

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: P198619

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-7030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7153 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

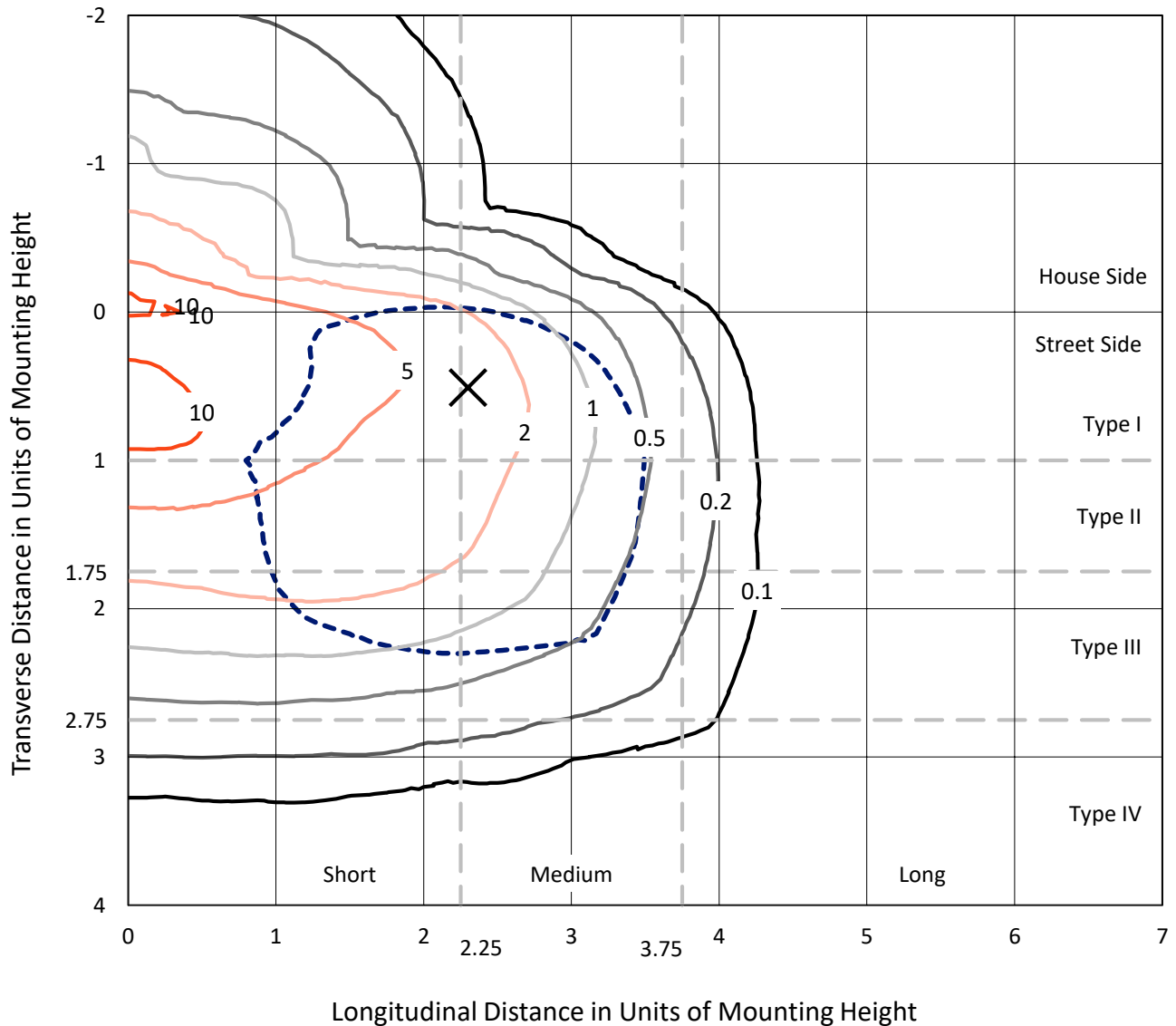


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

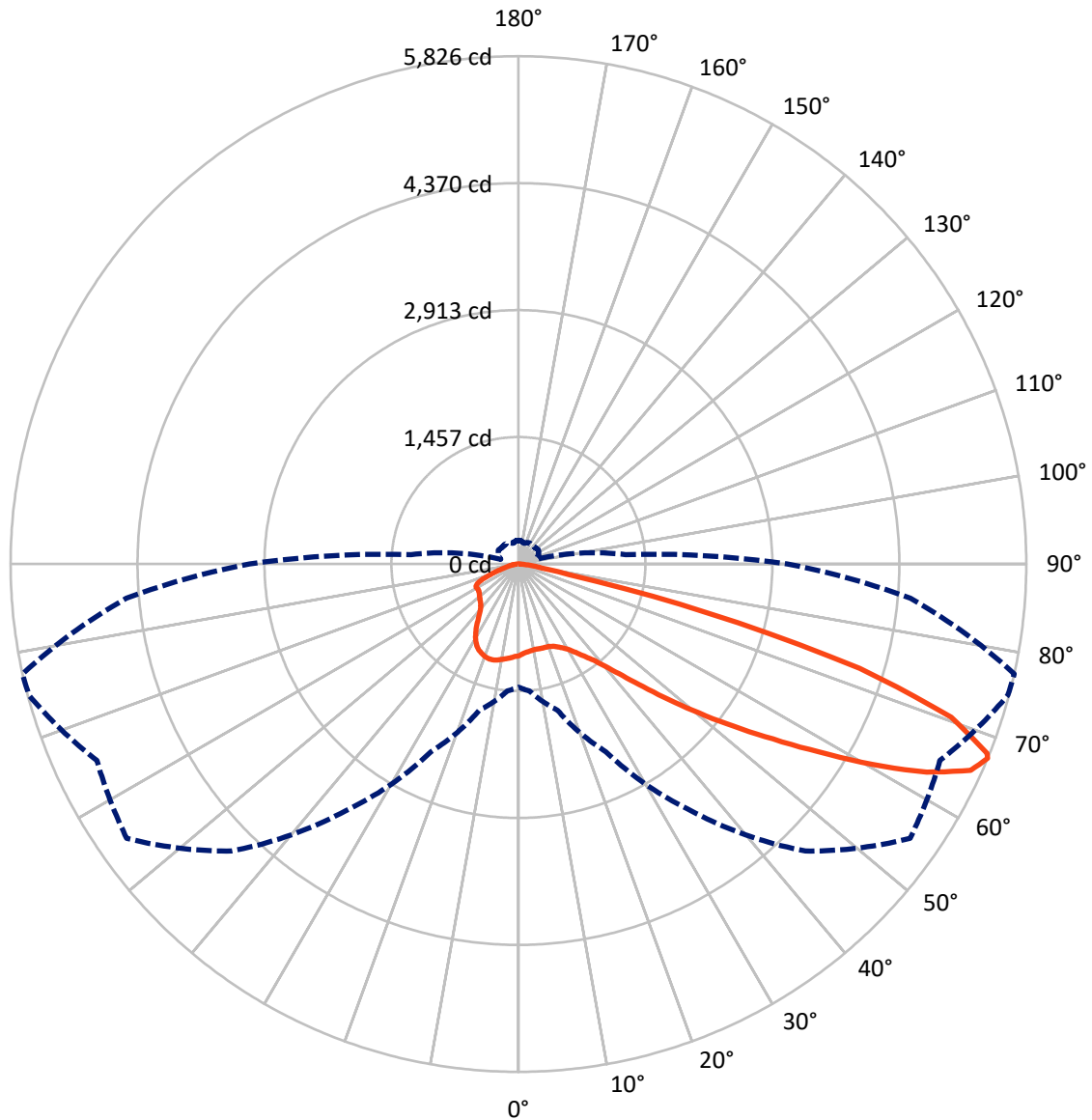


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1229.2	0.0	1229.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5923.8	0.0	5923.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	7153.0	0.0	7153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	1.3
10°-20°	259.7	3.6
20°-30°	441.2	6.2
30°-40°	705.8	9.9
40°-50°	1086.6	15.2
50°-60°	1507.5	21.1
60°-70°	2010.9	28.1
70°-80°	957.0	13.4
80°-90°	90.6	1.3
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°	7153.0	100.0
0°-180°	7153.0	100.0

Coefficient of Utilization



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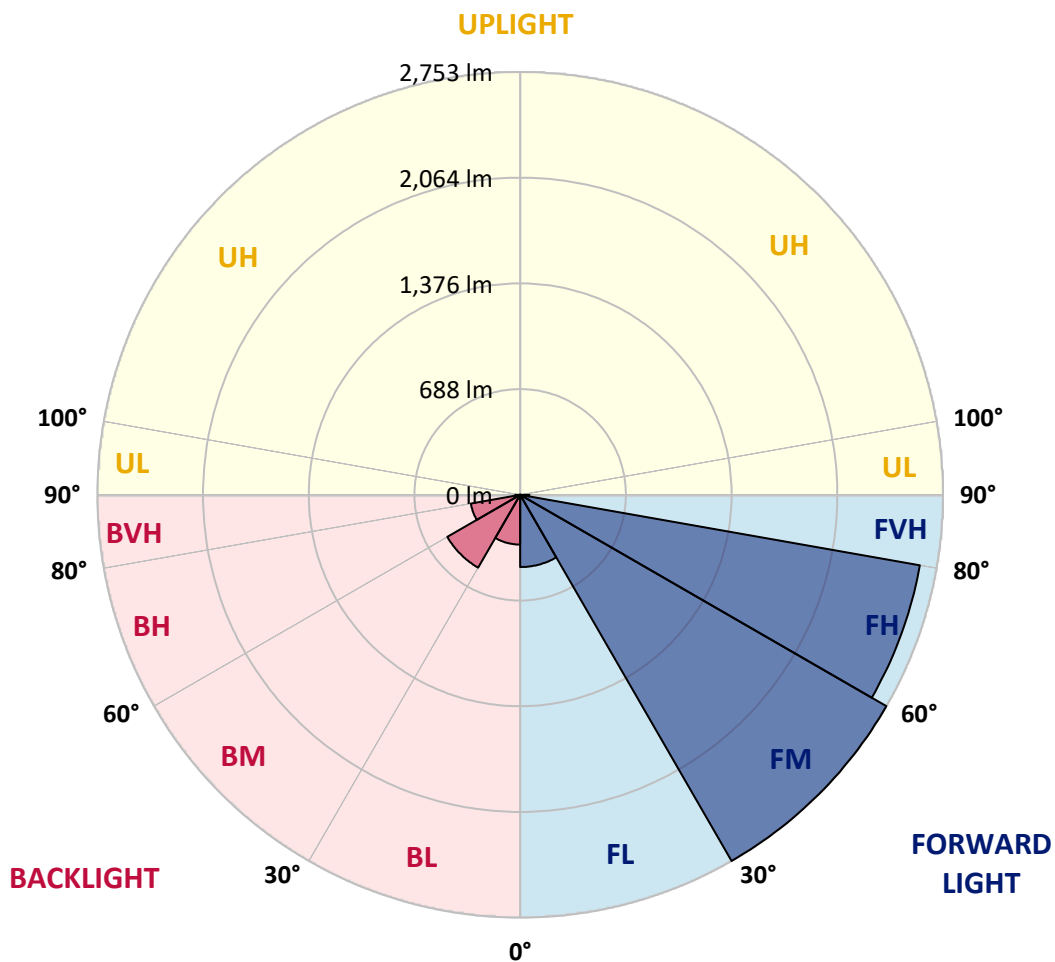
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.4	6.6			
FM (30°-60°)	2752.5	38.5			
FH (60°-80°)	2642.0	36.9			G2/5000
FVH (80°-90°)	58.8	0.8			G1/100
BL (0°-30°)	324.2	4.5	B1/500		
BM (30°-60°)	547.3	7.7	B1/1000		
BH (60°-80°)	325.9	4.6	B1/500		G1/500
BVH (80°-90°)	31.8	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	944.0	948.4	948.8	961.7	967.4	982.0	997.9	1012.1	1024.4	1028.9	1036.8
5°	849.3	849.3	850.7	859.1	875.4	898.9	932.0	968.3	1006.3	1015.6	1039.0
7.5°	799.8	800.7	801.6	810.0	822.8	843.6	876.8	926.3	989.5	1005.0	1046.1
10°	804.3	802.9	798.5	796.7	802.0	815.3	844.0	894.9	975.4	999.2	1058.9
12.5°	873.7	871.0	856.4	835.2	815.7	810.9	830.8	879.0	968.7	999.2	1080.6
15°	992.6	994.4	965.6	921.4	870.6	836.1	833.4	873.2	966.5	1001.9	1105.8
17.5°	1147.4	1148.2	1108.4	1044.3	959.9	888.7	851.6	873.2	966.5	1004.5	1130.1
20°	1311.8	1305.6	1260.5	1180.1	1070.4	961.7	884.7	878.5	969.2	1008.5	1153.1
22.5°	1452.9	1447.1	1399.8	1315.4	1189.8	1047.9	929.4	896.2	983.8	1024.9	1185.4
25°	1576.2	1579.8	1533.8	1438.7	1308.7	1145.1	996.1	936.9	1014.3	1054.5	1225.2
27.5°	1726.1	1719.5	1666.4	1575.8	1431.2	1245.9	1079.7	988.2	1050.5	1090.3	1273.8
30°	1899.4	1896.3	1824.7	1731.4	1566.1	1358.7	1162.4	1043.4	1097.8	1139.4	1334.8
32.5°	2109.9	2109.4	2032.5	1918.0	1717.7	1486.0	1260.1	1119.1	1166.8	1208.8	1415.7
35°	2348.2	2347.8	2268.2	2117.0	1892.4	1627.1	1375.1	1211.0	1252.1	1296.4	1512.1
37.5°	2513.6	2510.9	2469.3	2322.6	2085.6	1791.1	1518.7	1334.8	1349.0	1398.5	1628.4
40°	2545.4	2561.3	2597.1	2510.5	2296.5	1973.3	1662.9	1467.9	1481.2	1544.8	1774.7
42.5°	2510.9	2531.7	2650.6	2674.9	2507.4	2193.9	1843.3	1652.3	1669.1	1748.2	1946.7
45°	2480.8	2499.0	2648.0	2766.0	2715.6	2434.4	2068.3	1877.3	1909.2	2007.3	2143.0
47.5°	2429.6	2446.4	2595.8	2782.4	2834.6	2666.1	2339.4	2147.9	2202.7	2321.7	2366.8
50°	2426.9	2434.4	2524.6	2727.6	2875.7	2842.1	2639.6	2464.5	2548.5	2685.6	2614.4
52.5°	2359.7	2412.3	2494.1	2640.0	2876.6	2944.6	2935.4	2811.6	2941.1	3092.8	2885.8
55°	1948.5	2009.1	2392.4	2597.1	2871.3	3032.6	3205.5	3180.8	3383.2	3542.9	3190.0
57.5°	1819.4	1845.0	2098.8	2609.9	2915.5	3178.1	3475.7	3577.3	3889.1	4063.3	3554.8
60°	1784.0	1811.0	2040.0	2616.1	3035.3	3442.9	3842.2	4025.2	4483.7	4668.5	3969.1
62.5°	1744.7	1779.6	2044.5	2621.9	3245.7	3834.7	4328.5	4511.1	5094.3	5259.2	4357.3
65°	1629.7	1676.2	1962.7	2585.6	3476.1	4326.3	4971.4	5017.8	5598.8	5703.6	4591.6
67°	1411.8	1462.6	1738.0	2376.1	3454.9	4657.5	5485.6	5334.9	5813.2	5826.1	4515.6
67.5°	1342.8	1395.4	1662.0	2289.0	3394.3	4700.8	5576.7	5378.6	5811.5	5797.3	4444.8
70°	904.2	963.4	1177.0	1680.6	2722.7	4375.0	5554.6	5243.8	5430.4	5268.1	3818.8
72.5°	448.8	450.5	587.2	920.5	1649.6	3137.9	4633.6	4485.9	4401.9	4095.5	2802.3
75°	216.2	220.2	277.2	406.8	695.5	1620.0	3160.0	3026.9	2577.2	2231.5	1402.5
77.5°	164.9	168.9	215.3	264.8	290.0	528.4	1565.2	1265.0	746.8	596.4	395.3
80°	127.3	134.9	181.7	203.4	191.9	211.8	492.1	387.3	290.5	266.6	195.9
82.5°	99.5	103.9	154.3	154.3	132.6	141.9	229.0	223.7	180.4	162.7	105.2
85°	70.3	79.1	124.2	115.0	87.1	88.0	137.1	131.3	92.8	74.7	41.1
87.5°	31.4	40.2	88.4	75.2	46.4	35.8	56.2	48.2	36.7	28.3	19.0
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°	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1045.7	1052.7	1063.8	1070.4	1079.3	1082.8	1086.3	1092.5	1097.4	1096.1	1093.9
5°	1055.4	1067.3	1081.0	1085.5	1085.5	1081.0	1078.4	1078.8	1077.5	1076.6	1074.0
7.5°	1069.5	1085.9	1095.6	1091.2	1077.5	1060.3	1043.9	1034.2	1024.9	1019.1	1020.9
10°	1089.4	1107.6	1108.0	1088.5	1055.8	1018.2	986.0	965.2	945.3	936.5	939.1
12.5°	1118.2	1136.3	1120.8	1078.8	1021.3	962.5	903.3	860.4	821.9	812.7	810.0
15°	1149.1	1163.3	1128.8	1058.0	971.8	875.0	775.5	711.4	668.5	661.0	658.3
17.5°	1176.1	1184.0	1124.8	1020.9	893.6	741.0	625.2	581.9	573.0	577.4	577.4
20°	1200.0	1197.3	1107.6	963.4	770.2	592.5	525.3	524.8	536.8	547.8	548.7
22.5°	1230.0	1209.3	1080.1	878.1	623.0	494.3	482.8	494.3	507.6	520.0	521.3
25°	1265.8	1222.5	1043.4	756.5	500.9	448.8	453.6	463.4	471.8	481.5	481.9
27.5°	1301.7	1232.7	991.7	613.7	434.6	419.6	424.9	428.9	431.1	437.3	437.3
30°	1343.2	1240.6	917.0	491.7	404.1	393.9	390.9	389.1	390.9	399.3	399.7
32.5°	1395.4	1254.8	814.9	421.8	390.0	375.8	359.9	351.1	357.2	372.3	374.9
35°	1454.6	1271.6	692.4	393.9	385.1	367.0	337.8	324.1	326.3	340.0	342.2
37.5°	1528.9	1293.3	571.7	387.3	390.0	366.1	327.6	308.2	298.4	298.9	298.4
40°	1624.0	1314.9	476.2	389.1	400.6	368.3	322.8	292.3	271.9	272.8	274.6
42.5°	1723.5	1329.1	415.6	394.4	413.4	371.4	321.0	276.8	259.1	274.1	287.8
45°	1839.7	1325.1	384.2	399.3	423.1	372.7	314.4	275.0	260.4	305.5	331.2
47.5°	1973.3	1307.8	366.5	401.5	425.8	372.3	309.5	280.8	271.5	349.7	378.9
50°	2118.3	1280.9	352.4	397.9	424.5	370.5	314.8	287.8	275.9	359.5	382.0
52.5°	2277.0	1256.1	337.8	390.0	417.8	365.2	321.4	284.7	263.5	331.2	348.4
55°	2464.9	1250.4	321.4	376.3	406.8	359.5	317.9	275.0	249.8	293.6	304.2
57.5°	2679.8	1286.2	300.2	359.5	391.7	348.0	309.5	269.7	244.9	267.1	272.8
60°	2952.6	1365.3	277.7	341.8	373.2	330.7	302.0	271.0	246.3	263.1	264.4
62.5°	3165.7	1436.5	257.3	320.1	348.4	309.9	294.0	272.4	250.3	268.4	266.2
65°	3243.1	1401.6	232.1	287.8	313.5	286.9	283.0	273.2	250.3	271.5	266.6
67°	3084.4	1234.9	208.2	255.6	280.3	266.6	272.4	269.7	245.8	271.0	262.6
67.5°	3008.8	1176.1	202.1	250.3	271.5	260.4	269.7	267.9	244.5	270.1	260.4
70°	2481.3	843.6	170.7	210.0	227.3	229.5	253.3	256.4	233.9	253.8	236.1
72.5°	1765.5	527.9	147.2	162.7	183.5	196.3	231.2	241.0	219.7	220.6	206.0
75°	873.7	283.4	131.3	125.6	142.8	163.6	201.6	219.7	199.0	183.9	179.1
77.5°	294.9	160.5	111.0	101.2	111.0	131.3	167.1	191.9	175.5	155.6	152.5
80°	152.5	116.7	86.7	81.4	87.5	101.7	130.9	159.6	149.9	150.8	124.2
82.5°	95.1	71.2	62.3	61.9	66.3	77.8	96.4	129.5	128.7	110.1	80.0
85°	44.2	41.1	39.8	41.1	42.4	44.2	62.8	92.4	97.7	59.2	52.6
87.5°	18.6	18.1	15.9	17.2	19.0	18.6	25.2	39.4	54.8	37.1	34.0
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)