

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: P271358

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271358
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-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 6821.3 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

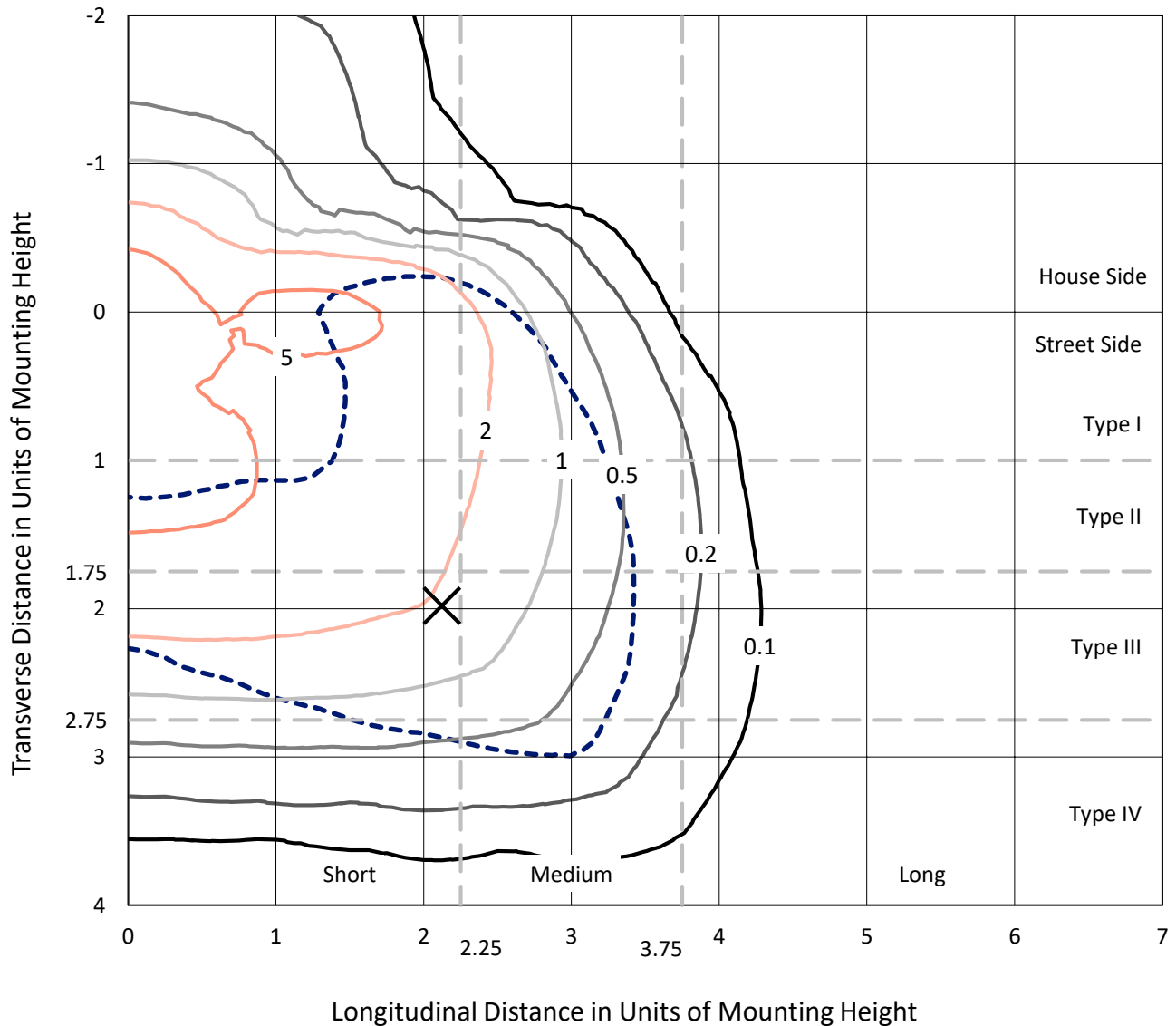


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

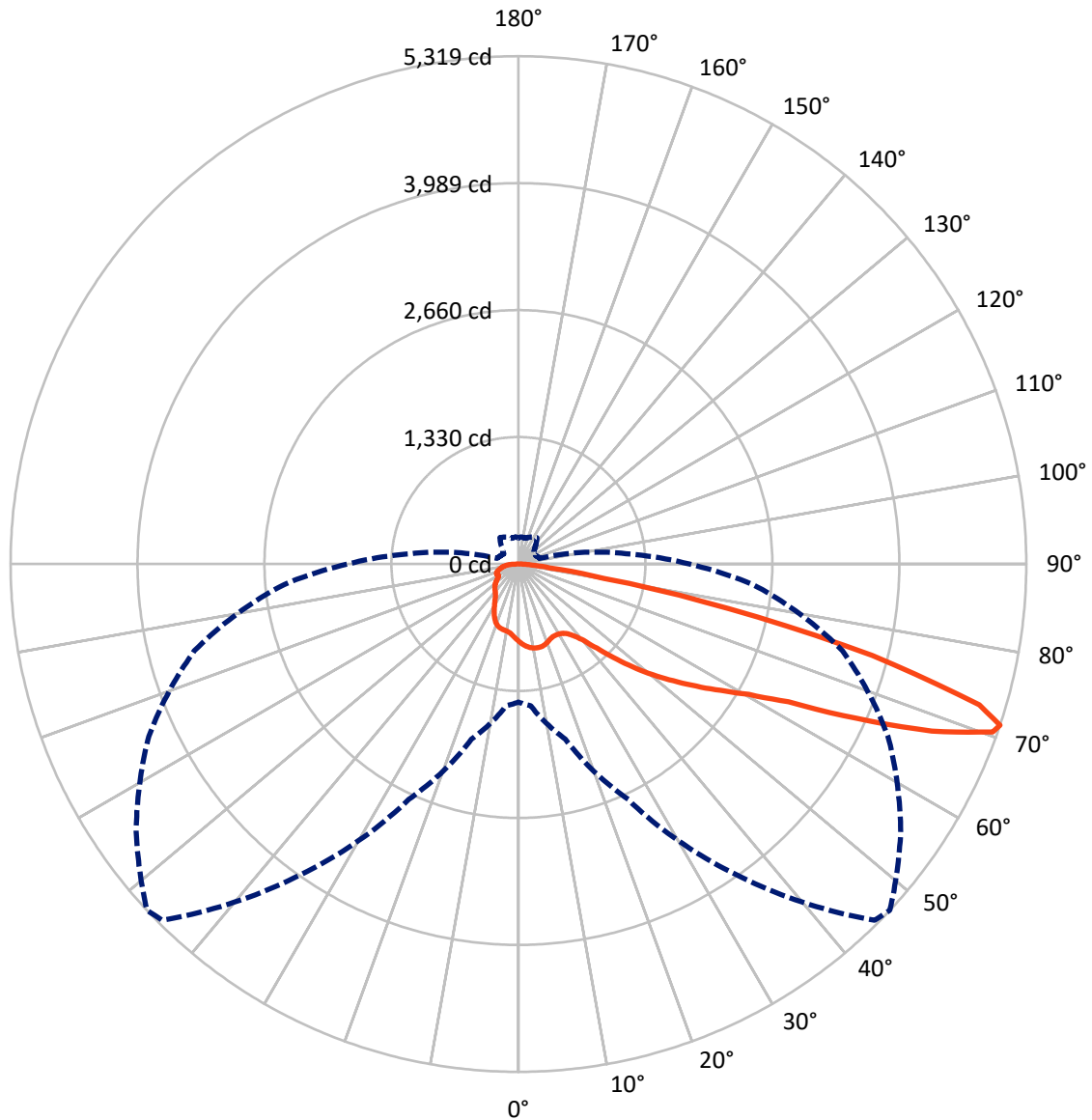


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

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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	1461.9	0.0	1461.9
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	5359.4	0.0	5359.4
	% Fixture	78.6	0.0	78.6
Total	Lumens	6821.3	0.0	6821.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	1.1
10°-20°	226.6	3.3
20°-30°	336.7	4.9
30°-40°	483.4	7.1
40°-50°	857.2	12.6
50°-60°	1466.7	21.5
60°-70°	2082.3	30.5
70°-80°	1140.4	16.7
80°-90°	150.5	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°	6821.3	100.0
0°-180°	6821.3	100.0

Coefficient of Utilization



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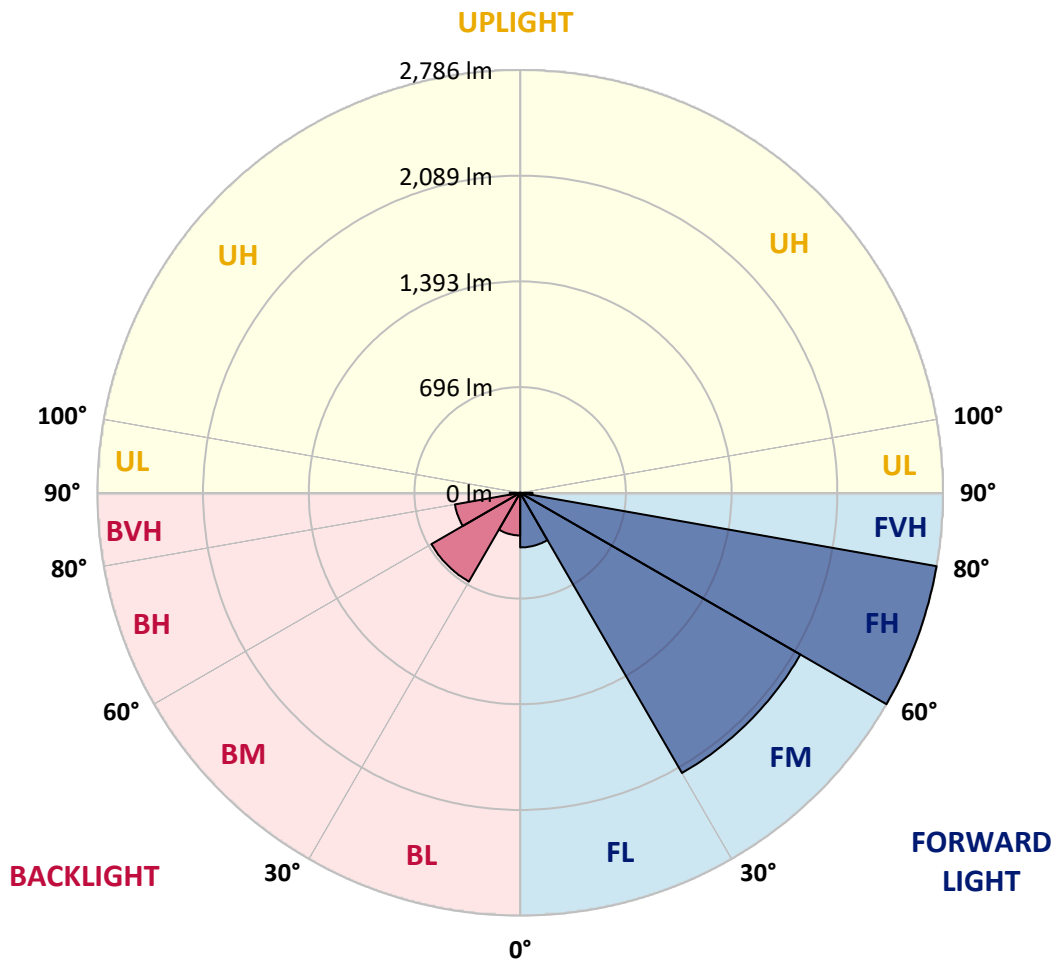
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.0	5.3			
FM	(30°-60°)	2131.9	31.3			
FH	(60°-80°)	2785.9	40.8			G2/5000
FVH	(80°-90°)	81.6	1.2			G1/100
BL	(0°-30°)	280.7	4.1	B1/500		
BM	(30°-60°)	675.5	9.9	B1/1000		
BH	(60°-80°)	436.8	6.4	B1/500		G1/500
BVH	(80°-90°)	68.9	1.0			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°	45°	47°	55°	65°	75°	85°
0°	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2
2.5°	860.7	858.9	859.8	856.8	849.2	841.3	841.3	832.8	823.9	815.1	805.4
5°	914.1	911.5	909.4	899.7	885.0	868.7	866.0	849.2	831.0	813.0	795.3
7.5°	958.9	956.2	949.5	931.8	910.6	886.3	883.3	861.1	837.2	812.1	787.4
10°	990.7	988.9	976.1	953.6	928.8	900.0	894.7	872.2	843.9	812.4	781.0
12.5°	1008.3	1005.7	990.2	963.7	934.4	905.3	900.0	878.4	846.2	811.6	774.9
15°	1001.3	1000.0	985.4	958.4	929.1	904.1	899.7	877.5	844.8	808.6	769.2
17.5°	971.2	974.3	962.9	936.3	912.4	894.7	889.9	869.1	838.1	801.0	760.3
20°	929.7	933.2	927.4	900.6	886.7	875.3	872.7	855.8	827.1	790.0	749.7
22.5°	885.4	888.6	889.0	863.8	859.4	854.9	852.8	840.8	817.4	783.3	742.7
25°	854.9	858.5	859.4	837.2	839.8	841.3	840.8	832.4	815.7	783.3	743.5
27.5°	847.0	848.8	847.9	827.5	832.4	839.8	840.4	838.6	822.7	792.1	756.0
30°	874.4	875.3	864.2	833.6	838.6	848.3	848.8	847.9	837.7	815.1	783.7
32.5°	992.8	992.0	953.9	875.3	858.5	862.1	863.4	871.3	872.2	853.2	823.9
35°	1173.1	1172.7	1128.6	994.2	915.1	896.5	898.2	910.6	921.8	908.8	892.0
37.5°	1371.7	1373.0	1346.0	1163.9	1037.1	959.7	958.0	967.3	987.1	991.5	993.7
40°	1591.8	1598.4	1597.1	1358.9	1208.1	1067.5	1049.8	1039.2	1077.7	1102.0	1133.4
42.5°	1843.3	1841.5	1842.5	1572.8	1403.5	1237.3	1204.5	1155.1	1199.7	1241.7	1310.6
45°	2059.5	2066.6	2071.9	1800.6	1622.2	1431.4	1398.2	1308.0	1348.3	1411.1	1516.2
47.5°	2277.1	2264.6	2274.4	2053.7	1865.9	1652.8	1609.9	1488.4	1526.0	1614.3	1774.4
50°	2530.3	2524.5	2480.4	2384.5	2160.3	1877.4	1821.3	1676.6	1731.6	1849.5	2093.1
52.5°	2757.5	2726.5	2692.1	2644.4	2449.9	2104.5	2033.5	1872.5	1973.3	2119.6	2488.8
55°	2840.6	2819.9	2861.5	2923.3	2756.2	2336.2	2256.7	2101.0	2246.0	2428.7	2954.3
57.5°	2929.1	2936.1	3029.9	3154.9	3046.2	2583.3	2497.2	2371.6	2545.3	2774.3	3474.6
60°	2973.2	3001.5	3188.5	3423.3	3322.0	2854.4	2771.7	2682.3	2877.4	3156.3	3993.5
62.5°	2980.8	3018.8	3283.6	3517.5	3701.7	3269.4	3173.9	3077.1	3292.0	3578.4	4369.3
65°	2842.9	2901.2	3275.2	3633.3	4047.9	3963.1	3902.4	3733.5	3847.3	3950.1	4433.3
67.5°	2437.6	2501.2	2951.1	3585.4	4325.5	4682.7	4671.1	4421.8	4276.0	4093.8	3958.1
70°	1789.0	1840.3	2272.6	3065.1	4204.3	5247.5	5267.9	4867.8	4395.8	3788.8	2943.1
71°	1446.8	1491.0	1898.6	2721.2	3968.4	5276.7	5319.3	4887.8	4271.1	3513.5	2464.1
72.5°	900.6	925.3	1260.7	2053.7	3417.1	4976.3	5047.8	4633.2	3878.5	2969.6	1741.6
75°	340.0	349.7	467.7	905.9	2039.6	3738.4	3825.2	3501.6	2724.7	1695.3	729.0
77.5°	182.5	187.4	232.1	376.6	817.4	2143.0	2254.4	1997.2	1307.2	593.2	298.0
80°	122.4	125.6	160.4	223.1	375.8	816.0	908.8	801.8	489.3	338.7	212.2
82.5°	79.1	80.8	109.1	146.8	242.7	286.9	327.5	342.2	305.5	242.7	128.2
85°	52.1	53.4	72.0	93.8	150.2	141.5	144.9	189.6	208.1	160.0	65.4
87.5°	30.1	30.9	43.3	48.1	67.6	53.0	57.5	90.2	123.7	104.4	37.5
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°	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2
2.5°	801.0	797.4	789.5	784.6	782.5	781.5	780.6	782.5	782.5	781.5	779.8
5°	786.3	779.8	766.6	757.2	752.4	751.1	752.8	755.0	756.4	756.4	755.0
7.5°	775.7	766.1	748.4	735.6	728.0	725.8	730.7	738.6	743.9	746.6	747.1
10°	767.0	753.7	734.3	721.0	714.8	714.0	720.1	730.2	741.3	746.2	747.1
12.5°	759.0	743.9	722.7	710.4	706.0	708.1	716.6	725.8	738.6	745.8	746.2
15°	751.5	736.0	713.4	700.7	699.8	703.4	711.3	718.7	728.4	737.4	737.4
17.5°	742.7	725.8	702.5	690.4	690.4	693.6	698.9	702.8	709.0	717.4	716.9
20°	732.1	714.8	690.9	678.6	676.0	674.1	674.1	675.0	680.3	687.8	689.2
22.5°	724.0	706.3	681.3	666.2	654.2	642.7	637.8	636.1	641.0	648.0	649.8
25°	724.0	706.3	678.1	652.9	623.8	601.7	592.3	589.6	594.6	601.1	603.8
27.5°	736.0	718.4	685.1	641.0	587.5	552.1	541.0	538.9	543.3	548.5	551.2
30°	763.9	746.6	705.4	627.2	547.2	500.9	488.5	486.3	488.5	490.7	493.8
32.5°	810.4	795.7	738.6	614.9	506.6	454.5	439.5	435.9	436.8	437.1	439.8
35°	885.9	879.3	782.9	600.2	468.1	416.5	401.0	393.8	393.4	395.7	398.8
37.5°	1001.7	1005.7	839.8	579.0	436.2	389.4	374.0	366.9	363.4	367.8	371.3
40°	1165.2	1174.5	905.9	550.3	410.3	373.5	357.2	350.6	345.7	344.4	346.1
42.5°	1377.9	1375.2	973.0	513.7	381.9	362.9	345.7	338.7	330.7	320.4	318.3
45°	1629.9	1591.8	1029.1	468.6	349.7	352.8	335.1	325.4	313.0	298.0	296.3
47.5°	1927.4	1822.7	1063.6	420.3	319.5	339.5	323.1	308.1	290.1	280.2	279.0
50°	2285.8	2092.7	1087.8	371.3	292.7	322.8	306.3	286.5	268.8	266.1	265.7
52.5°	2710.2	2411.4	1117.9	327.2	271.4	301.0	289.6	269.2	255.1	256.3	256.3
55°	3161.6	2741.2	1118.7	292.2	252.9	275.8	277.1	260.8	249.8	254.2	255.5
57.5°	3573.1	3029.4	1030.8	267.4	235.1	255.9	273.2	263.9	255.5	271.0	272.2
60°	3932.1	3251.2	841.6	247.2	220.5	248.4	282.1	283.0	281.2	323.1	326.3
62.5°	4063.4	3253.5	597.6	229.8	212.5	252.9	300.7	301.9	301.9	340.8	346.6
65°	3879.5	2982.6	397.9	219.6	207.2	262.6	315.7	309.8	296.3	323.1	316.9
67.5°	3231.5	2321.7	291.0	213.1	199.9	263.1	328.9	314.2	291.0	313.9	303.3
70°	2220.9	1477.4	243.6	206.9	191.0	251.5	336.0	313.0	283.0	292.7	278.5
71°	1787.6	1178.9	231.3	204.6	187.4	244.9	336.9	311.3	279.0	285.1	272.2
72.5°	1177.6	726.3	216.1	199.9	182.1	233.4	334.6	307.2	273.7	274.1	265.7
75°	464.7	301.0	194.6	188.7	167.1	214.9	324.8	298.9	263.5	254.6	251.0
77.5°	234.7	196.6	171.0	173.4	149.4	195.8	311.3	285.1	249.3	237.4	234.7
80°	171.5	149.4	146.3	150.2	129.5	177.2	293.9	266.5	231.3	243.6	238.3
82.5°	104.4	91.1	114.5	124.2	108.2	158.2	273.7	244.9	208.1	191.9	185.7
85°	49.4	53.4	82.6	91.4	79.9	126.4	250.2	221.1	181.6	156.9	159.5
87.5°	24.3	29.6	47.3	54.7	52.6	92.9	188.7	171.5	143.2	118.0	115.4
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)