

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: P199281

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199281
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-8030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10667 lumens
Efficiency: N/A
Efficacy: 83.3 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

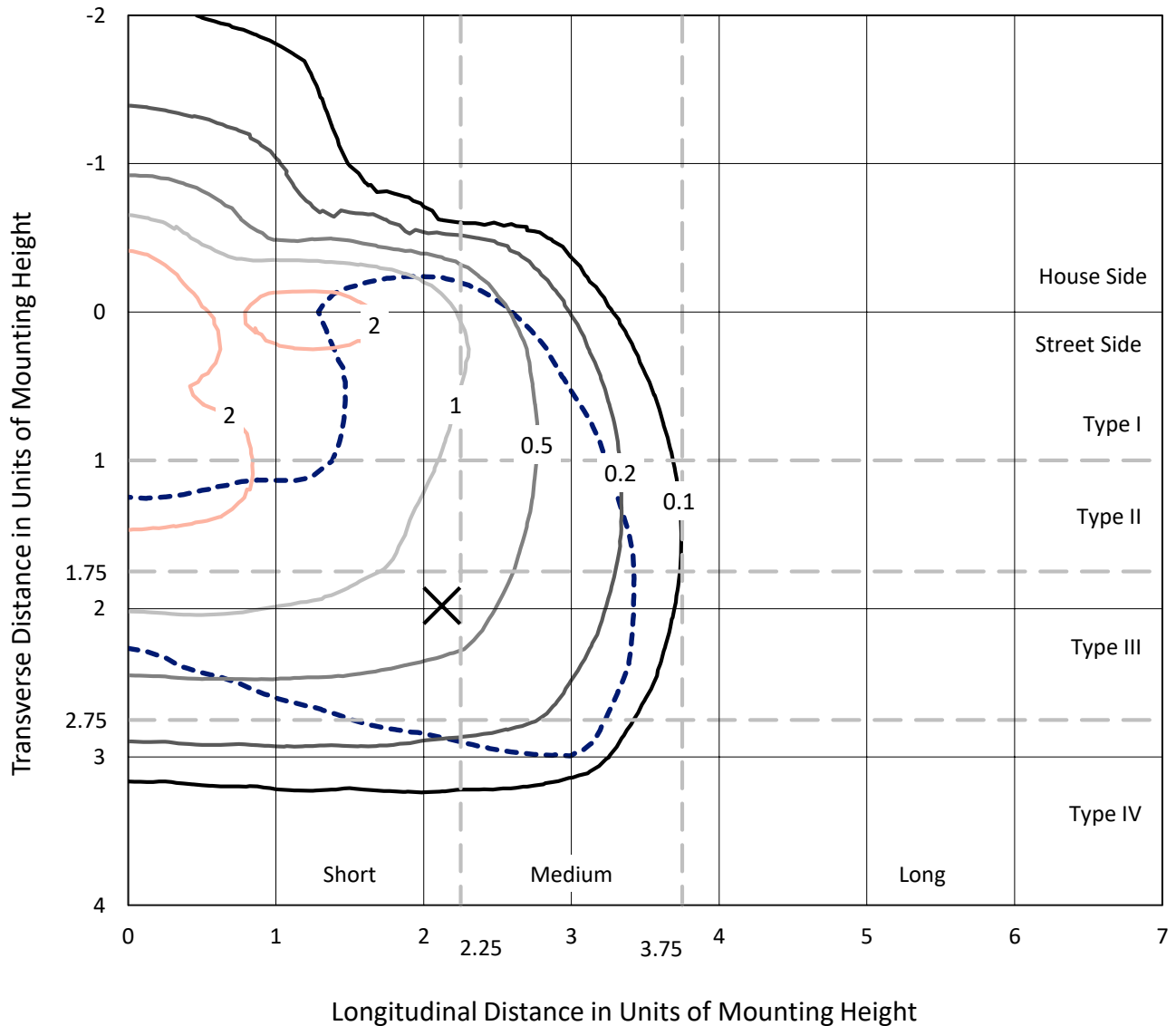
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

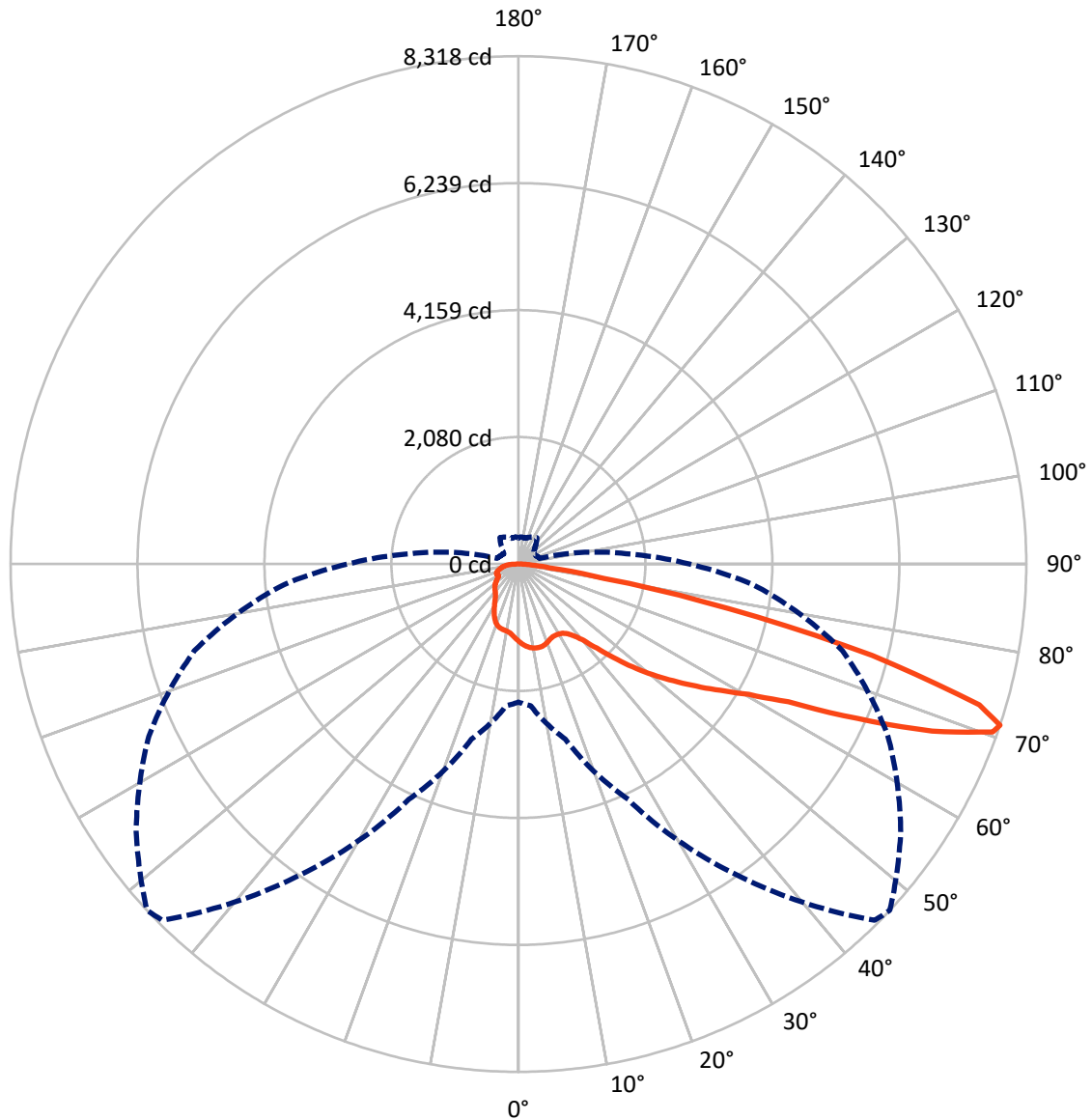


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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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	2286.1	0.0	2286.1
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	8380.9	0.0	8380.9
	% Fixture	78.6	0.0	78.6
Total	Lumens	10667.0	0.0	10667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	1.1
10°-20°	354.3	3.3
20°-30°	526.5	4.9
30°-40°	756.0	7.1
40°-50°	1340.4	12.6
50°-60°	2293.6	21.5
60°-70°	3256.2	30.5
70°-80°	1783.4	16.7
80°-90°	235.4	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°	10667.0	100.0
0°-180°	10667.0	100.0

Coefficient of Utilization



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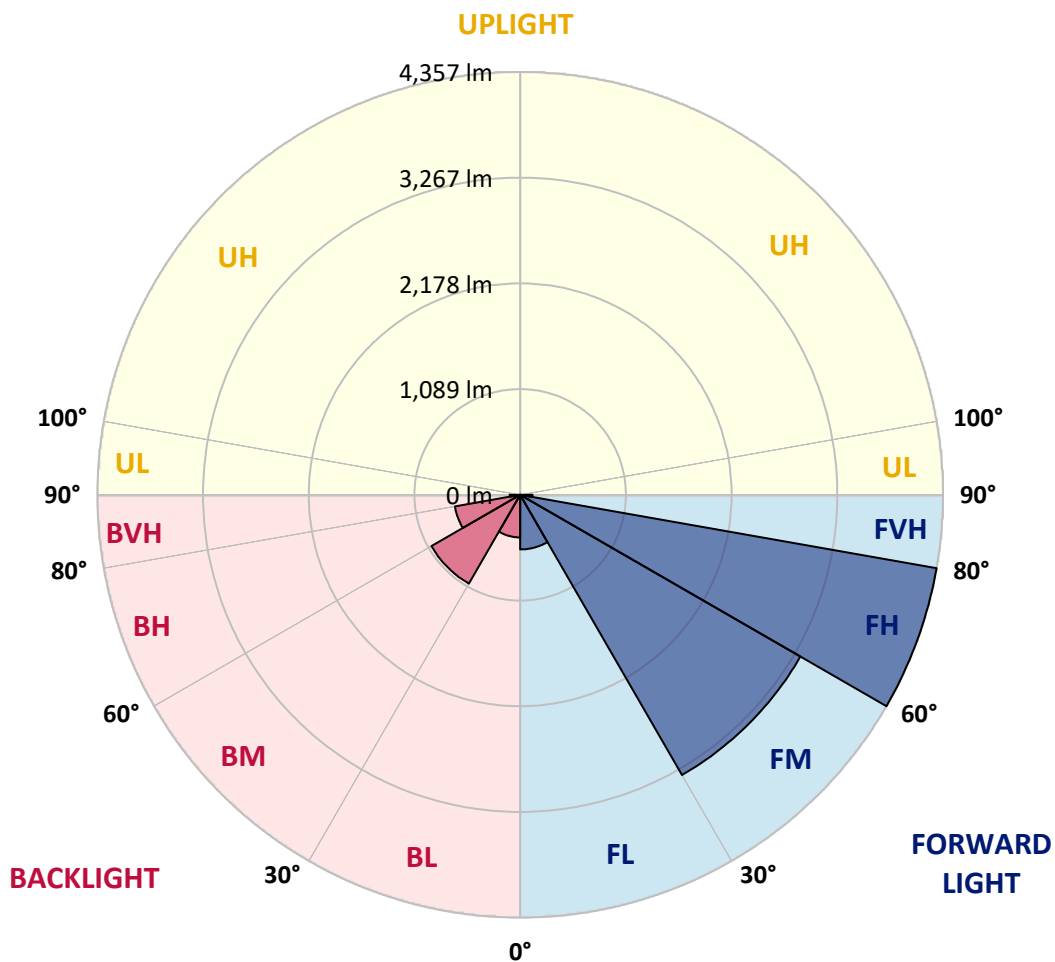
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.0	5.3			
FM	(30°-60°)	3333.8	31.3			
FH	(60°-80°)	4356.5	40.8			G2/5000
FVH	(80°-90°)	127.7	1.2			G2/225
BL	(0°-30°)	439.0	4.1	B1/500		
BM	(30°-60°)	1056.3	9.9	B2/2500		
BH	(60°-80°)	683.1	6.4	B2/1000		G2/1000
BVH	(80°-90°)	107.7	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°	47°	55°	65°	75°	85°
0°	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5
2.5°	1345.9	1343.1	1344.5	1339.7	1327.9	1315.5	1315.5	1302.4	1288.5	1274.7	1259.5
5°	1429.6	1425.4	1421.9	1406.7	1383.9	1358.4	1354.2	1327.9	1299.6	1271.3	1243.6
7.5°	1499.4	1495.2	1484.9	1457.2	1424.0	1386.0	1381.2	1346.6	1309.3	1269.9	1231.2
10°	1549.1	1546.4	1526.3	1491.1	1452.4	1407.4	1399.1	1363.9	1319.6	1270.6	1221.5
12.5°	1576.8	1572.6	1548.5	1507.0	1461.3	1415.7	1407.4	1373.6	1323.1	1269.2	1211.8
15°	1565.7	1563.7	1540.8	1498.7	1453.1	1413.7	1406.7	1372.2	1321.0	1264.3	1202.8
17.5°	1518.7	1523.6	1505.6	1464.1	1426.8	1399.1	1391.5	1359.0	1310.7	1252.6	1189.0
20°	1453.7	1459.3	1450.3	1408.1	1386.7	1368.7	1364.6	1338.3	1293.4	1235.3	1172.4
22.5°	1384.6	1389.5	1390.1	1350.7	1343.8	1336.9	1333.5	1314.8	1278.2	1224.9	1161.3
25°	1336.9	1342.5	1343.8	1309.3	1313.4	1315.5	1314.8	1301.7	1275.4	1224.9	1162.7
27.5°	1324.5	1327.2	1325.9	1294.1	1301.7	1313.4	1314.1	1311.3	1286.5	1238.8	1182.1
30°	1367.3	1368.7	1351.4	1303.7	1311.3	1326.6	1327.2	1325.9	1310.0	1274.7	1225.6
32.5°	1552.6	1551.2	1491.8	1368.7	1342.5	1348.0	1350.1	1362.5	1363.9	1334.2	1288.5
35°	1834.6	1833.9	1764.8	1554.7	1430.9	1401.9	1404.7	1424.0	1441.3	1421.3	1395.0
37.5°	2145.0	2147.1	2104.9	1820.1	1621.7	1500.8	1498.0	1512.5	1543.6	1550.5	1554.0
40°	2489.3	2499.6	2497.6	2125.0	1889.2	1669.4	1641.8	1625.2	1685.3	1723.3	1772.4
42.5°	2882.6	2879.8	2881.2	2459.5	2194.8	1934.9	1883.7	1806.3	1876.1	1941.8	2049.6
45°	3220.6	3231.7	3240.0	2815.6	2537.0	2238.3	2186.5	2045.5	2108.4	2206.5	2371.1
47.5°	3560.7	3541.4	3556.6	3211.7	2917.9	2584.7	2517.6	2327.5	2386.3	2524.5	2774.8
50°	3956.8	3947.9	3878.7	3728.7	3378.2	2935.8	2848.0	2622.0	2707.7	2892.3	3273.2
52.5°	4312.2	4263.8	4209.8	4135.2	3831.0	3291.1	3179.9	2928.2	3085.8	3314.7	3891.9
55°	4442.1	4409.6	4474.6	4571.4	4310.1	3653.4	3528.9	3285.6	3512.4	3797.9	4619.8
57.5°	4580.4	4591.4	4738.0	4933.6	4763.6	4039.8	3905.0	3708.7	3980.3	4338.4	5433.4
60°	4649.5	4693.7	4986.1	5353.2	5194.9	4463.5	4334.3	4194.6	4499.5	4935.7	6245.0
62.5°	4661.3	4720.7	5134.8	5500.5	5788.7	5112.7	4963.3	4811.9	5147.9	5595.9	6832.5
65°	4445.6	4536.8	5121.6	5681.6	6330.0	6197.3	6102.6	5838.5	6016.1	6177.2	6932.8
67.5°	3811.7	3911.2	4614.9	5606.9	6764.1	7322.6	7304.7	6914.8	6686.7	6401.9	6189.7
70°	2797.6	2877.8	3553.8	4793.3	6574.7	8206.1	8237.9	7612.3	6874.0	5924.9	4602.5
71°	2262.5	2331.7	2969.0	4255.5	6205.6	8251.7	8318.1	7643.4	6679.1	5494.2	3853.2
72.5°	1408.1	1446.8	1971.5	3211.7	5343.5	7781.7	7893.6	7245.2	6065.2	4644.0	2723.6
75°	531.6	546.8	731.4	1416.4	3189.5	5846.1	5981.6	5475.6	4261.0	2651.0	1139.9
77.5°	285.5	293.1	362.9	589.0	1278.2	3351.3	3525.5	3123.2	2044.1	927.7	465.9
80°	191.5	196.3	250.9	349.1	587.6	1276.1	1421.3	1254.0	765.2	529.5	331.8
82.5°	123.7	126.5	170.7	229.5	379.5	448.6	512.2	535.0	477.7	379.5	200.5
85°	81.6	83.6	112.7	146.5	235.0	221.2	226.7	296.6	325.6	250.2	102.3
87.5°	47.0	48.4	67.7	75.3	105.8	83.0	89.9	141.0	193.6	163.1	58.8
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°	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5
2.5°	1252.6	1247.1	1234.6	1227.0	1223.6	1222.2	1220.8	1223.6	1223.6	1222.2	1219.4
5°	1229.8	1219.4	1198.7	1184.1	1176.5	1174.5	1177.2	1180.7	1182.8	1182.8	1180.7
7.5°	1213.2	1198.0	1170.3	1150.3	1138.5	1135.1	1142.7	1155.1	1163.4	1167.6	1168.3
10°	1199.4	1178.6	1148.2	1127.5	1117.8	1116.4	1126.1	1142.0	1159.3	1166.9	1168.3
12.5°	1186.9	1163.4	1130.2	1110.9	1104.0	1107.4	1120.6	1135.1	1155.1	1166.2	1166.9
15°	1175.2	1151.0	1115.7	1095.7	1094.3	1099.8	1112.3	1124.0	1139.2	1153.0	1153.0
17.5°	1161.3	1135.1	1098.4	1079.8	1079.8	1084.6	1092.9	1099.1	1108.8	1121.9	1121.2
20°	1144.7	1117.8	1080.5	1061.1	1057.0	1054.2	1054.2	1055.6	1063.9	1075.6	1077.7
22.5°	1132.3	1104.7	1065.3	1041.7	1023.1	1005.1	997.5	994.7	1002.3	1013.4	1016.2
25°	1132.3	1104.7	1060.4	1021.0	975.4	940.8	926.3	922.2	929.8	940.1	944.3
27.5°	1151.0	1123.3	1071.5	1002.3	918.7	863.4	846.1	842.7	849.6	857.9	862.0
30°	1194.5	1167.6	1103.3	980.9	855.8	783.2	763.9	760.4	763.9	767.3	772.2
32.5°	1267.1	1244.3	1155.1	961.6	792.2	710.6	687.1	681.6	683.0	683.7	687.8
35°	1385.3	1374.9	1224.2	938.7	732.1	651.2	627.0	615.9	615.2	618.7	623.5
37.5°	1566.4	1572.6	1313.4	905.6	682.3	609.0	584.8	573.8	568.2	575.1	580.7
40°	1822.2	1836.7	1416.4	860.6	641.5	584.1	558.5	548.2	540.6	538.5	541.3
42.5°	2154.7	2150.5	1521.5	803.3	597.3	567.5	540.6	529.5	517.1	501.2	497.7
45°	2548.7	2489.3	1609.3	732.7	546.8	551.6	524.0	508.8	489.4	465.9	463.2
47.5°	3013.9	2850.1	1663.2	657.4	499.8	530.9	505.3	481.8	453.5	438.3	436.2
50°	3574.6	3272.5	1701.2	580.7	457.6	504.6	479.1	447.9	420.3	416.1	415.5
52.5°	4238.2	3770.9	1748.2	511.5	424.4	470.8	452.8	421.0	398.9	400.9	400.9
55°	4944.0	4286.6	1749.6	456.9	395.4	431.4	433.4	407.9	390.6	397.5	399.6
57.5°	5587.6	4737.3	1612.0	418.2	367.8	400.2	427.2	412.7	399.6	423.8	425.8
60°	6148.9	5084.3	1316.2	386.4	344.9	388.5	441.0	442.4	439.6	505.3	510.2
62.5°	6354.2	5087.8	934.6	359.5	332.5	395.4	470.1	472.1	472.1	533.0	542.0
65°	6066.6	4664.0	622.1	343.6	324.2	410.6	493.6	484.6	463.2	505.3	495.6
67.5°	5053.2	3630.6	454.9	333.2	312.5	411.3	514.3	491.5	454.9	490.8	474.2
70°	3473.0	2310.2	380.9	323.5	298.6	393.3	525.4	489.4	442.4	457.6	435.5
71°	2795.5	1843.6	361.5	320.1	293.1	383.0	526.7	486.7	436.2	445.9	425.8
72.5°	1841.5	1135.8	338.0	312.5	284.8	365.0	523.3	480.4	427.9	428.6	415.5
75°	726.5	470.8	304.2	295.2	261.3	336.0	508.1	467.3	412.0	398.2	392.6
77.5°	367.1	307.6	267.5	271.0	233.7	306.2	486.7	445.9	389.9	371.2	367.1
80°	268.2	233.7	228.8	235.0	202.5	277.2	459.7	416.8	361.5	380.9	372.6
82.5°	163.1	142.4	179.0	194.2	169.4	247.5	427.9	383.0	325.6	300.0	290.3
85°	77.4	83.6	129.3	143.1	125.1	197.7	391.3	345.6	284.1	245.4	249.5
87.5°	38.0	46.3	74.0	85.7	82.3	145.2	295.2	268.2	224.0	184.6	180.4
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)