

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: P198637

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
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-T4W-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8523 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

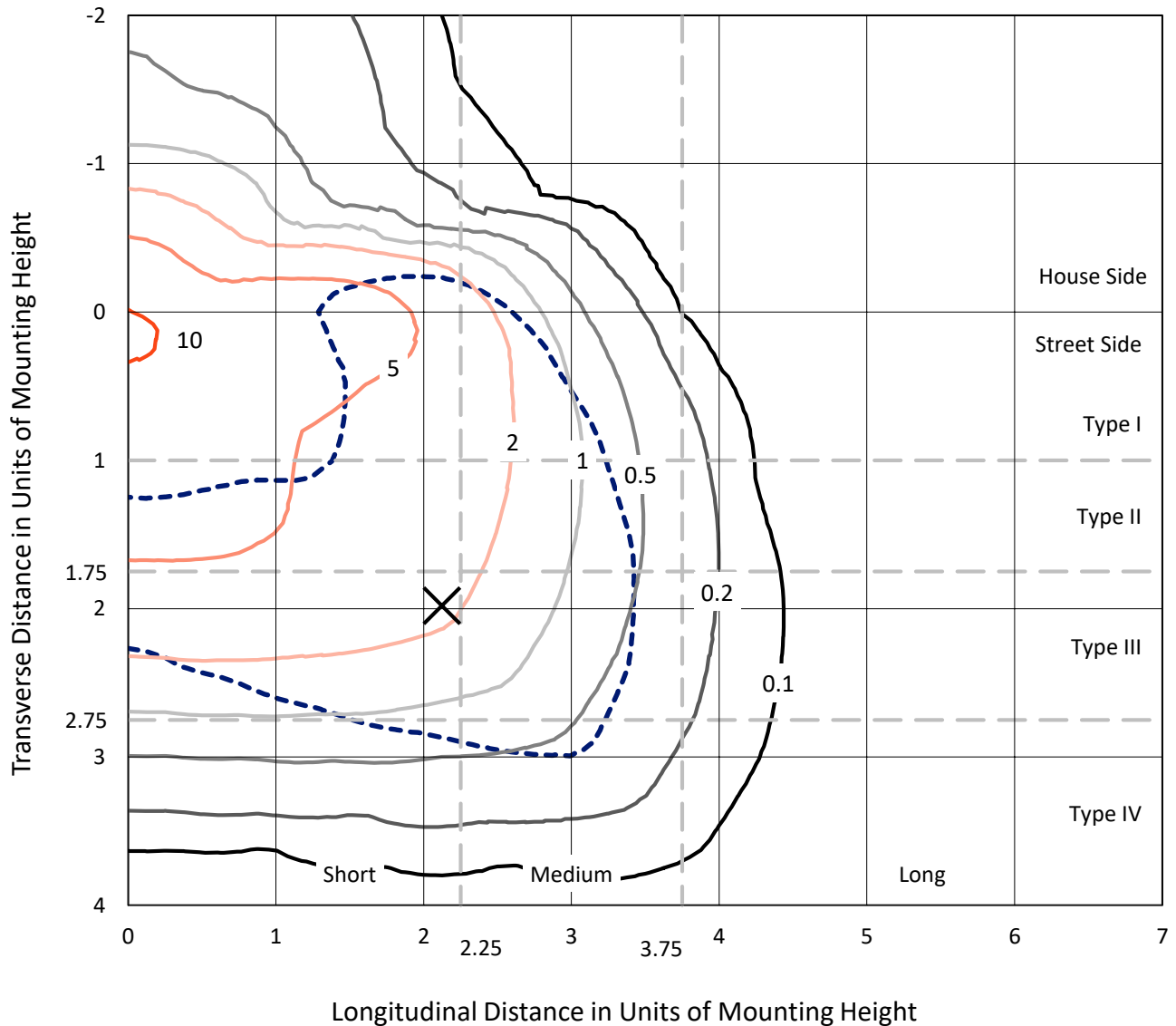


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

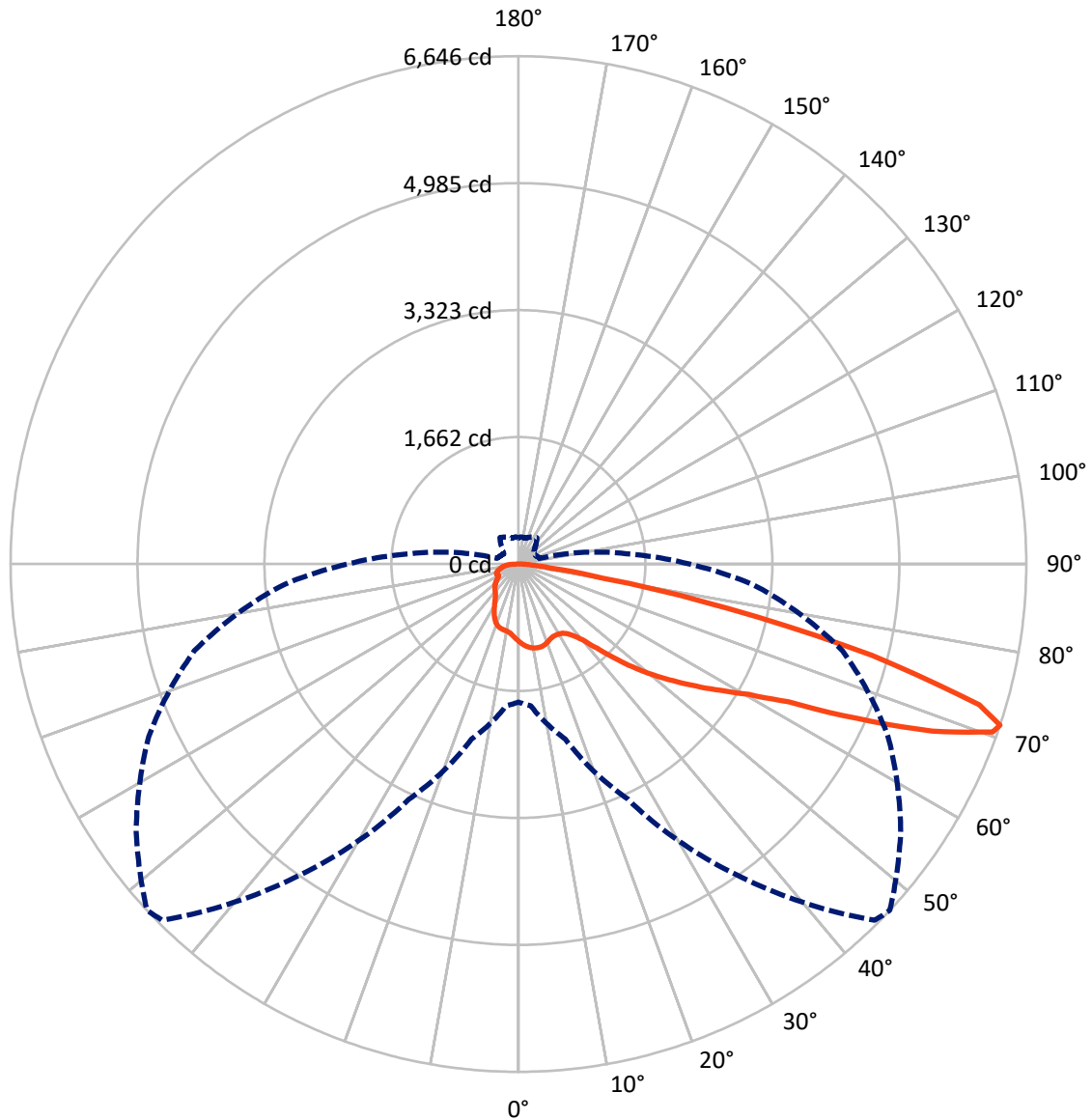


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1826.6	0.0	1826.6
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	6696.4	0.0	6696.4
	% Fixture	78.6	0.0	78.6
Total	Lumens	8523.0	0.0	8523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.1
10°-20°	283.1	3.3
20°-30°	420.7	4.9
30°-40°	604.0	7.1
40°-50°	1071.0	12.6
50°-60°	1832.6	21.5
60°-70°	2601.7	30.5
70°-80°	1424.9	16.7
80°-90°	188.1	2.2
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°	8523.0	100.0
0°-180°	8523.0	100.0

Coefficient of Utilization



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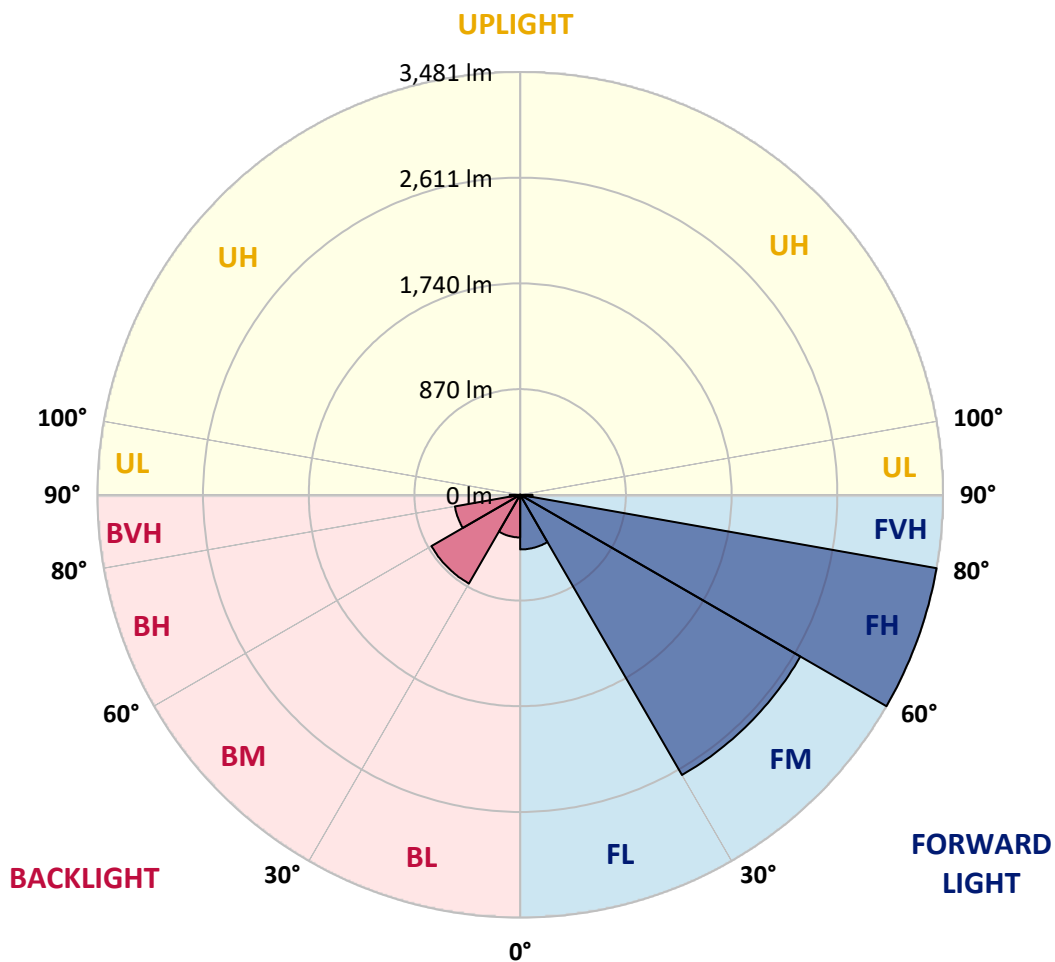
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.8	5.3			
FM	(30°-60°)	2663.7	31.3			
FH	(60°-80°)	3480.9	40.8			G2/5000
FVH	(80°-90°)	102.0	1.2			G2/225
BL	(0°-30°)	350.8	4.1	B1/500		
BM	(30°-60°)	844.0	9.9	B1/1000		
BH	(60°-80°)	545.8	6.4	B2/1000		G2/1000
BVH	(80°-90°)	86.1	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5
2.5°	1075.4	1073.2	1074.3	1070.4	1061.0	1051.1	1051.1	1040.6	1029.5	1018.5	1006.3
5°	1142.2	1138.9	1136.1	1124.0	1105.8	1085.3	1082.0	1061.0	1038.4	1015.7	993.6
7.5°	1198.0	1194.7	1186.4	1164.3	1137.8	1107.4	1103.6	1075.9	1046.1	1014.6	983.7
10°	1237.8	1235.6	1219.5	1191.4	1160.4	1124.5	1117.9	1089.7	1054.4	1015.2	976.0
12.5°	1259.9	1256.6	1237.2	1204.1	1167.6	1131.2	1124.5	1097.5	1057.2	1014.1	968.2
15°	1251.0	1249.4	1231.1	1197.5	1161.0	1129.5	1124.0	1096.4	1055.5	1010.2	961.1
17.5°	1213.5	1217.3	1203.0	1169.8	1140.0	1117.9	1111.8	1085.9	1047.2	1000.8	950.0
20°	1161.6	1166.0	1158.8	1125.1	1108.0	1093.6	1090.3	1069.3	1033.4	987.0	936.8
22.5°	1106.3	1110.2	1110.7	1079.3	1073.7	1068.2	1065.4	1050.5	1021.3	978.7	927.9
25°	1068.2	1072.6	1073.7	1046.1	1049.4	1051.1	1050.5	1040.0	1019.1	978.7	929.0
27.5°	1058.3	1060.5	1059.4	1034.0	1040.0	1049.4	1050.0	1047.8	1027.9	989.8	944.5
30°	1092.5	1093.6	1079.8	1041.7	1047.8	1059.9	1060.5	1059.4	1046.7	1018.5	979.3
32.5°	1240.5	1239.4	1191.9	1093.6	1072.6	1077.0	1078.7	1088.6	1089.7	1066.0	1029.5
35°	1465.9	1465.3	1410.1	1242.2	1143.3	1120.1	1122.3	1137.8	1151.6	1135.6	1114.6
37.5°	1713.9	1715.5	1681.8	1454.3	1295.8	1199.1	1196.9	1208.5	1233.4	1238.9	1241.6
40°	1988.9	1997.2	1995.6	1697.9	1509.5	1333.9	1311.8	1298.5	1346.6	1377.0	1416.2
42.5°	2303.2	2301.0	2302.1	1965.2	1753.7	1546.0	1505.1	1443.2	1499.0	1551.5	1637.7
45°	2573.3	2582.1	2588.8	2249.6	2027.1	1788.4	1747.0	1634.3	1684.6	1763.0	1894.5
47.5°	2845.1	2829.6	2841.7	2566.1	2331.4	2065.2	2011.6	1859.7	1906.6	2017.1	2217.1
50°	3161.5	3154.4	3099.1	2979.3	2699.2	2345.7	2275.6	2095.0	2163.5	2311.0	2615.3
52.5°	3445.4	3406.8	3363.7	3304.0	3061.0	2629.6	2540.7	2339.7	2465.6	2648.4	3109.6
55°	3549.3	3523.3	3575.2	3652.6	3443.8	2919.1	2819.6	2625.2	2806.4	3034.5	3691.2
57.5°	3659.7	3668.6	3785.7	3942.0	3806.1	3227.8	3120.1	2963.3	3180.3	3466.4	4341.3
60°	3715.0	3750.3	3984.0	4277.3	4150.8	3566.4	3463.1	3351.5	3595.1	3943.6	4989.8
62.5°	3724.4	3771.9	4102.7	4394.9	4625.2	4085.0	3965.7	3844.8	4113.2	4471.1	5459.2
65°	3552.0	3624.9	4092.2	4539.6	5057.7	4951.6	4876.0	4665.0	4806.9	4935.6	5539.3
67.5°	3045.6	3125.1	3687.4	4480.0	5404.6	5850.8	5836.5	5525.0	5342.7	5115.1	4945.6
70°	2235.3	2299.4	2839.5	3829.9	5253.2	6556.7	6582.1	6082.3	5492.4	4734.0	3677.4
71°	1807.8	1863.0	2372.3	3400.1	4958.3	6593.2	6646.2	6107.1	5336.6	4389.9	3078.7
72.5°	1125.1	1156.0	1575.2	2566.1	4269.5	6217.6	6307.1	5789.0	4846.2	3710.6	2176.2
75°	424.7	436.9	584.4	1131.7	2548.5	4671.1	4779.3	4375.0	3404.6	2118.2	910.8
77.5°	228.1	234.2	290.0	470.6	1021.3	2677.7	2816.9	2495.4	1633.2	741.2	372.3
80°	153.0	156.9	200.5	278.9	469.5	1019.6	1135.6	1001.9	611.4	423.1	265.1
82.5°	98.9	101.1	136.4	183.4	303.2	358.5	409.3	427.5	381.7	303.2	160.2
85°	65.2	66.8	90.0	117.1	187.8	176.7	181.2	237.0	260.1	199.9	81.7
87.5°	37.6	38.7	54.1	60.2	84.5	66.3	71.8	112.7	154.7	130.4	46.9
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°	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5
2.5°	1000.8	996.4	986.5	980.4	977.6	976.5	975.4	977.6	977.6	976.5	974.3
5°	982.6	974.3	957.7	946.1	940.1	938.4	940.6	943.4	945.0	945.0	943.4
7.5°	969.3	957.2	935.1	919.1	909.7	906.9	913.0	922.9	929.6	932.9	933.4
10°	958.3	941.7	917.4	900.9	893.1	892.0	899.7	912.5	926.3	932.3	933.4
12.5°	948.4	929.6	903.1	887.6	882.1	884.8	895.3	906.9	922.9	931.8	932.3
15°	939.0	919.6	891.5	875.4	874.3	878.8	888.7	898.1	910.2	921.3	921.3
17.5°	927.9	906.9	877.7	862.7	862.7	866.6	873.2	878.2	885.9	896.4	895.9
20°	914.7	893.1	863.3	847.8	844.5	842.3	842.3	843.4	850.0	859.4	861.1
22.5°	904.7	882.6	851.1	832.4	817.4	803.1	797.0	794.8	800.9	809.7	811.9
25°	904.7	882.6	847.3	815.8	779.3	751.7	740.1	736.8	742.9	751.2	754.5
27.5°	919.6	897.5	856.1	800.9	734.0	689.9	676.1	673.3	678.8	685.4	688.8
30°	954.4	932.9	881.5	783.8	683.8	625.8	610.3	607.6	610.3	613.1	617.0
32.5°	1012.4	994.2	922.9	768.3	633.0	567.8	549.0	544.6	545.7	546.3	549.6
35°	1106.9	1098.6	978.2	750.1	584.9	520.3	501.0	492.1	491.6	494.3	498.2
37.5°	1251.6	1256.6	1049.4	723.6	545.2	486.6	467.3	458.4	454.0	459.5	464.0
40°	1455.9	1467.5	1131.7	687.7	512.6	466.7	446.3	438.0	431.9	430.3	432.5
42.5°	1721.6	1718.3	1215.7	641.8	477.2	453.5	431.9	423.1	413.1	400.4	397.7
45°	2036.4	1988.9	1285.8	585.5	436.9	440.8	418.7	406.5	391.1	372.3	370.1
47.5°	2408.2	2277.3	1328.9	525.3	399.3	424.2	403.8	385.0	362.3	350.2	348.5
50°	2856.1	2614.7	1359.3	464.0	365.6	403.2	382.8	357.9	335.8	332.5	332.0
52.5°	3386.3	3013.0	1396.8	408.7	339.1	376.1	361.8	336.4	318.7	320.4	320.4
55°	3950.3	3425.0	1397.9	365.1	315.9	344.7	346.3	325.9	312.1	317.6	319.2
57.5°	4464.5	3785.1	1288.0	334.2	293.8	319.8	341.3	329.7	319.2	338.6	340.2
60°	4913.0	4062.4	1051.6	308.8	275.6	310.4	352.4	353.5	351.3	403.8	407.6
62.5°	5077.0	4065.2	746.8	287.2	265.7	315.9	375.6	377.2	377.2	425.8	433.0
65°	4847.3	3726.6	497.1	274.5	259.0	328.1	394.4	387.2	370.1	403.8	396.0
67.5°	4037.5	2900.8	363.4	266.2	249.7	328.6	410.9	392.7	363.4	392.2	378.9
70°	2774.9	1845.9	304.3	258.5	238.6	314.3	419.8	391.1	353.5	365.6	348.0
71°	2233.6	1473.1	288.9	255.7	234.2	306.0	420.9	388.8	348.5	356.3	340.2
72.5°	1471.4	907.5	270.1	249.7	227.6	291.6	418.1	383.9	341.9	342.4	332.0
75°	580.5	376.1	243.0	235.8	208.8	268.4	406.0	373.4	329.2	318.1	313.7
77.5°	293.3	245.8	213.8	216.5	186.7	244.7	388.8	356.3	311.5	296.6	293.3
80°	214.3	186.7	182.8	187.8	161.8	221.5	367.3	333.1	288.9	304.3	297.7
82.5°	130.4	113.8	143.1	155.2	135.3	197.7	341.9	306.0	260.1	239.7	232.0
85°	61.9	66.8	103.3	114.3	100.0	158.0	312.6	276.2	227.0	196.1	199.4
87.5°	30.4	37.0	59.1	68.5	65.7	116.0	235.8	214.3	179.0	147.5	144.2
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)