

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: P199271

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT-8030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9918 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

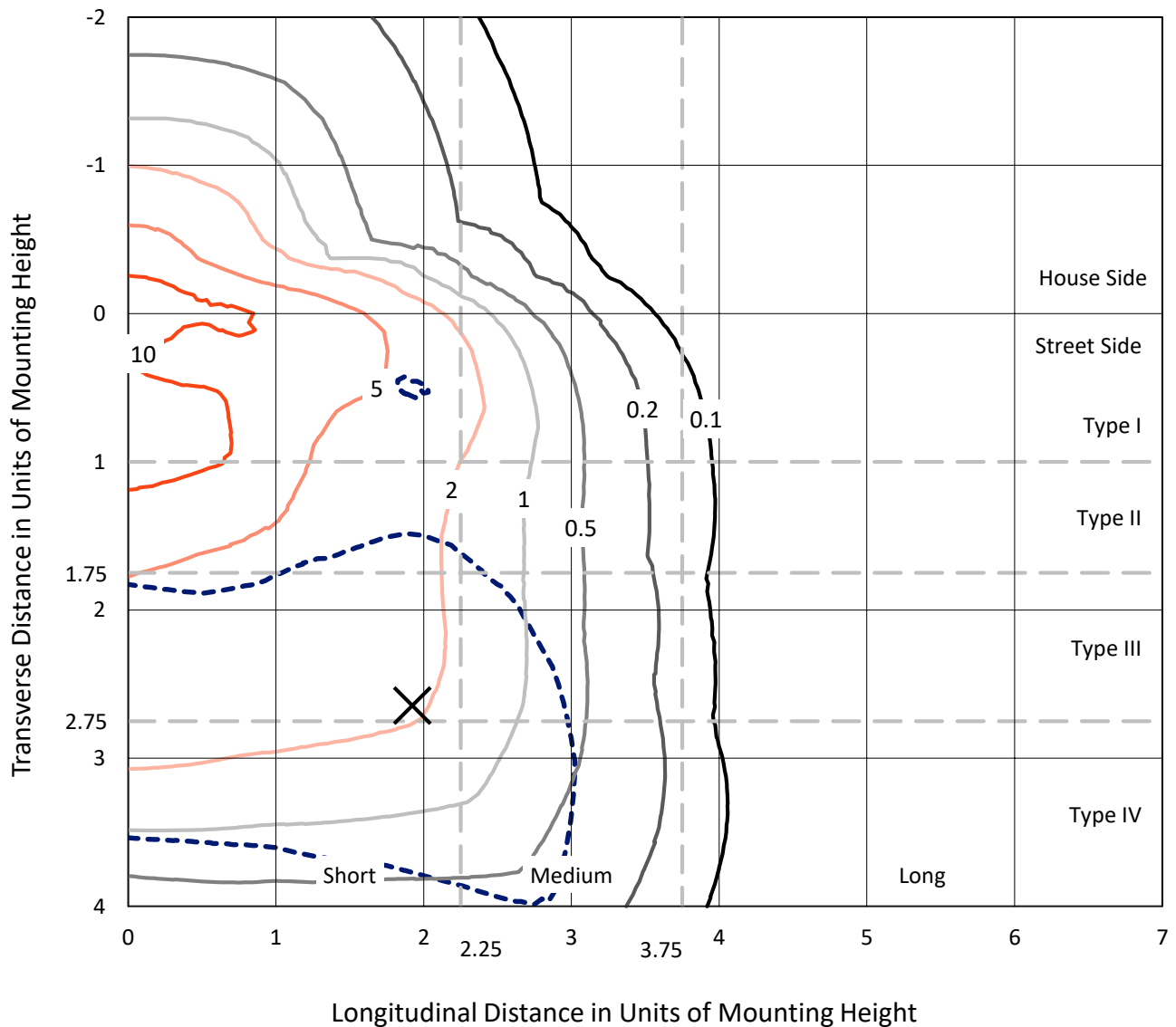


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

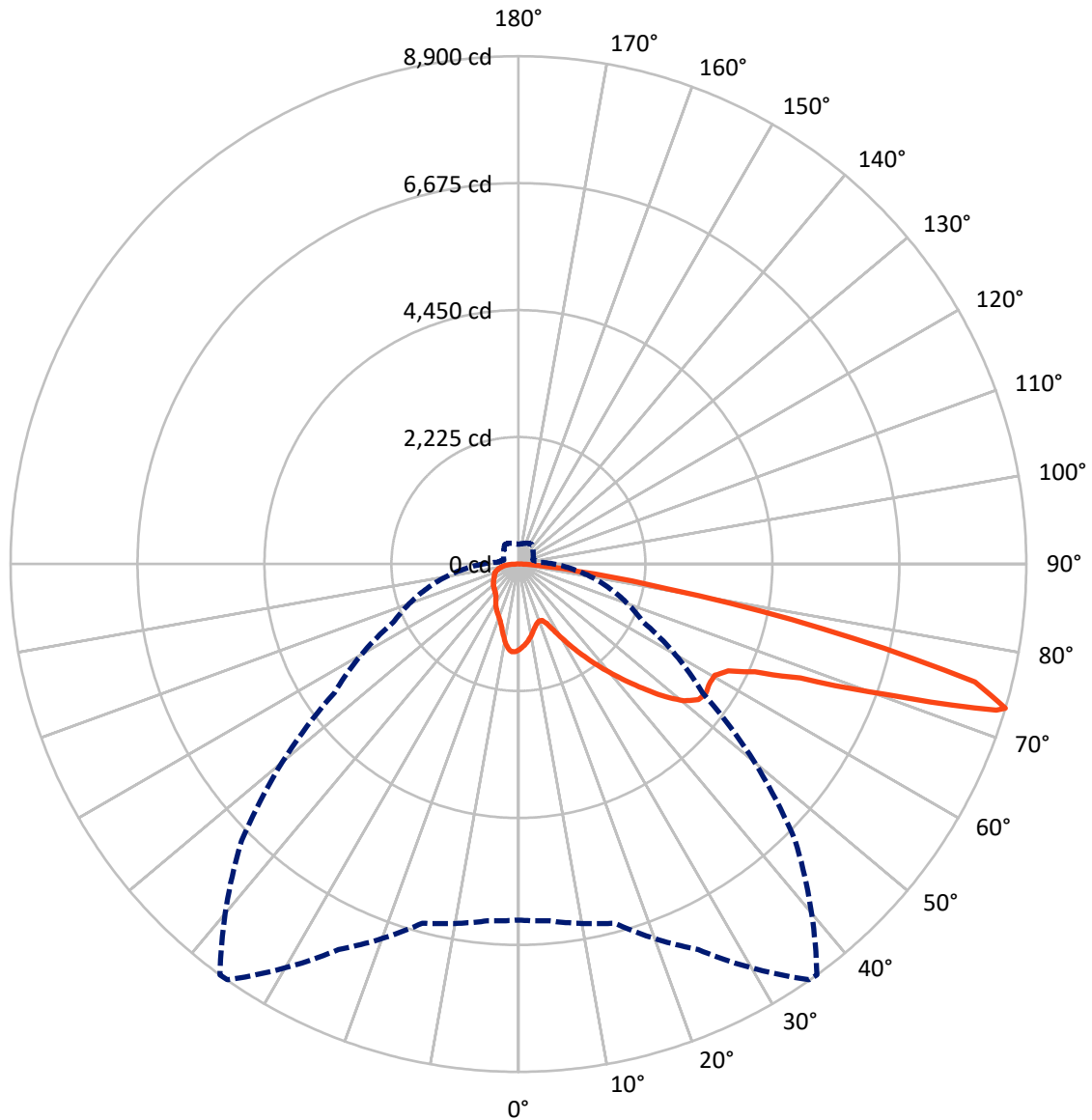


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1912.5	0.0	1912.5
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	8005.5	0.0	8005.5
	% Fixture	80.7	0.0	80.7
Total	Lumens	9918.0	0.0	9918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.4
10°-20°	342.7	3.5
20°-30°	549.4	5.5
30°-40°	908.8	9.2
40°-50°	1406.3	14.2
50°-60°	1882.6	19.0
60°-70°	2459.3	24.8
70°-80°	2008.8	20.3
80°-90°	223.6	2.3
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°	9918.0	100.0
0°-180°	9918.0	100.0



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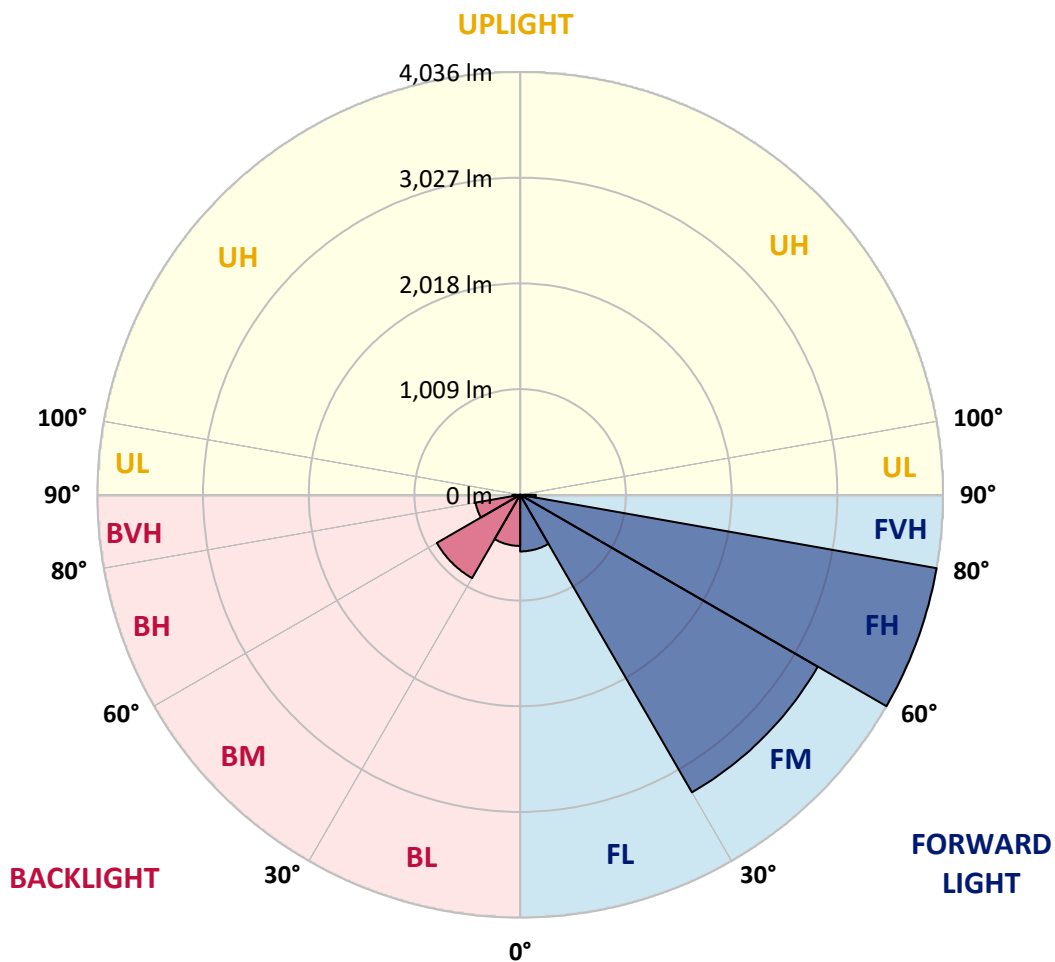
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.4	5.4			
FM	(30°-60°)	3279.2	33.1			
FH	(60°-80°)	4035.9	40.7			G2/5000
FVH	(80°-90°)	150.0	1.5			G2/225
BL	(0°-30°)	488.2	4.9	B1/500		
BM	(30°-60°)	918.5	9.3	B1/1000		
BH	(60°-80°)	432.2	4.4	B1/500		G1/500
BVH	(80°-90°)	73.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3
2.5°	1444.9	1448.7	1449.4	1453.8	1453.8	1453.1	1455.0	1462.6	1466.4	1475.2	1482.8
5°	1373.7	1378.1	1380.0	1387.6	1397.1	1397.7	1404.6	1419.1	1433.0	1452.5	1468.9
7.5°	1293.7	1298.7	1303.8	1319.5	1333.4	1334.7	1347.9	1371.2	1389.5	1413.4	1443.1
10°	1216.2	1217.5	1222.5	1242.7	1260.9	1262.8	1281.7	1308.2	1332.8	1366.2	1399.6
12.5°	1152.6	1156.3	1155.1	1170.2	1186.0	1187.2	1212.4	1245.8	1281.7	1319.5	1359.2
15°	1130.5	1129.9	1116.6	1116.0	1122.9	1124.2	1148.8	1187.8	1228.2	1274.8	1325.8
17.5°	1145.6	1140.6	1105.9	1084.5	1080.1	1081.3	1099.6	1142.5	1185.3	1238.9	1300.0
20°	1228.8	1209.3	1128.0	1076.3	1061.8	1061.8	1072.5	1107.2	1154.4	1216.8	1293.7
22.5°	1426.0	1395.8	1222.5	1130.5	1079.5	1074.4	1066.2	1092.7	1145.0	1220.0	1319.5
25°	1674.3	1659.8	1395.8	1274.8	1169.6	1153.2	1099.0	1108.4	1164.5	1254.0	1390.1
27.5°	1904.3	1879.1	1623.3	1484.6	1335.9	1310.7	1196.0	1157.6	1211.2	1317.0	1492.2
30°	2038.6	2021.5	1857.1	1724.7	1547.7	1515.5	1351.1	1254.6	1294.3	1421.0	1637.1
32.5°	2184.7	2174.7	2091.5	1971.1	1777.0	1739.9	1551.4	1412.8	1421.6	1559.0	1811.7
35°	2326.5	2339.8	2292.5	2204.3	2024.1	1989.4	1820.5	1619.5	1578.5	1714.0	1998.2
37.5°	2496.7	2499.8	2470.2	2412.9	2283.7	2255.3	2116.1	1840.1	1749.3	1879.1	2178.4
40°	2836.3	2786.5	2670.6	2625.2	2548.3	2530.7	2371.9	2042.3	1908.1	2048.6	2348.6
42.5°	3203.7	3126.2	2944.7	2870.4	2839.5	2823.1	2584.9	2177.2	2056.8	2218.1	2515.6
45°	3499.9	3436.9	3259.2	3167.2	3170.9	3144.5	2770.8	2297.5	2218.1	2388.3	2702.1
47.5°	3791.6	3686.4	3487.3	3474.0	3518.2	3479.1	2948.5	2417.9	2386.4	2573.6	2888.6
50°	3810.5	3714.8	3634.1	3740.0	3815.6	3767.1	3109.8	2575.4	2560.9	2797.9	3129.3
52.5°	3580.5	3566.7	3689.6	3867.9	3993.3	3949.8	3241.5	2737.4	2739.3	3078.3	3422.4
55°	3496.7	3479.1	3626.5	3845.8	4015.3	3989.5	3339.8	2920.1	2937.2	3418.6	3736.8
57.5°	3637.9	3593.8	3622.8	3804.2	3963.7	3948.5	3441.9	3123.0	3153.9	3810.5	4027.3
60°	4075.8	3985.7	3832.0	3866.0	3965.6	3956.7	3588.1	3349.3	3400.9	4218.9	4211.3
62.5°	4731.8	4629.7	4316.6	4165.3	4143.3	4126.3	3829.4	3627.2	3653.0	4513.8	4104.2
65°	5451.5	5341.8	4969.4	4721.7	4591.9	4555.4	4218.9	3962.4	3800.5	4513.2	3687.0
67.5°	6259.3	6143.4	5772.2	5535.9	5395.4	5333.0	4850.9	4233.4	3752.6	4131.3	2950.4
70°	7086.7	6976.4	6806.3	6888.9	6950.6	6855.5	5846.6	4323.5	3408.5	3239.0	1981.2
72.5°	6647.5	6638.7	6767.9	7550.5	8740.9	8759.8	6841.0	4068.9	2633.4	1925.1	1056.1
73°	6239.8	6277.0	6516.4	7452.8	8894.0	8900.3	6860.5	3937.2	2417.9	1658.6	927.6
75°	3232.7	3484.8	4373.3	6043.2	8235.5	8265.1	6047.6	2980.6	1441.2	921.3	625.1
77.5°	865.8	854.5	1409.0	2944.1	5490.5	5451.5	3821.3	1443.1	690.6	577.9	438.6
80°	296.8	300.6	479.5	1076.9	2562.8	2654.2	1658.6	629.5	454.3	402.7	310.7
82.5°	151.2	156.3	250.8	458.1	1071.9	1049.2	533.7	370.5	304.4	244.5	173.9
85°	80.7	83.2	138.0	237.6	393.2	397.6	187.8	197.9	193.5	138.6	85.7
87.5°	39.7	41.0	66.2	104.6	145.6	140.5	65.5	85.7	95.2	78.1	47.3
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°	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3	1502.3
2.5°	1492.2	1492.2	1500.4	1514.3	1524.3	1533.8	1540.1	1550.2	1555.9	1555.2	1554.6
5°	1482.1	1488.4	1504.8	1521.8	1533.2	1540.7	1540.7	1545.1	1545.1	1543.2	1540.7
7.5°	1458.8	1469.5	1493.5	1508.6	1511.7	1503.5	1487.2	1474.6	1458.8	1450.6	1447.5
10°	1421.6	1435.5	1465.7	1472.7	1456.3	1427.3	1387.6	1353.6	1323.3	1309.5	1305.1
12.5°	1385.1	1403.4	1431.7	1421.0	1381.9	1325.2	1264.1	1217.5	1183.4	1170.2	1165.8
15°	1354.8	1376.9	1398.9	1365.5	1297.5	1218.7	1151.3	1107.8	1082.0	1071.9	1069.4
17.5°	1334.7	1360.5	1368.1	1305.7	1211.2	1122.9	1063.1	1034.7	1023.4	1019.0	1017.7
20°	1335.9	1364.9	1346.6	1247.7	1128.0	1039.1	999.4	991.2	991.2	991.2	990.6
22.5°	1370.6	1395.8	1337.8	1193.5	1047.9	968.5	951.5	958.5	963.5	963.5	962.9
25°	1442.4	1456.3	1344.1	1141.2	973.0	907.4	908.1	921.3	925.7	925.7	924.4
27.5°	1552.1	1540.7	1355.5	1083.2	899.2	852.0	860.8	872.8	875.9	874.0	873.4
30°	1689.4	1644.1	1364.9	1015.2	829.9	800.3	807.9	814.8	812.3	807.9	807.2
32.5°	1843.2	1749.3	1359.2	938.9	768.8	746.7	751.1	754.9	751.1	740.4	740.4
35°	1995.7	1844.5	1328.4	855.7	720.3	695.1	694.4	706.4	705.8	693.2	693.8
37.5°	2129.3	1919.5	1268.5	779.5	678.7	657.3	659.8	667.3	671.1	654.1	652.2
40°	2245.9	1971.1	1184.1	714.6	645.3	646.5	639.6	627.6	623.2	615.7	614.4
42.5°	2355.5	2007.0	1094.6	660.4	628.3	642.8	619.4	591.1	579.1	586.0	590.5
45°	2463.3	2047.4	1008.2	615.7	606.8	631.4	599.3	567.8	553.9	557.1	561.5
47.5°	2595.0	2103.5	904.3	567.8	574.1	610.6	586.7	552.6	531.9	519.2	515.5
50°	2768.3	2184.7	769.4	516.1	539.4	587.9	576.0	530.6	507.9	482.7	476.4
52.5°	2985.0	2261.6	633.3	474.5	511.1	568.4	558.3	511.7	484.0	453.7	448.7
55°	3201.2	2272.3	516.1	438.6	478.9	541.9	536.9	496.6	457.5	432.9	427.9
57.5°	3352.4	2170.9	437.3	408.3	448.0	509.2	517.4	478.3	435.4	416.5	413.4
60°	3354.9	1928.3	389.4	388.2	424.7	480.8	497.2	456.9	421.6	409.0	406.4
62.5°	3088.4	1554.0	358.6	373.1	407.7	457.5	482.1	444.9	418.4	413.4	410.9
65°	2588.7	1148.1	334.0	359.2	392.0	438.0	469.5	441.1	417.2	415.3	413.4
67.5°	1911.3	787.1	313.2	341.5	374.3	417.8	457.5	435.4	409.6	417.2	414.6
70°	1202.3	525.5	293.7	321.4	351.0	394.5	441.7	425.4	400.1	395.7	387.5
72.5°	678.7	380.0	270.3	295.5	320.7	363.6	420.3	408.3	378.7	361.1	352.9
73°	613.1	359.8	264.7	289.2	313.8	357.3	415.3	403.3	372.4	352.9	345.3
75°	448.7	294.3	238.8	263.4	284.8	328.3	391.3	378.1	344.7	321.4	316.3
77.5°	325.2	226.9	205.4	227.5	246.4	288.0	355.4	340.3	307.5	294.9	289.9
80°	234.4	172.0	170.1	191.6	208.0	250.2	317.0	301.2	269.7	306.9	298.7
82.5°	139.9	110.3	124.8	148.7	165.7	209.8	275.4	257.1	226.9	229.4	195.3
85°	66.8	62.4	77.5	97.7	109.6	143.7	229.4	214.9	181.5	148.7	145.6
87.5°	29.6	28.4	37.2	43.5	58.6	86.3	156.9	139.3	131.7	78.8	61.8
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)