

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: P198947

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198947
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-7050-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 615mA 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: 8008 lumens
Efficiency: N/A
Efficacy: 121.3 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

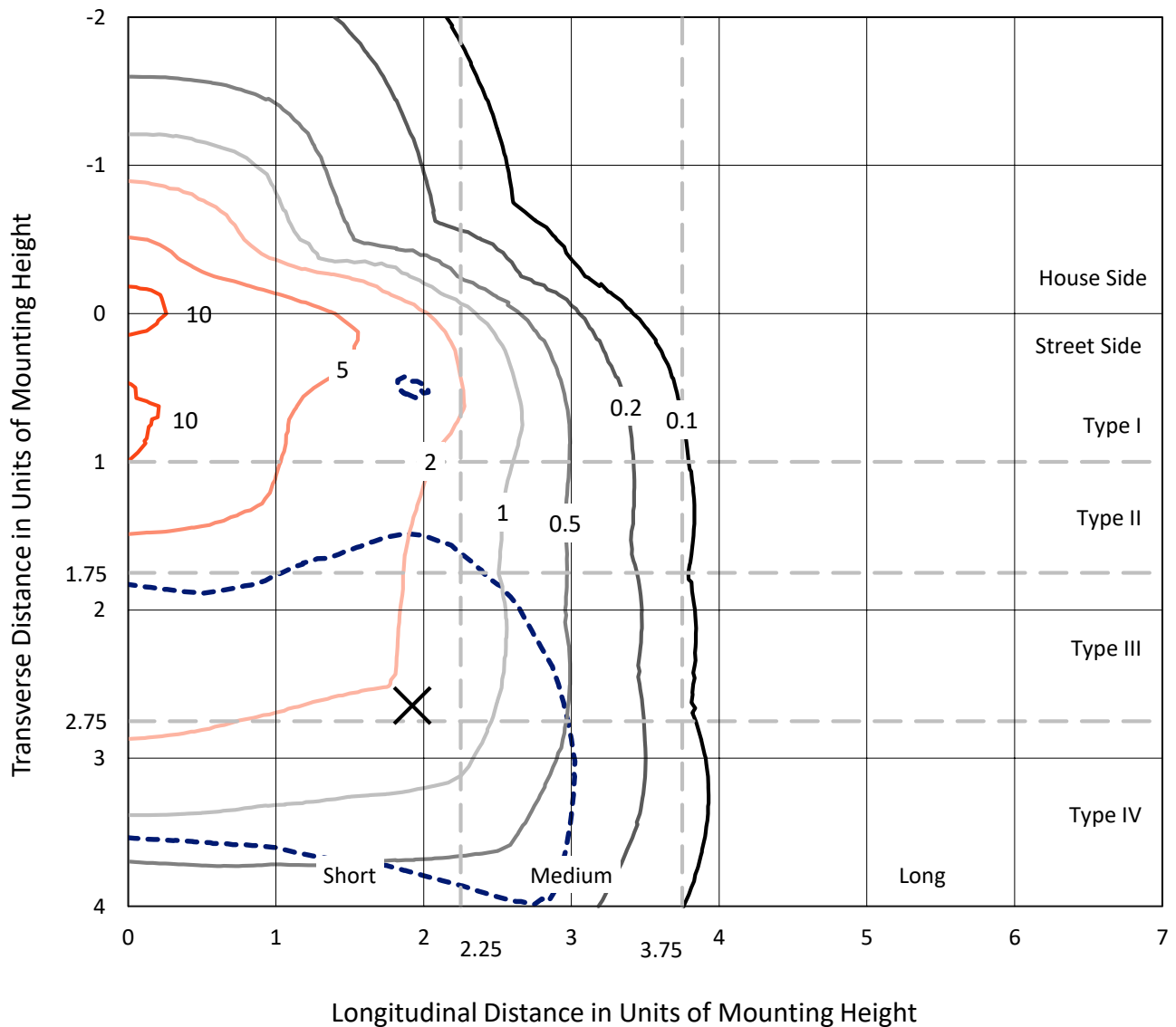
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

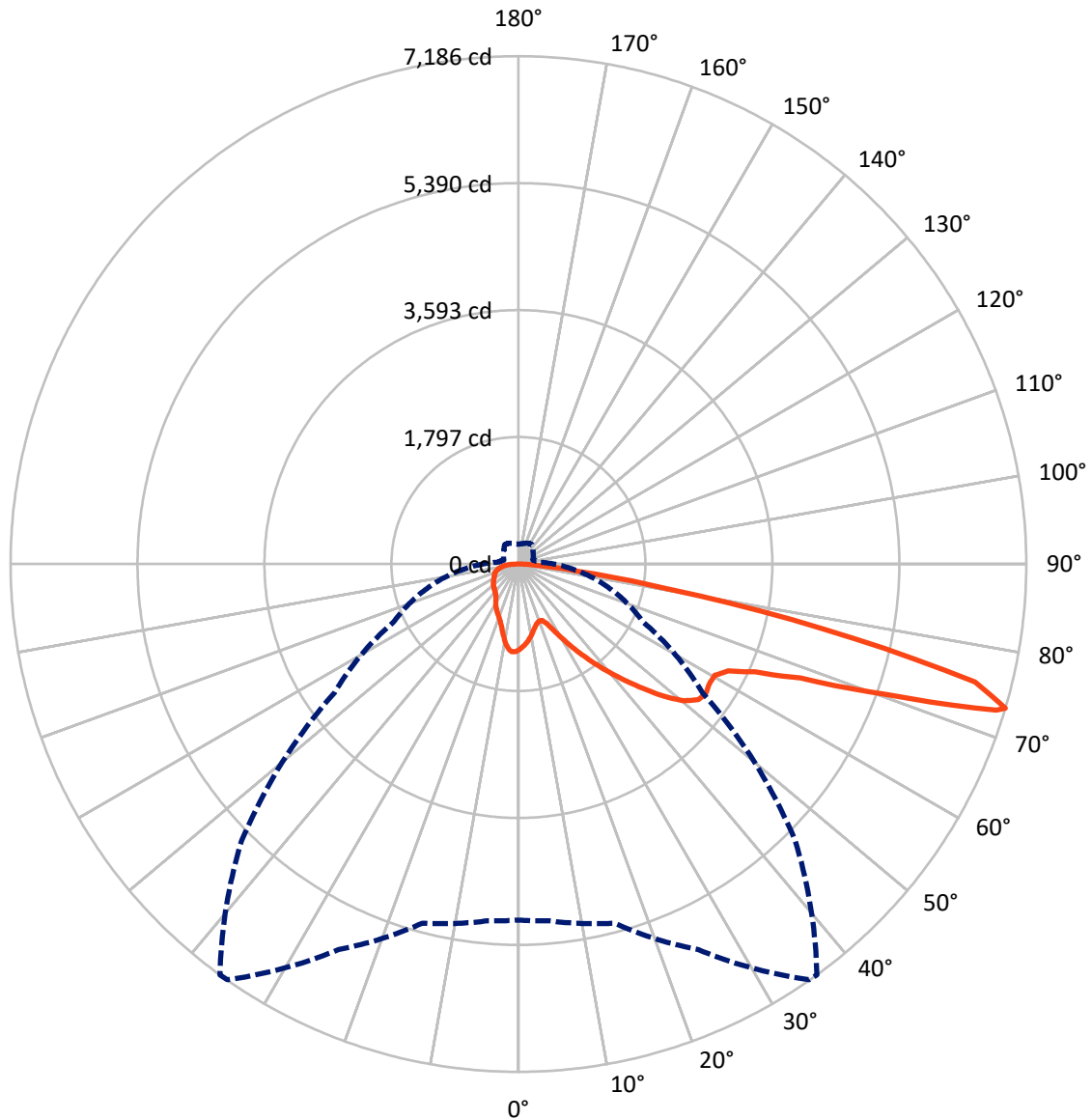


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - Non-Cutoff

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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	1544.2	0.0	1544.2
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	6463.8	0.0	6463.8
	% Fixture	80.7	0.0	80.7
Total	Lumens	8008.0	0.0	8008.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.4
10°-20°	276.7	3.5
20°-30°	443.6	5.5
30°-40°	733.8	9.2
40°-50°	1135.5	14.2
50°-60°	1520.1	19.0
60°-70°	1985.7	24.8
70°-80°	1622.0	20.3
80°-90°	180.5	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°	8008.0	100.0
0°-180°	8008.0	100.0



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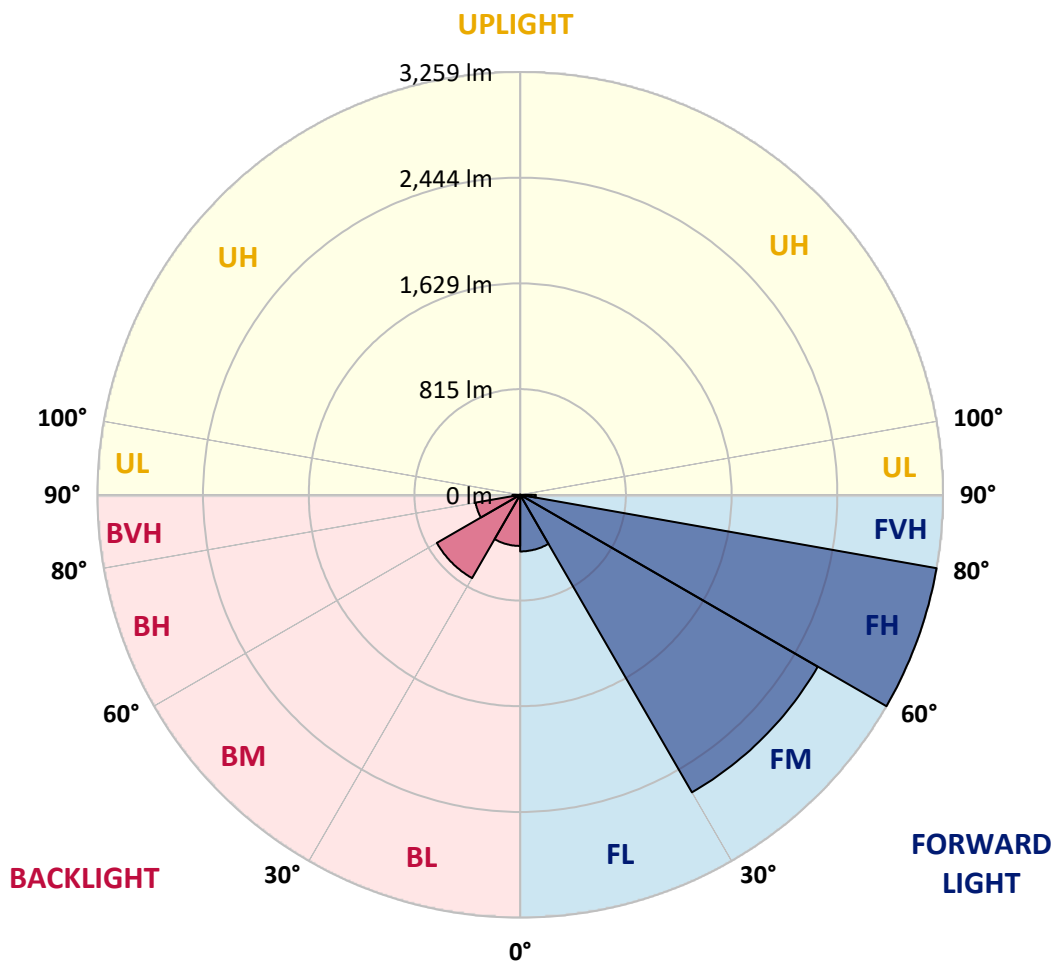
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.3	5.4			
FM	(30°-60°)	2647.7	33.1			
FH	(60°-80°)	3258.7	40.7			G2/5000
FVH	(80°-90°)	121.1	1.5			G2/225
BL	(0°-30°)	394.2	4.9	B1/500		
BM	(30°-60°)	741.6	9.3	B1/1000		
BH	(60°-80°)	349.0	4.4	B1/500		G1/500
BVH	(80°-90°)	59.5	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°	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0
2.5°	1166.7	1169.7	1170.2	1173.8	1173.8	1173.3	1174.8	1180.9	1184.0	1191.1	1197.2
5°	1109.2	1112.7	1114.3	1120.4	1128.0	1128.5	1134.1	1145.8	1157.0	1172.8	1186.0
7.5°	1044.6	1048.6	1052.7	1065.4	1076.6	1077.6	1088.3	1107.1	1121.9	1141.2	1165.2
10°	982.0	983.0	987.1	1003.4	1018.1	1019.6	1034.9	1056.3	1076.1	1103.1	1130.0
12.5°	930.6	933.6	932.6	944.8	957.6	958.6	978.9	1005.9	1034.9	1065.4	1097.5
15°	912.8	912.3	901.6	901.1	906.7	907.7	927.5	959.1	991.7	1029.3	1070.5
17.5°	925.0	920.9	892.9	875.6	872.1	873.1	887.9	922.5	957.1	1000.3	1049.7
20°	992.2	976.4	910.8	869.0	857.3	857.3	866.0	894.0	932.1	982.5	1044.6
22.5°	1151.4	1127.0	987.1	912.8	871.6	867.5	860.9	882.3	924.5	985.0	1065.4
25°	1351.9	1340.2	1127.0	1029.3	944.3	931.1	887.3	895.0	940.3	1012.5	1122.4
27.5°	1537.6	1517.2	1310.7	1198.7	1078.7	1058.3	965.7	934.7	977.9	1063.4	1204.8
30°	1646.0	1632.2	1499.4	1392.6	1249.6	1223.7	1090.9	1013.0	1045.1	1147.3	1321.9
32.5°	1764.0	1755.9	1688.7	1591.5	1434.8	1404.8	1252.7	1140.7	1147.9	1258.8	1462.8
35°	1878.5	1889.2	1851.0	1779.8	1634.3	1606.3	1469.9	1307.6	1274.5	1383.9	1613.4
37.5°	2015.9	2018.4	1994.5	1948.2	1843.9	1821.0	1708.6	1485.7	1412.4	1517.2	1758.9
40°	2290.1	2249.9	2156.3	2119.7	2057.6	2043.3	1915.1	1649.0	1540.6	1654.1	1896.3
42.5°	2586.7	2524.2	2377.6	2317.6	2292.7	2279.4	2087.1	1757.9	1660.7	1791.0	2031.1
45°	2825.9	2775.0	2631.5	2557.2	2560.3	2538.9	2237.2	1855.1	1791.0	1928.4	2181.7
47.5°	3061.4	2976.5	2815.7	2805.0	2840.6	2809.1	2380.7	1952.3	1926.8	2077.9	2332.3
50°	3076.7	2999.4	2934.2	3019.7	3080.8	3041.6	2510.9	2079.5	2067.8	2259.1	2526.7
52.5°	2891.0	2879.8	2979.0	3123.0	3224.3	3189.2	2617.3	2210.2	2211.8	2485.5	2763.3
55°	2823.3	2809.1	2928.1	3105.2	3242.1	3221.2	2696.6	2357.8	2371.5	2760.2	3017.2
57.5°	2937.3	2901.7	2925.1	3071.6	3200.4	3188.1	2779.1	2521.6	2546.5	3076.7	3251.7
60°	3290.9	3218.2	3094.0	3121.5	3201.9	3194.8	2897.1	2704.3	2746.0	3406.4	3400.3
62.5°	3820.6	3738.2	3485.3	3363.2	3345.4	3331.6	3092.0	2928.7	2949.5	3644.5	3313.8
65°	4401.6	4313.1	4012.4	3812.4	3707.6	3678.1	3406.4	3199.3	3068.6	3644.0	2977.0
67.5°	5053.9	4960.3	4660.6	4469.8	4356.3	4306.0	3916.7	3418.1	3029.9	3335.7	2382.2
70°	5722.0	5632.9	5495.5	5562.2	5612.1	5535.2	4720.6	3490.9	2752.1	2615.2	1599.7
72.5°	5367.3	5360.2	5464.5	6096.4	7057.6	7072.8	5523.5	3285.3	2126.3	1554.4	852.7
73°	5038.1	5068.2	5261.5	6017.6	7181.2	7186.3	5539.3	3179.0	1952.3	1339.2	749.0
75°	2610.1	2813.7	3531.1	4879.4	6649.5	6673.4	4883.0	2406.6	1163.6	743.9	504.7
77.5°	699.1	689.9	1137.7	2377.1	4433.2	4401.6	3085.4	1165.2	557.6	466.6	354.1
80°	239.6	242.7	387.2	869.5	2069.3	2143.1	1339.2	508.3	366.8	325.1	250.8
82.5°	122.1	126.2	202.5	369.9	865.5	847.2	431.0	299.2	245.8	197.4	140.4
85°	65.1	67.2	111.4	191.8	317.5	321.1	151.6	159.8	156.2	111.9	69.2
87.5°	32.1	33.1	53.4	84.5	117.5	113.5	52.9	69.2	76.8	63.1	38.2
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°	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0
2.5°	1204.8	1204.8	1211.5	1222.6	1230.8	1238.4	1243.5	1251.6	1256.2	1255.7	1255.2
5°	1196.7	1201.8	1215.0	1228.8	1237.9	1244.0	1244.0	1247.6	1247.6	1246.1	1244.0
7.5°	1177.9	1186.5	1205.9	1218.1	1220.6	1214.0	1200.8	1190.6	1177.9	1171.3	1168.7
10°	1147.9	1159.0	1183.5	1189.1	1175.8	1152.4	1120.4	1092.9	1068.5	1057.3	1053.7
12.5°	1118.3	1133.1	1156.0	1147.3	1115.8	1070.0	1020.7	983.0	955.5	944.8	941.3
15°	1093.9	1111.7	1129.5	1102.6	1047.6	984.0	929.6	894.5	873.6	865.5	863.4
17.5°	1077.6	1098.5	1104.6	1054.2	977.9	906.7	858.3	835.4	826.3	822.7	821.7
20°	1078.7	1102.1	1087.3	1007.4	910.8	839.0	807.0	800.3	800.3	800.3	799.8
22.5°	1106.6	1127.0	1080.2	963.7	846.1	782.0	768.3	773.9	778.0	778.0	777.4
25°	1164.6	1175.8	1085.3	921.4	785.6	732.7	733.2	743.9	747.4	747.4	746.4
27.5°	1253.2	1244.0	1094.4	874.6	726.1	687.9	695.0	704.7	707.2	705.7	705.2
30°	1364.1	1327.5	1102.1	819.7	670.1	646.2	652.3	657.9	655.8	652.3	651.8
32.5°	1488.2	1412.4	1097.5	758.1	620.7	602.9	606.5	609.5	606.5	597.8	597.8
35°	1611.4	1489.3	1072.6	691.0	581.6	561.2	560.7	570.4	569.9	559.7	560.2
37.5°	1719.2	1549.8	1024.2	629.4	548.0	530.7	532.7	538.8	541.9	528.1	526.6
40°	1813.4	1591.5	956.0	577.0	521.0	522.0	516.4	506.8	503.2	497.1	496.1
42.5°	1901.9	1620.5	883.8	533.2	507.3	519.0	500.2	477.3	467.6	473.2	476.7
45°	1988.9	1653.1	814.1	497.1	490.0	509.8	483.9	458.4	447.2	449.8	453.3
47.5°	2095.2	1698.4	730.1	458.4	463.5	493.0	473.7	446.2	429.4	419.3	416.2
50°	2235.2	1764.0	621.2	416.7	435.5	474.7	465.0	428.4	410.1	389.7	384.7
52.5°	2410.2	1826.1	511.3	383.1	412.6	458.9	450.8	413.1	390.8	366.3	362.3
55°	2584.7	1834.7	416.7	354.1	386.7	437.6	433.5	400.9	369.4	349.5	345.5
57.5°	2706.8	1752.8	353.1	329.7	361.8	411.1	417.7	386.2	351.6	336.3	333.8
60°	2708.9	1556.9	314.4	313.4	342.9	388.2	401.4	368.9	340.4	330.2	328.2
62.5°	2493.6	1254.7	289.5	301.2	329.2	369.4	389.2	359.2	337.8	333.8	331.7
65°	2090.2	927.0	269.7	290.0	316.5	353.6	379.1	356.2	336.8	335.3	333.8
67.5°	1543.2	635.5	252.9	275.8	302.2	337.3	369.4	351.6	330.7	336.8	334.8
70°	970.8	424.3	237.1	259.5	283.4	318.5	356.7	343.4	323.1	319.5	312.9
72.5°	548.0	306.8	218.3	238.6	259.0	293.6	339.4	329.7	305.8	291.5	284.9
73°	495.1	290.5	213.7	233.5	253.4	288.5	335.3	325.6	300.7	284.9	278.8
75°	362.3	237.6	192.8	212.7	230.0	265.1	316.0	305.3	278.3	259.5	255.4
77.5°	262.5	183.2	165.9	183.7	198.9	232.5	287.0	274.8	248.3	238.1	234.0
80°	189.3	138.9	137.4	154.7	167.9	202.0	255.9	243.2	217.8	247.8	241.2
82.5°	113.0	89.0	100.7	120.1	133.8	169.4	222.3	207.6	183.2	185.2	157.7
85°	53.9	50.4	62.6	78.9	88.5	116.0	185.2	173.5	146.5	120.1	117.5
87.5°	23.9	22.9	30.0	35.1	47.3	69.7	126.7	112.4	106.3	63.6	49.9
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)