

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: P199269

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199269
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-8030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 8013 lumens
Efficiency: N/A
Efficacy: 94.3 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): 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

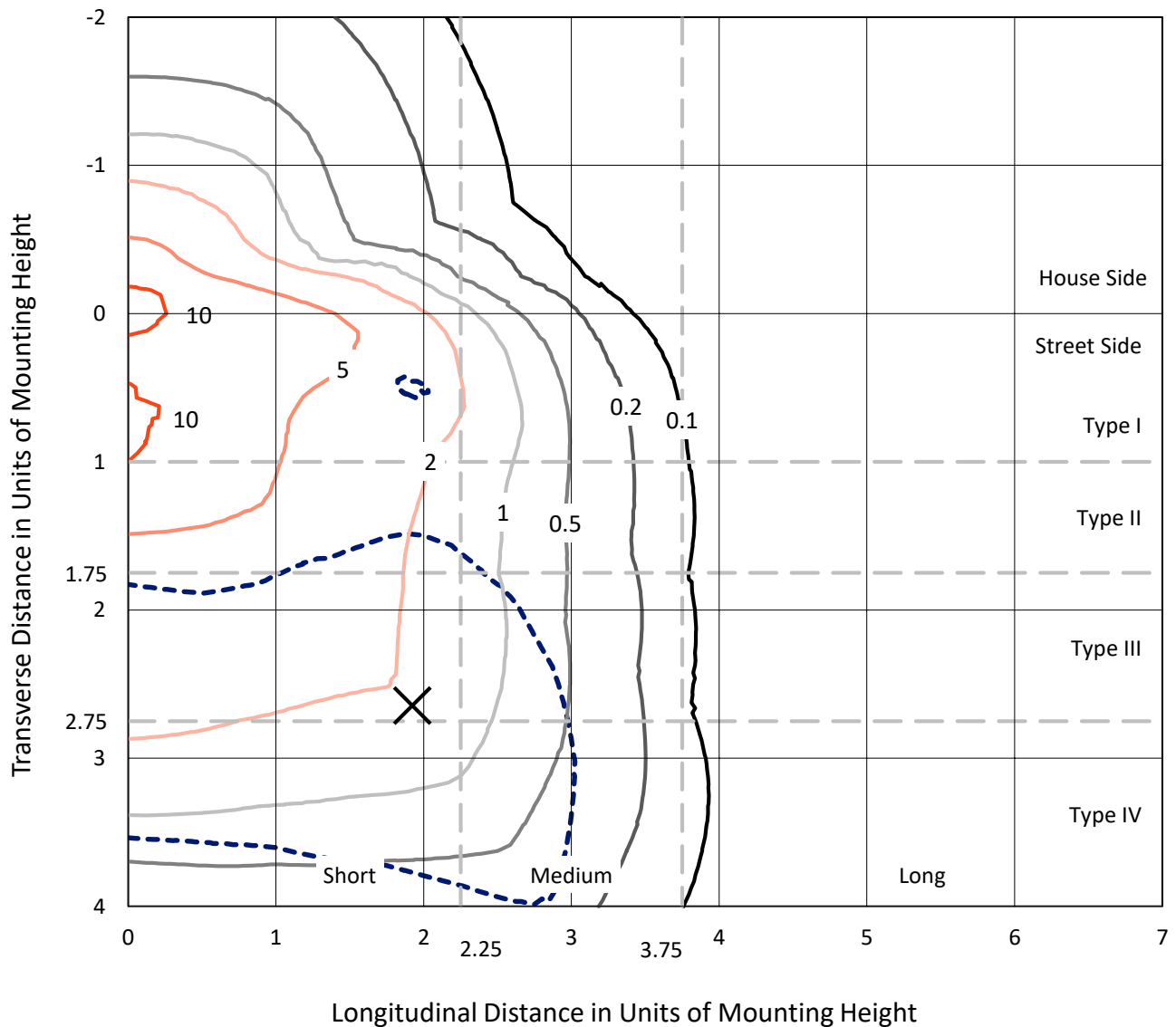


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

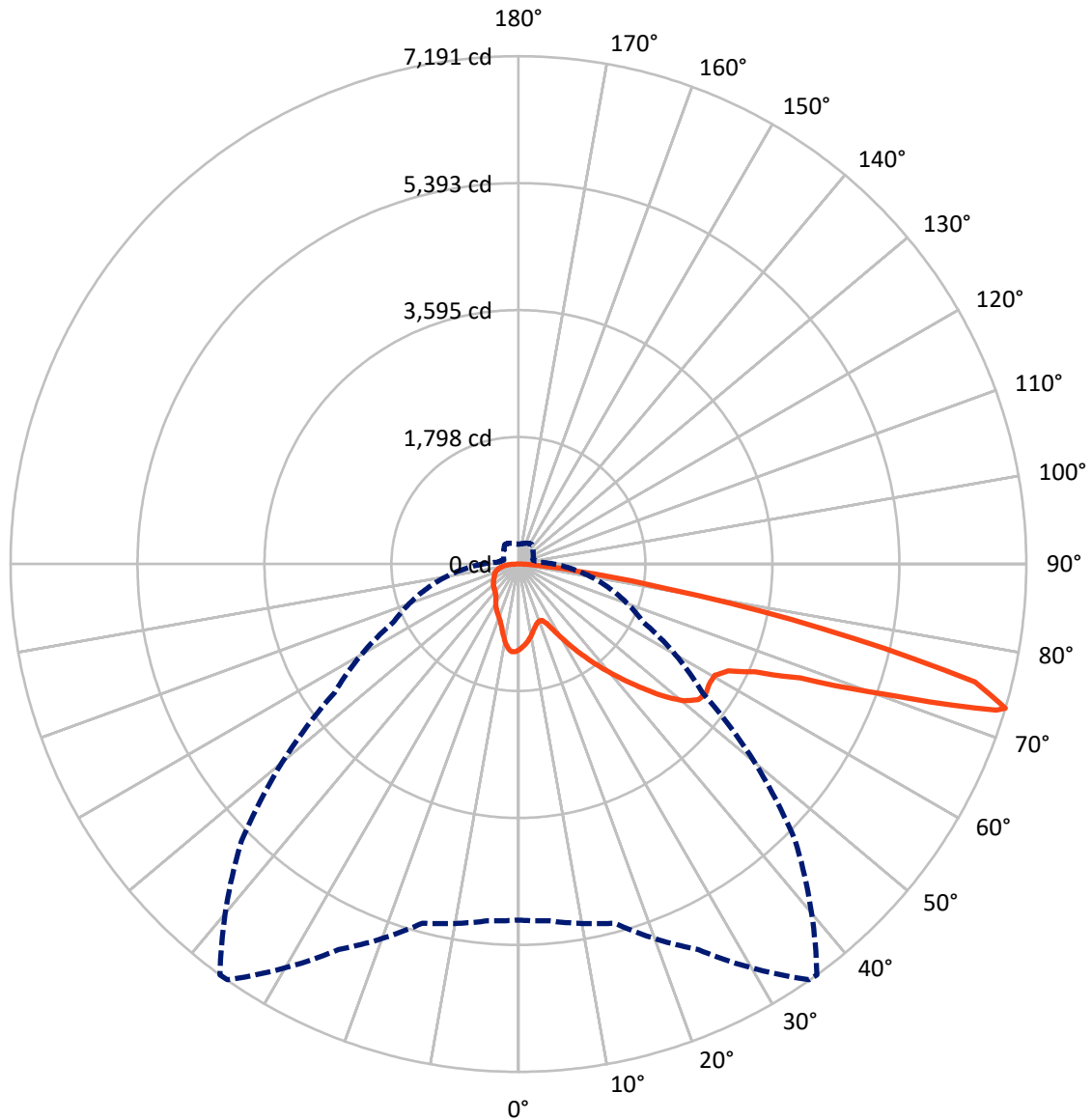


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - Non-Cutoff

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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	1545.1	0.0	1545.1
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	6467.9	0.0	6467.9
	% Fixture	80.7	0.0	80.7
Total	Lumens	8013.0	0.0	8013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.4
10°-20°	276.9	3.5
20°-30°	443.9	5.5
30°-40°	734.3	9.2
40°-50°	1136.2	14.2
50°-60°	1521.0	19.0
60°-70°	1986.9	24.8
70°-80°	1623.0	20.3
80°-90°	180.6	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°	8013.0	100.0
0°-180°	8013.0	100.0



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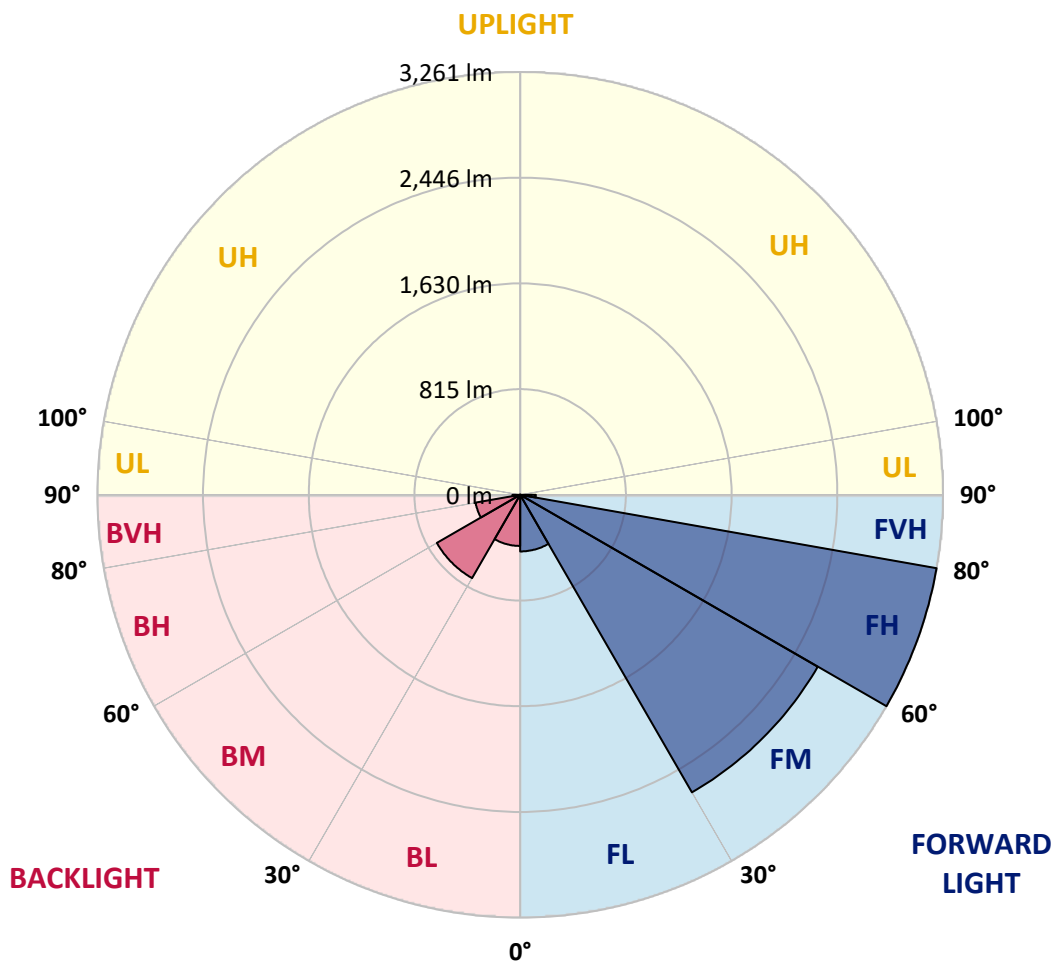
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.6	5.4			
FM (30°-60°)	2649.4	33.1			
FH (60°-80°)	3260.7	40.7			G2/5000
FVH (80°-90°)	121.2	1.5			G2/225
BL (0°-30°)	394.4	4.9	B1/500		
BM (30°-60°)	742.1	9.3	B1/1000		
BH (60°-80°)	349.2	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°	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7
2.5°	1167.4	1170.5	1171.0	1174.5	1174.5	1174.0	1175.6	1181.7	1184.7	1191.8	1198.0
5°	1109.9	1113.4	1115.0	1121.1	1128.7	1129.2	1134.8	1146.5	1157.7	1173.5	1186.8
7.5°	1045.2	1049.3	1053.4	1066.1	1077.3	1078.3	1089.0	1107.8	1122.6	1142.0	1165.9
10°	982.6	983.6	987.7	1004.0	1018.7	1020.3	1035.5	1056.9	1076.8	1103.8	1130.8
12.5°	931.2	934.2	933.2	945.4	958.2	959.2	979.5	1006.5	1035.5	1066.1	1098.2
15°	913.4	912.8	902.2	901.6	907.2	908.3	928.1	959.7	992.3	1029.9	1071.2
17.5°	925.6	921.5	893.5	876.2	872.6	873.6	888.4	923.0	957.7	1000.9	1050.3
20°	992.8	977.0	911.3	869.6	857.9	857.9	866.5	894.5	932.7	983.1	1045.2
22.5°	1152.1	1127.7	987.7	913.4	872.1	868.0	861.4	882.8	925.1	985.7	1066.1
25°	1352.7	1341.0	1127.7	1029.9	944.9	931.7	887.9	895.5	940.8	1013.1	1123.1
27.5°	1538.6	1518.2	1311.5	1199.5	1079.3	1059.0	966.3	935.2	978.5	1064.1	1205.6
30°	1647.0	1633.2	1500.4	1393.5	1250.4	1224.4	1091.5	1013.7	1045.7	1148.1	1322.7
32.5°	1765.1	1757.0	1689.8	1592.5	1435.7	1405.7	1253.4	1141.4	1148.6	1259.6	1463.7
35°	1879.7	1890.4	1852.2	1780.9	1635.3	1607.3	1470.8	1308.4	1275.3	1384.8	1614.4
37.5°	2017.1	2019.7	1995.7	1949.4	1845.0	1822.1	1709.6	1486.6	1413.3	1518.2	1760.0
40°	2291.5	2251.3	2157.6	2121.0	2058.9	2044.6	1916.3	1650.1	1541.6	1655.1	1897.5
42.5°	2588.4	2525.7	2379.1	2319.0	2294.1	2280.8	2088.4	1759.0	1661.8	1792.1	2032.4
45°	2827.6	2776.7	2633.2	2558.8	2561.9	2540.5	2238.6	1856.2	1792.1	1929.6	2183.1
47.5°	3063.4	2978.3	2817.5	2806.8	2842.4	2810.8	2382.2	1953.5	1928.0	2079.2	2333.8
50°	3078.6	3001.2	2936.1	3021.6	3082.7	3043.5	2512.5	2080.8	2069.1	2260.5	2528.3
52.5°	2892.8	2881.6	2980.9	3125.0	3226.3	3191.1	2618.9	2211.6	2213.1	2487.0	2765.0
55°	2825.1	2810.8	2930.0	3107.1	3244.1	3223.2	2698.3	2359.3	2373.0	2762.0	3019.1
57.5°	2939.1	2903.5	2926.9	3073.5	3202.3	3190.1	2780.8	2523.2	2548.1	3078.6	3253.8
60°	3293.0	3220.2	3095.9	3123.4	3203.9	3196.7	2898.9	2706.0	2747.7	3408.5	3402.4
62.5°	3823.0	3740.5	3487.5	3365.3	3347.4	3333.7	3093.9	2930.5	2951.4	3646.8	3315.9
65°	4404.4	4315.8	4014.9	3814.8	3709.9	3680.4	3408.5	3201.3	3070.5	3646.3	2978.8
67.5°	5057.1	4963.4	4663.5	4472.6	4359.1	4308.7	3919.2	3420.3	3031.8	3337.8	2383.7
70°	5725.5	5636.4	5499.0	5565.7	5615.6	5538.7	4723.6	3493.1	2753.8	2616.9	1600.7
72.5°	5370.7	5363.6	5467.9	6100.2	7062.0	7077.2	5527.0	3287.4	2127.6	1555.4	853.3
73°	5041.3	5071.3	5264.8	6021.3	7185.7	7190.8	5542.8	3181.0	1953.5	1340.0	749.4
75°	2611.8	2815.4	3533.3	4882.4	6653.7	6677.6	4886.0	2408.1	1164.4	744.3	505.0
77.5°	699.5	690.4	1138.4	2378.6	4435.9	4404.4	3087.3	1165.9	558.0	466.9	354.3
80°	239.8	242.8	387.4	870.1	2070.6	2144.4	1340.0	508.6	367.1	325.3	251.0
82.5°	122.2	126.3	202.6	370.1	866.0	847.7	431.2	299.4	245.9	197.5	140.5
85°	65.2	67.2	111.5	191.9	317.7	321.3	151.7	159.9	156.3	112.0	69.2
87.5°	32.1	33.1	53.5	84.5	117.6	113.5	52.9	69.2	76.9	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°	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7
2.5°	1205.6	1205.6	1212.2	1223.4	1231.6	1239.2	1244.3	1252.4	1257.0	1256.5	1256.0
5°	1197.4	1202.5	1215.8	1229.5	1238.7	1244.8	1244.8	1248.4	1248.4	1246.8	1244.8
7.5°	1178.6	1187.3	1206.6	1218.8	1221.4	1214.8	1201.5	1191.3	1178.6	1172.0	1169.4
10°	1148.6	1159.8	1184.2	1189.8	1176.6	1153.2	1121.1	1093.6	1069.1	1057.9	1054.4
12.5°	1119.0	1133.8	1156.7	1148.1	1116.5	1070.7	1021.3	983.6	956.1	945.4	941.9
15°	1094.6	1112.4	1130.2	1103.3	1048.3	984.6	930.2	895.0	874.2	866.0	864.0
17.5°	1078.3	1099.2	1105.3	1054.9	978.5	907.2	858.9	836.0	826.8	823.2	822.2
20°	1079.3	1102.7	1088.0	1008.1	911.3	839.5	807.5	800.8	800.8	800.8	800.3
22.5°	1107.3	1127.7	1080.9	964.3	846.7	782.5	768.8	774.4	778.4	778.4	777.9
25°	1165.4	1176.6	1085.9	922.0	786.1	733.1	733.6	744.3	747.9	747.9	746.9
27.5°	1254.0	1244.8	1095.1	875.2	726.5	688.3	695.5	705.1	707.7	706.1	705.6
30°	1364.9	1328.3	1102.7	820.2	670.5	646.6	652.7	658.3	656.3	652.7	652.2
32.5°	1489.2	1413.3	1098.2	758.6	621.1	603.3	606.9	609.9	606.9	598.2	598.2
35°	1612.4	1490.2	1073.2	691.4	581.9	561.6	561.0	570.7	570.2	560.0	560.5
37.5°	1720.3	1550.8	1024.9	629.8	548.3	531.0	533.0	539.2	542.2	528.5	526.9
40°	1814.5	1592.5	956.6	577.3	521.3	522.4	516.8	507.1	503.5	497.4	496.4
42.5°	1903.1	1621.5	884.3	533.6	507.6	519.3	500.5	477.6	467.9	473.5	477.0
45°	1990.1	1654.1	814.6	497.4	490.3	510.1	484.2	458.7	447.5	450.1	453.6
47.5°	2096.5	1699.4	730.6	458.7	463.8	493.3	474.0	446.5	429.7	419.5	416.5
50°	2236.6	1765.1	621.6	417.0	435.8	475.0	465.3	428.7	410.3	390.0	384.9
52.5°	2411.7	1827.2	511.7	383.4	412.9	459.2	451.1	413.4	391.0	366.6	362.5
55°	2586.3	1835.9	417.0	354.3	386.9	437.8	433.8	401.2	369.6	349.8	345.7
57.5°	2708.5	1753.9	353.3	329.9	362.0	411.4	418.0	386.4	351.8	336.5	334.0
60°	2710.5	1557.9	314.6	313.6	343.1	388.5	401.7	369.1	340.6	330.4	328.4
62.5°	2495.2	1255.5	289.7	301.4	329.4	369.6	389.5	359.4	338.1	334.0	331.9
65°	2091.5	927.6	269.8	290.2	316.7	353.8	379.3	356.4	337.0	335.5	334.0
67.5°	1544.2	635.9	253.0	275.9	302.4	337.5	369.6	351.8	330.9	337.0	335.0
70°	971.4	424.6	237.2	259.6	283.6	318.7	356.9	343.7	323.3	319.7	313.1
72.5°	548.3	307.0	218.4	238.8	259.1	293.8	339.6	329.9	306.0	291.7	285.1
73°	495.4	290.7	213.8	233.7	253.5	288.7	335.5	325.8	300.9	285.1	279.0
75°	362.5	237.8	193.0	212.8	230.1	265.3	316.2	305.5	278.5	259.6	255.6
77.5°	262.7	183.3	166.0	183.8	199.1	232.7	287.1	274.9	248.4	238.3	234.2
80°	189.4	139.0	137.5	154.8	168.0	202.1	256.1	243.4	217.9	247.9	241.3
82.5°	113.0	89.1	100.8	120.2	133.9	169.5	222.5	207.7	183.3	185.3	157.8
85°	54.0	50.4	62.6	78.9	88.6	116.1	185.3	173.6	146.6	120.2	117.6
87.5°	23.9	22.9	30.0	35.1	47.3	69.7	126.8	112.5	106.4	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)