

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: P271347

Luminaire Tested: **XNV2-AF-02-LED-U-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
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-T3-7027-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8467.2 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

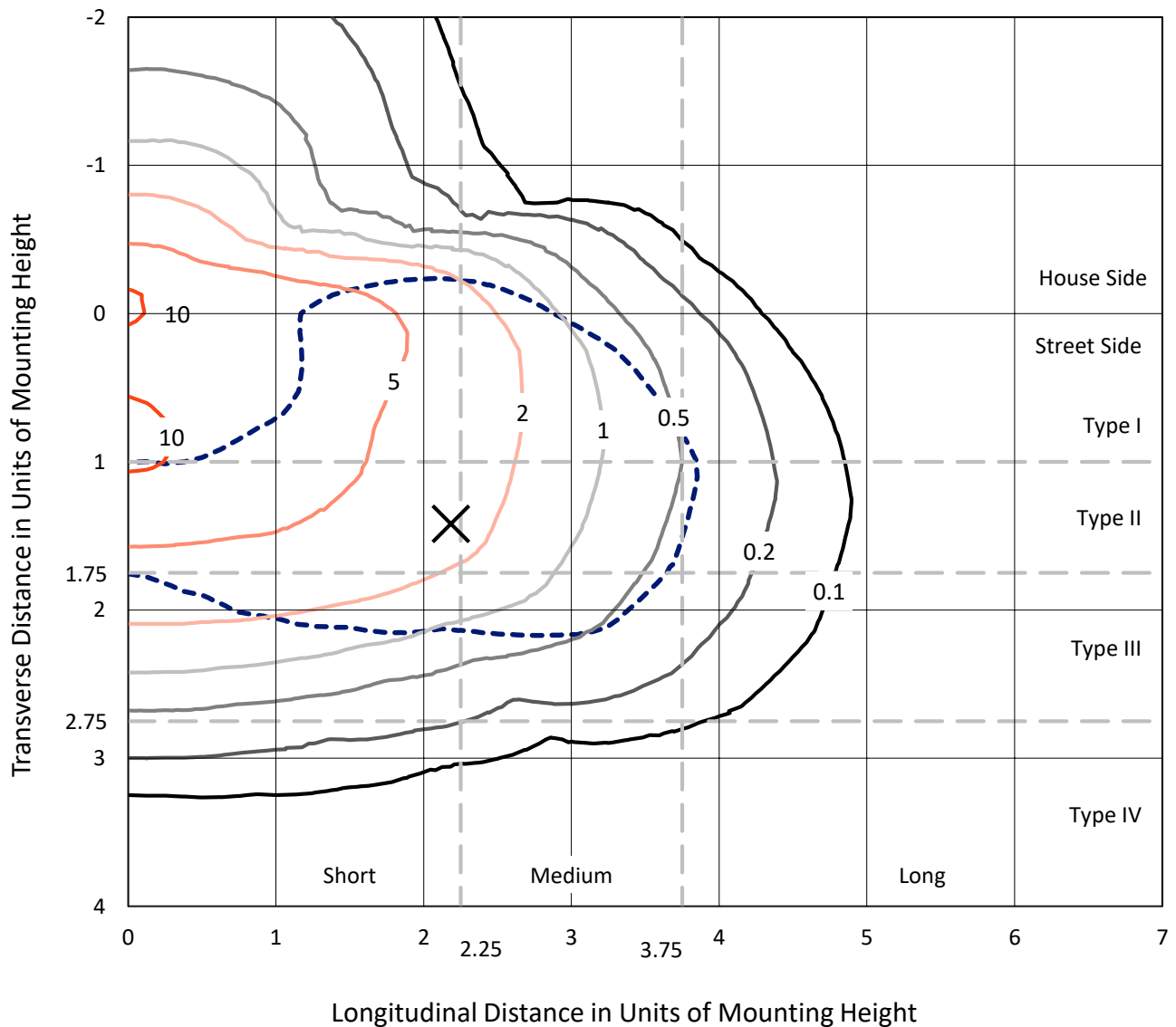


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Iso-Footcandle Lines of Horizontal Illumination

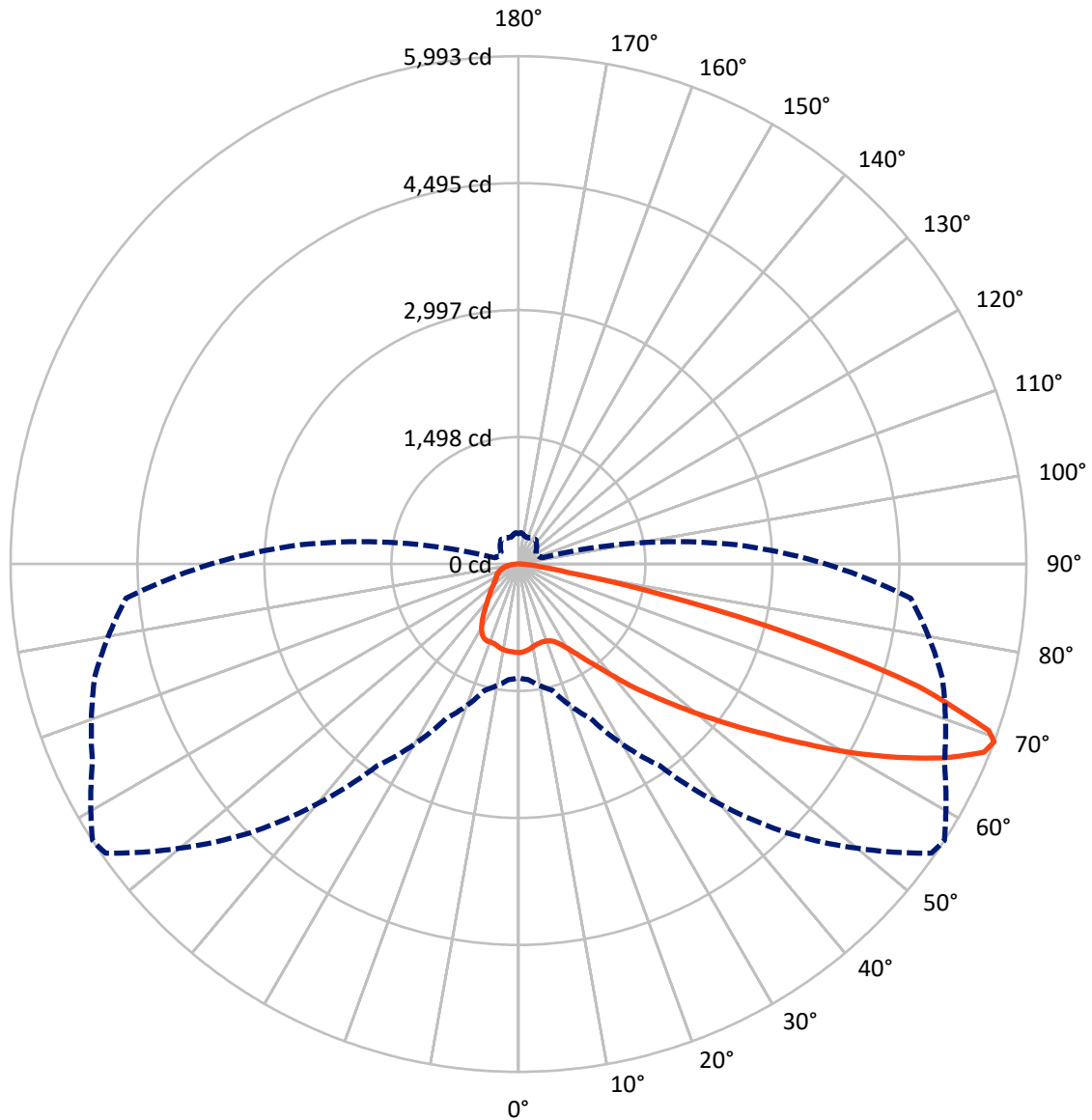
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1868.4	0.0	1868.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	6598.8	0.0	6598.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	8467.2	0.0	8467.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.2
10°-20°	278.5	3.3
20°-30°	463.3	5.5
30°-40°	756.5	8.9
40°-50°	1276.8	15.1
50°-60°	1986.1	23.5
60°-70°	2365.9	27.9
70°-80°	1102.2	13.0
80°-90°	140.2	1.7
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°	8467.2	100.0
0°-180°	8467.2	100.0

Coefficient of Utilization



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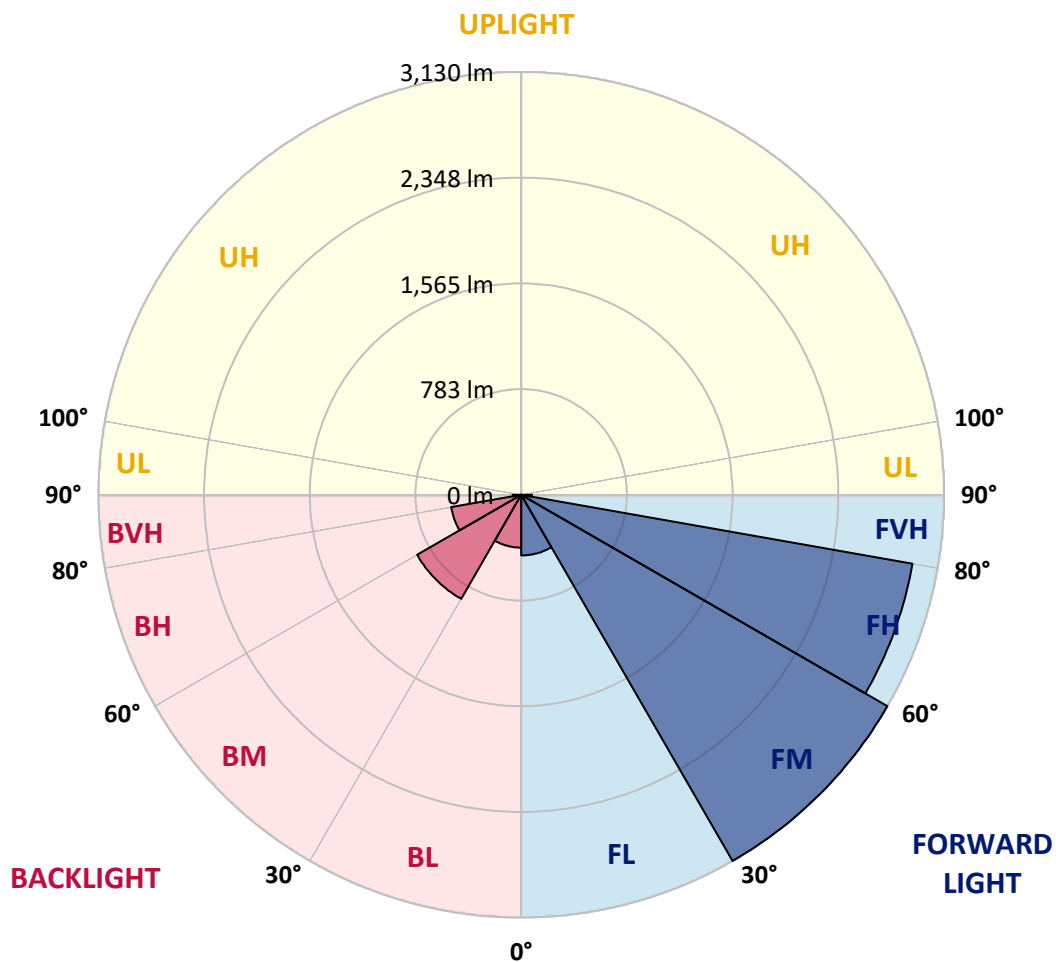
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.4	5.3			
FM	(30°-60°)	3130.1	37.0			
FH	(60°-80°)	2941.5	34.7			G2/5000
FVH	(80°-90°)	78.8	0.9			G1/100
BL	(0°-30°)	391.3	4.6	B1/500		
BM	(30°-60°)	889.3	10.5	B1/1000		
BH	(60°-80°)	526.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	61.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2
2.5°	1040.2	1040.2	1042.9	1042.9	1042.9	1041.9	1038.6	1039.7	1037.5	1035.9	1033.2
5°	1019.0	1020.1	1023.4	1024.5	1026.1	1026.8	1026.8	1026.1	1026.8	1026.8	1025.1
7.5°	989.8	990.9	994.8	996.8	1001.8	1006.1	1008.3	1008.3	1011.0	1013.2	1013.6
10°	972.0	972.0	974.1	974.1	978.0	980.1	987.1	986.6	994.2	1001.3	1004.5
12.5°	969.8	969.8	968.7	964.9	962.8	962.2	969.2	970.3	981.7	994.2	1000.2
15°	976.8	976.8	973.6	965.9	957.9	954.1	961.0	963.3	975.7	990.4	999.6
17.5°	999.6	999.0	992.0	976.8	962.8	956.8	958.9	961.0	972.4	989.4	1000.7
20°	1049.9	1049.9	1034.8	1007.2	982.7	968.7	965.5	967.0	975.2	990.9	1005.6
22.5°	1138.3	1139.9	1112.9	1067.4	1025.7	995.9	982.7	984.5	988.2	1003.3	1019.7
25°	1268.4	1264.2	1225.6	1161.1	1096.1	1045.1	1018.6	1020.1	1020.1	1034.3	1051.0
27.5°	1406.1	1407.3	1351.9	1282.6	1196.9	1121.1	1078.8	1078.1	1077.6	1091.3	1109.0
30°	1561.8	1562.2	1498.4	1418.1	1320.0	1223.0	1159.5	1159.0	1154.1	1170.9	1194.1
32.5°	1731.9	1731.5	1657.2	1566.6	1457.6	1347.5	1265.3	1264.6	1261.0	1283.7	1311.9
35°	1920.5	1920.5	1846.8	1735.2	1617.6	1495.0	1399.6	1399.1	1401.3	1432.2	1458.8
37.5°	2147.7	2152.6	2063.6	1928.2	1799.8	1669.1	1557.9	1554.6	1538.3	1590.4	1634.3
40°	2384.6	2398.1	2305.9	2147.7	2008.9	1874.0	1751.4	1749.3	1735.2	1790.5	1861.5
42.5°	2640.9	2671.9	2569.4	2407.8	2256.6	2110.8	1987.8	1981.8	1927.7	2013.8	2124.9
45°	2977.2	2997.1	2848.6	2702.2	2559.7	2393.3	2246.9	2215.0	2160.8	2271.4	2415.5
47.5°	3205.8	3196.1	3103.5	3005.3	2913.7	2754.4	2529.4	2488.7	2422.5	2569.0	2727.8
50°	3347.9	3354.9	3302.9	3297.9	3293.1	3181.9	2848.0	2799.3	2722.9	2896.3	3081.7
52.5°	3441.6	3409.6	3418.9	3529.5	3663.4	3610.3	3208.6	3154.4	3075.7	3249.2	3458.5
55°	3402.6	3360.3	3445.4	3663.4	3978.4	3990.2	3604.3	3548.5	3481.2	3624.3	3911.6
57.5°	3241.1	3262.3	3396.6	3699.7	4193.5	4330.6	4059.1	4002.2	3869.9	4015.2	4342.0
60°	3014.0	3056.8	3262.3	3642.2	4344.3	4595.6	4558.3	4520.5	4292.7	4395.6	4794.2
62.5°	2770.1	2812.4	3064.8	3544.2	4276.4	4830.5	5048.4	5025.1	4759.4	4762.2	5081.0
65°	2409.6	2427.0	2684.9	3276.3	4088.4	5042.4	5538.9	5518.4	5205.6	5075.0	5161.1
67.5°	1819.7	1841.4	2053.3	2586.3	3516.0	4927.6	5930.9	5927.6	5473.9	5190.9	4970.3
69°	1343.9	1370.4	1543.3	2007.8	2907.2	4489.5	5949.4	5993.2	5546.6	5179.0	4647.8
70°	983.4	1013.6	1173.5	1593.8	2421.4	4005.9	5791.6	5885.9	5518.8	5103.7	4396.2
72.5°	417.9	428.2	506.9	719.4	1228.3	2415.5	4743.7	4942.1	4984.4	4573.0	3434.6
75°	261.9	265.1	296.0	369.2	546.3	999.0	3071.9	3342.5	3721.4	3547.9	2299.5
77.5°	197.3	200.1	217.8	254.2	339.3	372.9	1425.2	1699.5	2131.5	2087.0	1144.4
80°	151.3	152.9	164.7	184.8	239.0	233.6	462.4	581.2	889.5	784.8	405.0
82.5°	118.8	119.3	129.5	133.4	166.9	157.3	232.0	258.5	359.4	298.6	197.8
85°	105.1	106.8	117.0	97.6	106.8	95.0	127.4	138.2	190.8	180.0	74.7
87.5°	53.7	56.4	98.2	83.5	53.7	44.9	55.9	60.1	77.6	84.0	36.3
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°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2
2.5°	1033.7	1034.3	1035.9	1038.6	1042.9	1048.4	1054.9	1061.3	1065.2	1067.8	1066.7
5°	1025.1	1025.7	1028.9	1033.7	1039.2	1047.3	1058.2	1066.3	1072.2	1076.0	1075.5
7.5°	1014.2	1015.9	1022.4	1027.8	1035.3	1041.9	1050.6	1058.2	1064.1	1067.8	1067.4
10°	1006.1	1007.7	1015.9	1022.9	1029.4	1030.4	1028.9	1026.8	1026.1	1028.9	1027.8
12.5°	1002.2	1005.6	1013.2	1018.0	1015.4	1005.1	993.0	988.2	986.6	992.0	992.5
15°	1003.3	1006.1	1012.6	1009.3	994.8	977.4	970.9	974.7	978.0	981.2	981.7
17.5°	1006.1	1007.7	1009.3	997.4	976.8	965.5	963.3	959.5	949.7	944.3	943.8
20°	1011.0	1013.2	1010.5	991.5	973.0	957.9	931.8	908.5	886.3	874.4	869.5
22.5°	1027.8	1029.4	1021.3	1002.9	974.7	925.3	872.8	832.5	798.5	780.1	773.0
25°	1060.9	1063.6	1052.2	1028.9	955.2	868.9	794.7	740.5	697.7	675.4	669.4
27.5°	1118.8	1121.5	1109.0	1048.4	909.7	793.7	703.6	650.0	613.2	594.0	591.4
30°	1205.5	1209.4	1198.0	1047.9	840.3	697.7	614.7	583.3	562.1	549.1	548.5
32.5°	1325.9	1340.0	1293.4	1029.4	754.5	600.6	547.4	536.6	526.3	517.8	517.8
35°	1478.8	1511.8	1387.7	990.9	660.3	534.5	510.1	499.7	486.8	477.5	476.6
37.5°	1661.4	1713.0	1455.0	922.6	579.0	502.5	487.3	470.5	450.0	432.1	427.8
40°	1912.4	1924.3	1488.0	811.4	518.2	485.2	466.2	445.0	419.0	398.9	396.8
42.5°	2164.6	2125.5	1481.6	692.2	483.6	469.5	444.5	421.1	397.9	381.2	381.2
45°	2451.3	2301.1	1432.2	572.4	452.0	451.6	424.4	402.3	384.4	371.9	369.2
47.5°	2725.5	2458.9	1347.1	484.0	419.6	433.6	411.5	393.5	377.3	365.4	363.2
50°	3058.4	2641.6	1256.5	422.3	388.2	417.9	406.0	396.8	381.2	360.5	358.3
52.5°	3389.0	2855.2	1186.7	375.6	360.5	405.5	409.3	410.3	395.8	355.5	352.9
55°	3744.1	3083.3	1112.9	339.3	337.8	399.4	416.9	415.7	408.6	356.6	352.3
57.5°	4081.9	3312.6	1002.9	313.9	319.8	393.5	418.5	401.2	388.6	362.0	355.1
60°	4361.6	3502.3	841.4	296.0	304.6	381.6	407.7	381.6	360.5	360.9	354.6
62.5°	4497.6	3555.5	643.5	275.4	292.2	362.0	391.9	367.0	347.5	363.2	359.4
65°	4394.1	3404.2	458.7	256.3	276.9	339.3	382.7	354.6	340.9	374.1	369.7
67.5°	4022.3	2992.3	332.8	239.6	262.3	316.1	365.4	343.2	334.4	382.1	372.3
69°	3627.0	2583.5	288.4	229.8	252.1	303.5	354.0	337.1	329.6	370.8	356.6
70°	3298.5	2268.6	266.2	223.9	243.4	296.5	345.3	333.5	324.6	357.3	340.4
72.5°	2365.1	1466.4	223.9	206.0	220.7	280.8	326.4	319.3	306.3	322.5	311.7
75°	1428.9	765.4	190.4	187.6	196.8	259.2	304.0	295.5	282.4	284.0	278.7
77.5°	656.4	353.5	159.4	165.8	171.8	232.0	276.9	267.2	255.3	250.9	251.5
80°	287.8	206.5	133.4	141.6	144.7	208.6	247.8	237.0	223.9	247.3	229.2
82.5°	155.5	119.8	104.1	109.6	118.8	181.5	215.2	201.1	188.6	219.5	177.2
85°	62.9	61.3	70.4	75.8	82.5	130.7	180.0	165.4	150.1	134.4	131.2
87.5°	27.0	29.3	34.7	36.9	43.8	81.2	120.9	105.7	106.3	91.1	89.4
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)