

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: P198795

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198795
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-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8031.2 lumens
Efficiency: N/A
Efficacy: 121.7 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

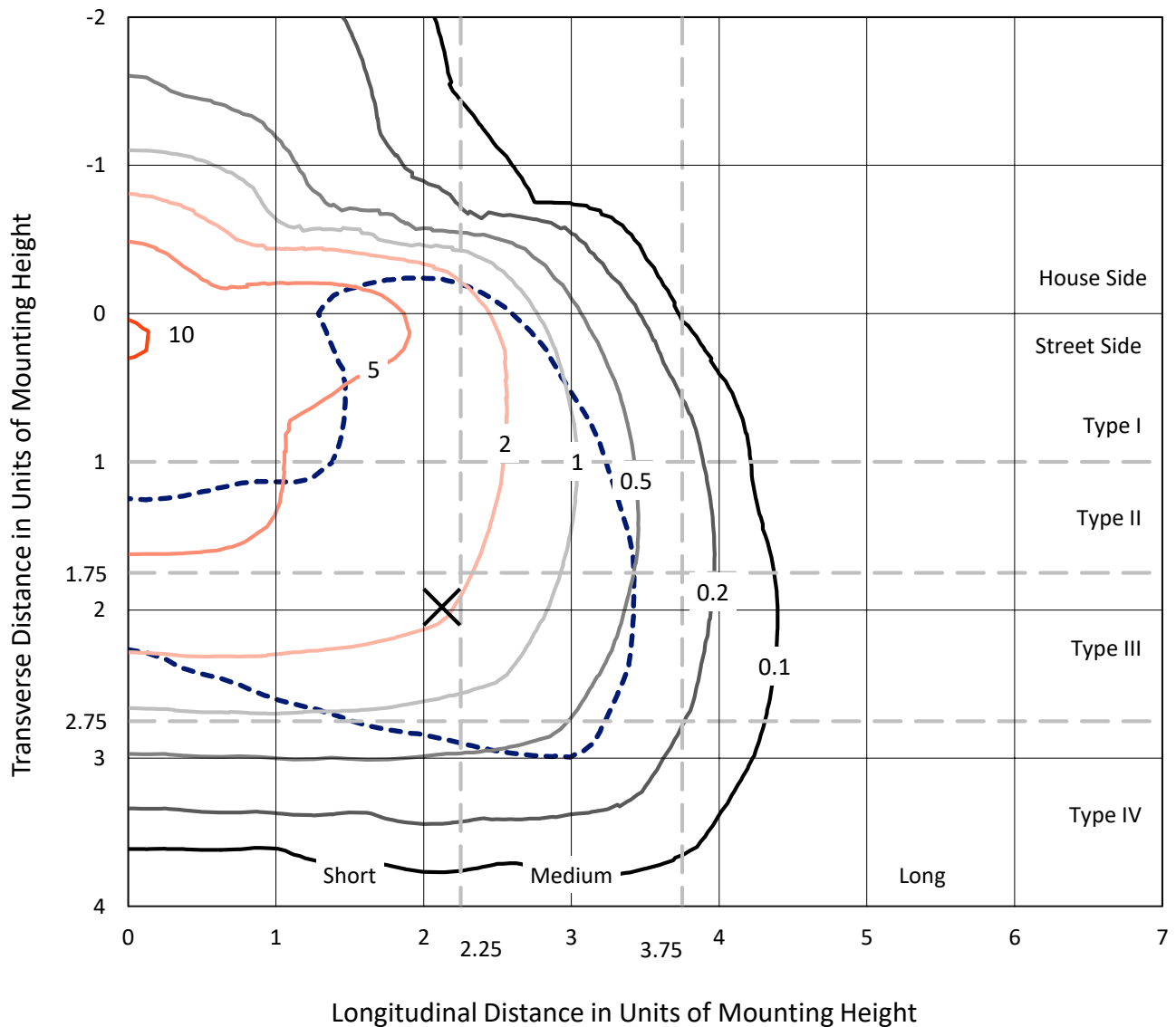
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

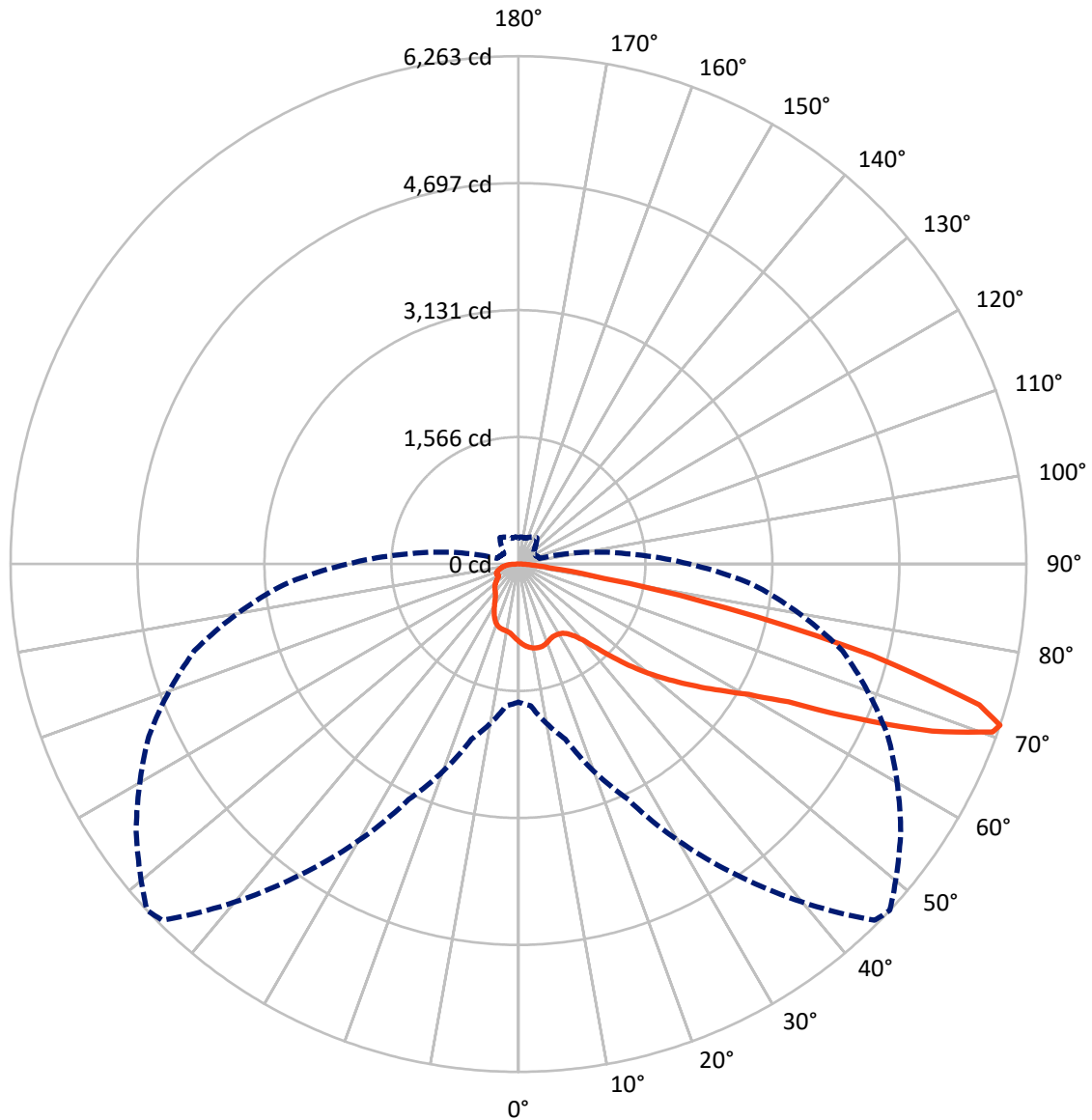
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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	1721.2	0.0	1721.2
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	6310.0	0.0	6310.0
	% Fixture	78.6	0.0	78.6
Total	Lumens	8031.2	0.0	8031.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.1
10°-20°	266.8	3.3
20°-30°	396.4	4.9
30°-40°	569.2	7.1
40°-50°	1009.2	12.6
50°-60°	1726.9	21.5
60°-70°	2451.6	30.5
70°-80°	1342.7	16.7
80°-90°	177.2	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°	8031.2	100.0
0°-180°	8031.2	100.0

Coefficient of Utilization



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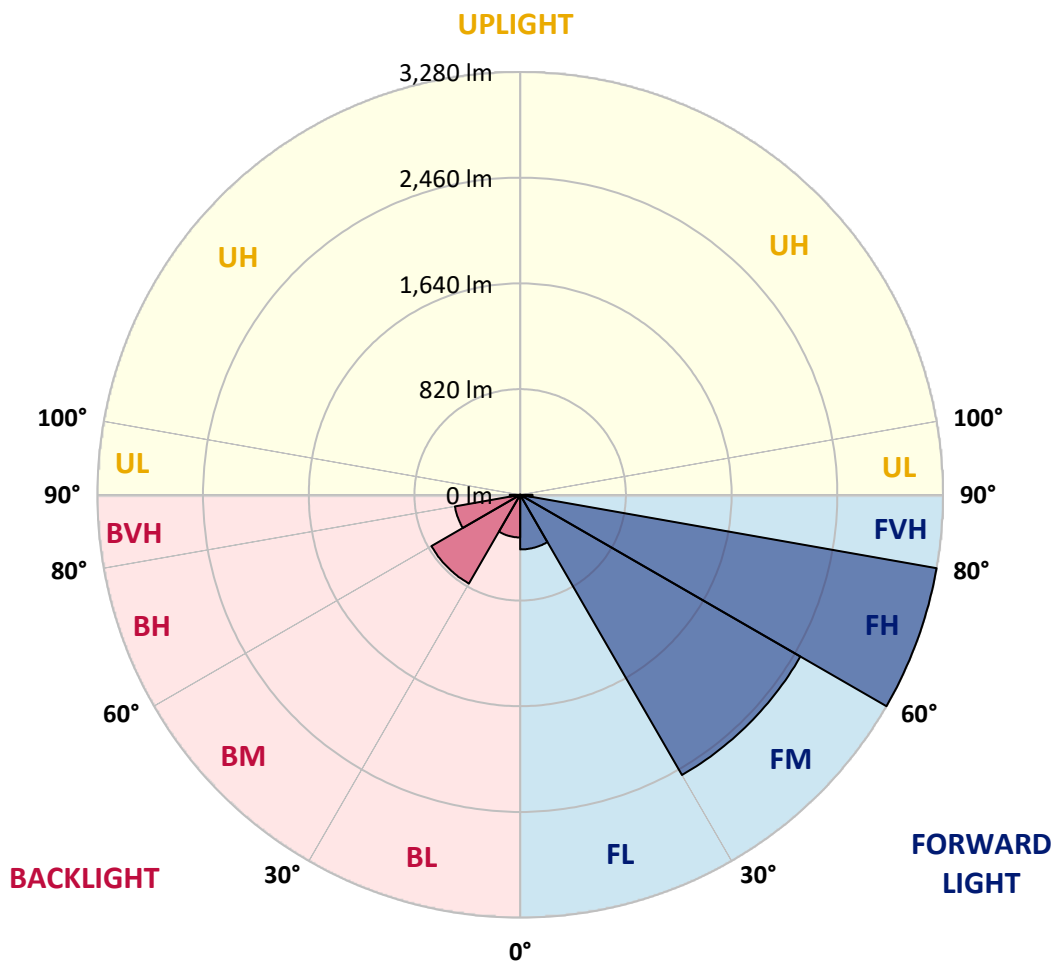
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.8	5.3			
FM	(30°-60°)	2510.0	31.3			
FH	(60°-80°)	3280.0	40.8			G2/5000
FVH	(80°-90°)	96.1	1.2			G1/100
BL	(0°-30°)	330.5	4.1	B1/500		
BM	(30°-60°)	795.3	9.9	B1/1000		
BH	(60°-80°)	514.3	6.4	B2/1000		G2/1000
BVH	(80°-90°)	81.1	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°	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0
2.5°	1013.3	1011.3	1012.3	1008.6	999.8	990.4	990.4	980.5	970.2	959.7	948.3
5°	1076.3	1073.2	1070.6	1059.2	1042.0	1022.7	1019.6	999.8	978.5	957.2	936.3
7.5°	1128.8	1125.8	1118.0	1097.1	1072.2	1043.5	1039.8	1013.8	985.7	956.0	926.9
10°	1166.4	1164.2	1149.2	1122.6	1093.5	1059.7	1053.4	1026.8	993.6	956.6	919.6
12.5°	1187.1	1184.1	1165.9	1134.6	1100.3	1065.9	1059.7	1034.2	996.1	955.5	912.4
15°	1178.8	1177.3	1160.1	1128.3	1094.0	1064.4	1059.2	1033.1	994.6	952.0	905.6
17.5°	1143.5	1147.1	1133.5	1102.3	1074.2	1053.4	1047.7	1023.3	986.8	943.1	895.2
20°	1094.6	1098.6	1091.9	1060.2	1044.0	1030.5	1027.3	1007.6	973.7	930.1	882.7
22.5°	1042.5	1046.2	1046.7	1017.0	1011.8	1006.6	1003.9	989.9	962.3	922.3	874.4
25°	1006.6	1010.8	1011.8	985.7	988.9	990.4	989.9	980.0	960.2	922.3	875.4
27.5°	997.2	999.3	998.2	974.3	980.0	988.9	989.4	987.4	968.5	932.6	890.0
30°	1029.5	1030.5	1017.5	981.6	987.4	998.8	999.3	998.2	986.2	959.7	922.8
32.5°	1168.9	1167.9	1123.2	1030.5	1010.8	1014.9	1016.5	1025.8	1026.8	1004.4	970.2
35°	1381.3	1380.8	1328.7	1170.6	1077.4	1055.5	1057.5	1072.2	1085.1	1070.1	1050.3
37.5°	1615.0	1616.6	1584.8	1370.3	1221.0	1130.0	1127.8	1138.7	1162.2	1167.4	1169.9
40°	1874.1	1882.0	1880.4	1599.9	1422.4	1256.9	1236.1	1223.6	1268.9	1297.5	1334.4
42.5°	2170.3	2168.2	2169.3	1851.7	1652.5	1456.8	1418.2	1359.9	1412.5	1462.0	1543.1
45°	2424.8	2433.2	2439.4	2119.9	1910.1	1685.2	1646.2	1540.1	1587.4	1661.3	1785.2
47.5°	2680.8	2666.3	2677.8	2418.1	2196.9	1946.0	1895.5	1752.4	1796.6	1900.7	2089.2
50°	2979.1	2972.4	2920.3	2807.4	2543.5	2210.4	2144.3	1974.1	2038.6	2177.6	2464.4
52.5°	3246.6	3210.2	3169.6	3113.4	2884.4	2477.9	2394.1	2204.7	2323.3	2495.6	2930.1
55°	3344.4	3320.0	3368.9	3441.8	3245.1	2750.6	2656.9	2473.7	2644.4	2859.4	3478.2
57.5°	3448.6	3456.9	3567.2	3714.5	3586.5	3041.5	2940.1	2792.2	2996.8	3266.4	4090.8
60°	3500.6	3533.9	3754.0	4030.4	3911.3	3360.6	3263.3	3158.2	3387.7	3716.1	4701.8
62.5°	3509.4	3554.2	3865.9	4141.3	4358.3	3849.4	3736.9	3622.9	3875.9	4213.1	5144.2
65°	3347.1	3415.7	3856.1	4277.7	4765.8	4665.9	4594.6	4395.8	4529.5	4650.8	5219.7
67.5°	2869.8	2944.8	3474.6	4221.4	5092.7	5513.2	5499.7	5206.1	5034.5	4819.9	4660.2
70°	2106.3	2166.7	2675.6	3608.9	4950.1	6178.4	6202.4	5731.3	5175.4	4460.9	3465.2
71°	1703.4	1755.5	2235.4	3204.0	4672.1	6212.7	6262.7	5754.7	5028.7	4136.6	2901.1
72.5°	1060.2	1089.3	1484.3	2418.1	4023.2	5858.8	5943.1	5454.9	4566.6	3496.4	2050.6
75°	400.3	411.6	550.7	1066.4	2401.4	4401.6	4503.5	4122.6	3208.1	1996.0	858.3
77.5°	214.9	220.7	273.2	443.4	962.3	2523.2	2654.4	2351.5	1539.0	698.5	350.8
80°	144.1	147.8	188.9	262.8	442.4	960.8	1070.1	944.1	576.1	398.6	249.8
82.5°	93.2	95.2	128.6	172.8	285.7	337.8	385.7	402.8	359.7	285.7	150.9
85°	61.4	63.0	84.8	110.4	177.0	166.5	170.7	223.3	245.1	188.4	77.0
87.5°	35.4	36.4	51.0	56.8	79.6	62.5	67.6	106.2	145.8	122.9	44.2
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°	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0	955.0
2.5°	943.1	938.9	929.6	923.8	921.2	920.1	919.1	921.2	921.2	920.1	918.1
5°	925.9	918.1	902.4	891.5	885.8	884.2	886.4	888.9	890.5	890.5	888.9
7.5°	913.4	901.9	881.2	866.0	857.2	854.6	860.3	869.7	876.0	879.0	879.5
10°	903.0	887.4	864.5	848.8	841.6	840.6	847.8	859.8	872.8	878.5	879.5
12.5°	893.6	876.0	851.0	836.4	831.1	833.8	843.6	854.6	869.7	878.0	878.5
15°	884.8	866.5	840.0	824.9	823.9	828.1	837.4	846.3	857.7	868.1	868.1
17.5°	874.4	854.6	827.1	812.9	812.9	816.6	822.9	827.6	834.8	844.8	844.1
20°	861.8	841.6	813.5	798.9	795.8	793.7	793.7	794.7	801.0	809.9	811.4
22.5°	852.5	831.7	802.0	784.3	770.3	756.8	751.1	748.9	754.6	763.0	765.1
25°	852.5	831.7	798.4	768.7	734.4	708.4	697.4	694.3	700.0	707.8	711.0
27.5°	866.5	845.8	806.7	754.6	691.7	650.1	637.0	634.4	639.7	645.9	649.1
30°	899.4	879.0	830.6	738.6	644.4	589.7	575.1	572.5	575.1	577.7	581.3
32.5°	954.0	936.8	869.7	723.9	596.5	535.0	517.3	513.2	514.2	514.7	517.8
35°	1043.0	1035.2	921.8	706.8	551.2	490.3	472.1	463.7	463.2	465.9	469.4
37.5°	1179.4	1184.1	988.9	681.8	513.7	458.5	440.3	432.0	427.8	433.0	437.2
40°	1371.9	1382.8	1066.4	647.9	482.9	439.8	420.5	412.8	407.0	405.4	407.5
42.5°	1622.3	1619.1	1145.5	604.8	449.7	427.3	407.0	398.6	389.3	377.4	374.7
45°	1919.0	1874.1	1211.6	551.7	411.6	415.3	394.6	383.1	368.5	350.8	348.7
47.5°	2269.2	2145.8	1252.2	495.0	376.2	399.7	380.4	362.7	341.5	330.0	328.4
50°	2691.3	2463.9	1280.8	437.2	344.5	379.9	360.7	337.3	316.4	313.3	312.8
52.5°	3190.9	2839.1	1316.2	385.1	319.6	354.5	340.9	316.9	300.3	301.9	301.9
55°	3722.3	3227.4	1317.3	344.0	297.7	324.8	326.3	307.1	294.1	299.2	300.8
57.5°	4206.9	3566.7	1213.7	314.9	276.9	301.4	321.6	310.7	300.8	319.1	320.6
60°	4629.5	3828.0	990.9	290.9	259.7	292.5	332.0	333.1	331.0	380.4	384.1
62.5°	4784.0	3830.5	703.7	270.7	250.3	297.7	353.9	355.5	355.5	401.3	408.1
65°	4567.6	3511.6	468.4	258.7	244.1	309.1	371.6	364.9	348.7	380.4	373.2
67.5°	3804.6	2733.4	342.5	250.8	235.3	309.6	387.2	370.0	342.5	369.5	357.0
70°	2614.8	1739.4	286.7	243.6	224.8	296.1	395.6	368.5	333.1	344.5	327.9
71°	2104.7	1388.0	272.2	241.0	220.7	288.4	396.6	366.4	328.4	335.7	320.6
72.5°	1386.5	855.1	254.5	235.3	214.4	274.8	393.9	361.7	322.1	322.6	312.8
75°	547.0	354.5	229.0	222.3	196.7	253.0	382.6	351.8	310.2	299.8	295.6
77.5°	276.4	231.6	201.4	204.0	175.9	230.6	366.4	335.7	293.6	279.5	276.4
80°	201.9	175.9	172.3	177.0	152.5	208.7	346.1	313.8	272.2	286.7	280.5
82.5°	122.9	107.2	134.8	146.3	127.6	186.3	322.1	288.4	245.1	225.9	218.6
85°	58.3	63.0	97.3	107.7	94.2	148.8	294.6	260.2	213.9	184.7	187.9
87.5°	28.6	34.9	55.6	64.5	61.9	109.3	222.3	201.9	168.6	138.9	135.8
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)