1445.0	1399.9	1391.7	1358.2	1308.3	1255.0	1198.3
15°	1548.3	1546.2	1523.7	1482.0	1436.8	1397.9	1391.0	1356.9	1306.3	1250.2	1189.4
17.5°	1501.8	1506.6	1488.8	1447.8	1410.9	1383.5	1376.0	1343.9	1296.0	1238.6	1175.7
20°	1437.5	1443.0	1434.1	1392.4	1371.2	1353.5	1349.3	1323.4	1278.9	1221.5	1159.3
22.5°	1369.2	1374.0	1374.6	1335.7	1328.8	1322.0	1318.6	1300.1	1263.9	1211.3	1148.4
25°	1322.0	1327.5	1328.8	1294.7	1298.8	1300.8	1300.1	1287.1	1261.2	1211.3	1149.7
27.5°	1309.7	1312.4	1311.1	1279.6	1287.1	1298.8	1299.4	1296.7	1272.1	1224.9	1168.9
30°	1352.1	1353.5	1336.4	1289.2	1296.7	1311.8	1312.4	1311.1	1295.3	1260.5	1212.0
32.5°	1535.3	1533.9	1475.1	1353.5	1327.5	1332.9	1335.0	1347.3	1348.7	1319.3	1274.2
35°	1814.2	1813.5	1745.1	1537.3	1415.0	1386.3	1389.0	1408.1	1425.2	1405.4	1379.4
37.5°	2121.1	2123.1	2081.4	1799.8	1603.6	1484.0	1481.3	1495.6	1526.4	1533.2	1536.6
40°	2461.5	2471.8	2469.7	2101.3	1868.2	1650.8	1623.5	1607.1	1666.5	1704.1	1752.6
42.5°	2850.4	2847.7	2849.1	2432.1	2170.3	1913.3	1862.7	1786.1	1855.2	1920.1	2026.8
45°	3184.7	3195.6	3203.8	2784.1	2508.7	2213.4	2162.1	2022.7	2084.9	2181.9	2344.6
47.5°	3521.0	3501.9	3516.9	3175.8	2885.3	2555.8	2489.5	2301.5	2359.7	2496.4	2743.8
50°	3912.7	3903.8	3835.5	3687.1	3340.6	2903.1	2816.3	2592.7	2677.5	2860.0	3236.7
52.5°	4264.1	4216.2	4162.9	4089.1	3788.3	3254.4	3144.4	2895.6	3051.4	3277.7	3848.4
55°	4392.6	4360.4	4424.7	4520.4	4262.0	3612.6	3489.6	3249.0	3473.2	3755.5	4568.2
57.5°	4529.3	4540.2	4685.1	4878.6	4710.4	3994.7	3861.4	3667.3	3935.9	4290.0	5372.8
60°	4597.6	4641.4	4930.5	5293.5	5137.0	4413.8	4285.9	4147.8	4449.3	4880.6	6175.3
62.5°	4609.2	4668.0	5077.5	5439.1	5724.1	5055.6	4908.0	4758.3	5090.5	5533.4	6756.3
65°	4396.0	4486.2	5064.5	5618.2	6259.4	6128.1	6034.5	5773.4	5949.0	6108.3	6855.4
67.5°	3769.2	3867.6	4563.5	5544.4	6688.6	7241.0	7223.2	6837.7	6612.1	6330.5	6120.6
70°	2766.4	2845.7	3514.2	4739.8	6501.3	8114.5	8146.0	7527.4	6797.3	5858.8	4551.1
71°	2237.3	2305.7	2935.9	4208.0	6136.3	8159.7	8225.3	7558.1	6604.6	5432.9	3810.2
72.5°	1392.4	1430.7	1949.5	3175.8	5283.9	7694.8	7805.6	7164.4	5997.6	4592.2	2693.2
75°	525.7	540.7	723.2	1400.6	3153.9	5780.9	5914.9	5414.5	4213.5	2621.5	1127.2
77.5°	282.3	289.8	358.9	582.4	1263.9	3313.9	3486.2	3088.3	2021.3	917.3	460.7
80°	189.3	194.1	248.1	345.2	581.0	1261.9	1405.4	1240.0	756.7	523.6	328.1
82.5°	122.4	125.1	168.8	226.9	375.3	443.6	506.5	529.1	472.3	375.3	198.2
85°	80.7	82.7	111.4	144.9	232.4	218.7	224.2	293.2	322.0	247.4	101.2
87.5°	46.5	47.8	67.0	74.5	104.6	82.0	88.9	139.4	191.4	161.3	58.1
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°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3
2.5°	1238.6	1233.1	1220.8	1213.3	1209.9	1208.5	1207.2	1209.9	1209.9	1208.5	1205.8
5°	1216.1	1205.8	1185.3	1170.9	1163.4	1161.4	1164.1	1167.5	1169.6	1169.6	1167.5
7.5°	1199.6	1184.6	1157.3	1137.4	1125.8	1122.4	1129.9	1142.2	1150.4	1154.5	1155.2
10°	1186.0	1165.5	1135.4	1114.9	1105.3	1104.0	1113.5	1129.2	1146.3	1153.9	1155.2
12.5°	1173.7	1150.4	1117.6	1098.5	1091.6	1095.1	1108.1	1122.4	1142.2	1153.2	1153.9
15°	1162.1	1138.1	1103.3	1083.4	1082.1	1087.5	1099.8	1111.5	1126.5	1140.2	1140.2
17.5°	1148.4	1122.4	1086.2	1067.7	1067.7	1072.5	1080.7	1086.9	1096.4	1109.4	1108.7
20°	1132.0	1105.3	1068.4	1049.3	1045.2	1042.4	1042.4	1043.8	1052.0	1063.6	1065.7
22.5°	1119.7	1092.3	1053.4	1030.1	1011.7	993.9	986.4	983.6	991.2	1002.1	1004.8
25°	1119.7	1092.3	1048.6	1009.6	964.5	930.3	916.0	911.9	919.4	929.6	933.7
27.5°	1138.1	1110.8	1059.5	991.2	908.5	853.8	836.7	833.3	840.1	848.3	852.4
30°	1181.2	1154.5	1091.0	970.0	846.2	774.5	755.3	751.9	755.3	758.8	763.5
32.5°	1253.0	1230.4	1142.2	950.8	783.4	702.7	679.5	674.0	675.4	676.0	680.1
35°	1369.9	1359.6	1210.6	928.3	723.9	643.9	620.0	609.1	608.4	611.8	616.6
37.5°	1548.9	1555.1	1298.8	895.5	674.7	602.2	578.3	567.4	561.9	568.7	574.2
40°	1801.9	1816.2	1400.6	851.0	634.3	577.6	552.3	542.1	534.5	532.5	535.2
42.5°	2130.7	2126.6	1504.5	794.3	590.6	561.2	534.5	523.6	511.3	495.6	492.2
45°	2520.3	2461.5	1591.3	724.6	540.7	545.5	518.1	503.1	484.0	460.7	458.0
47.5°	2980.3	2818.3	1644.6	650.1	494.2	525.0	499.7	476.4	448.4	433.4	431.3
50°	3534.7	3236.0	1682.2	574.2	452.5	499.0	473.7	442.9	415.6	411.5	410.8
52.5°	4190.9	3728.8	1728.7	505.8	419.7	465.5	447.7	416.3	394.4	396.5	396.5
55°	4888.8	4238.8	1730.1	451.8	391.0	426.5	428.6	403.3	386.2	393.0	395.1
57.5°	5525.2	4684.4	1594.1	413.6	363.7	395.8	422.4	408.1	395.1	419.0	421.1
60°	6080.3	5027.6	1301.5	382.1	341.1	384.2	436.1	437.5	434.7	499.7	504.5
62.5°	6283.3	5031.0	924.2	355.5	328.8	391.0	464.8	466.9	466.9	527.0	535.9
65°	5998.9	4612.0	615.2	339.7	320.6	406.0	488.1	479.2	458.0	499.7	490.1
67.5°	4996.8	3590.1	449.8	329.5	309.0	406.7	508.6	486.0	449.8	485.3	468.9
70°	3434.2	2284.5	376.6	319.9	295.3	388.9	519.5	484.0	437.5	452.5	430.6
71°	2764.3	1823.1	357.5	316.5	289.8	378.7	520.9	481.2	431.3	440.9	421.1
72.5°	1821.0	1123.1	334.3	309.0	281.6	360.9	517.5	475.1	423.1	423.8	410.8
75°	718.4	465.5	300.8	291.9	258.4	332.2	502.4	462.1	407.4	393.7	388.3
77.5°	363.0	304.2	264.5	268.0	231.0	302.8	481.2	440.9	385.5	367.1	363.0
80°	265.2	231.0	226.3	232.4	200.3	274.1	454.6	412.2	357.5	376.6	368.4
82.5°	161.3	140.8	177.0	192.1	167.5	244.7	423.1	378.7	322.0	296.7	287.1
85°	76.6	82.7	127.8	141.5	123.7	195.5	386.9	341.8	280.9	242.7	246.8
87.5°	37.6	45.8	73.1	84.8	81.3	143.5	291.9	265.2	221.5	182.5	178.4
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)