

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: P198761

Luminaire Tested: **XNV2-AF-02-LED-U-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
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-T2-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13245.2 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

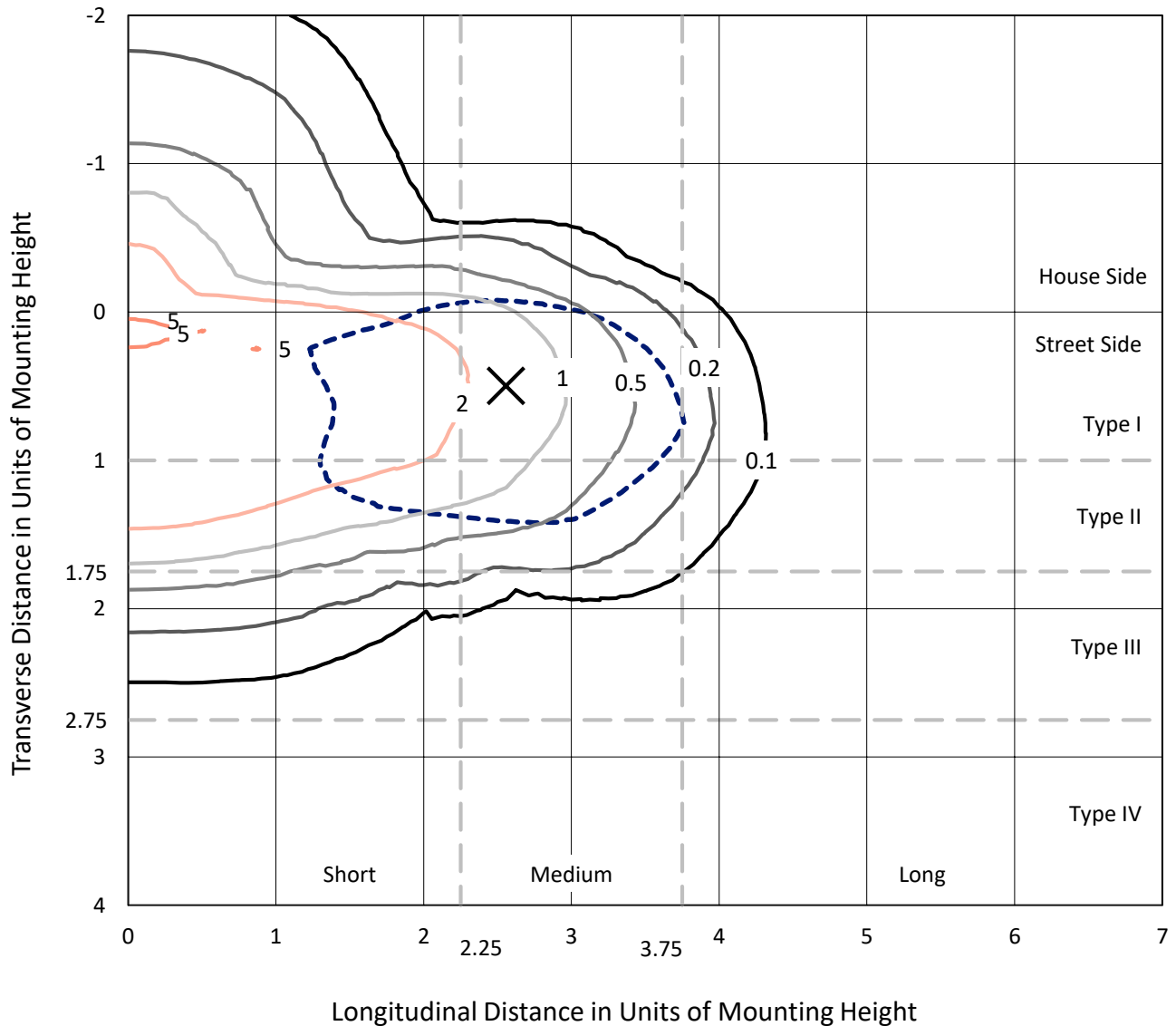
Input Watts (W): 128
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

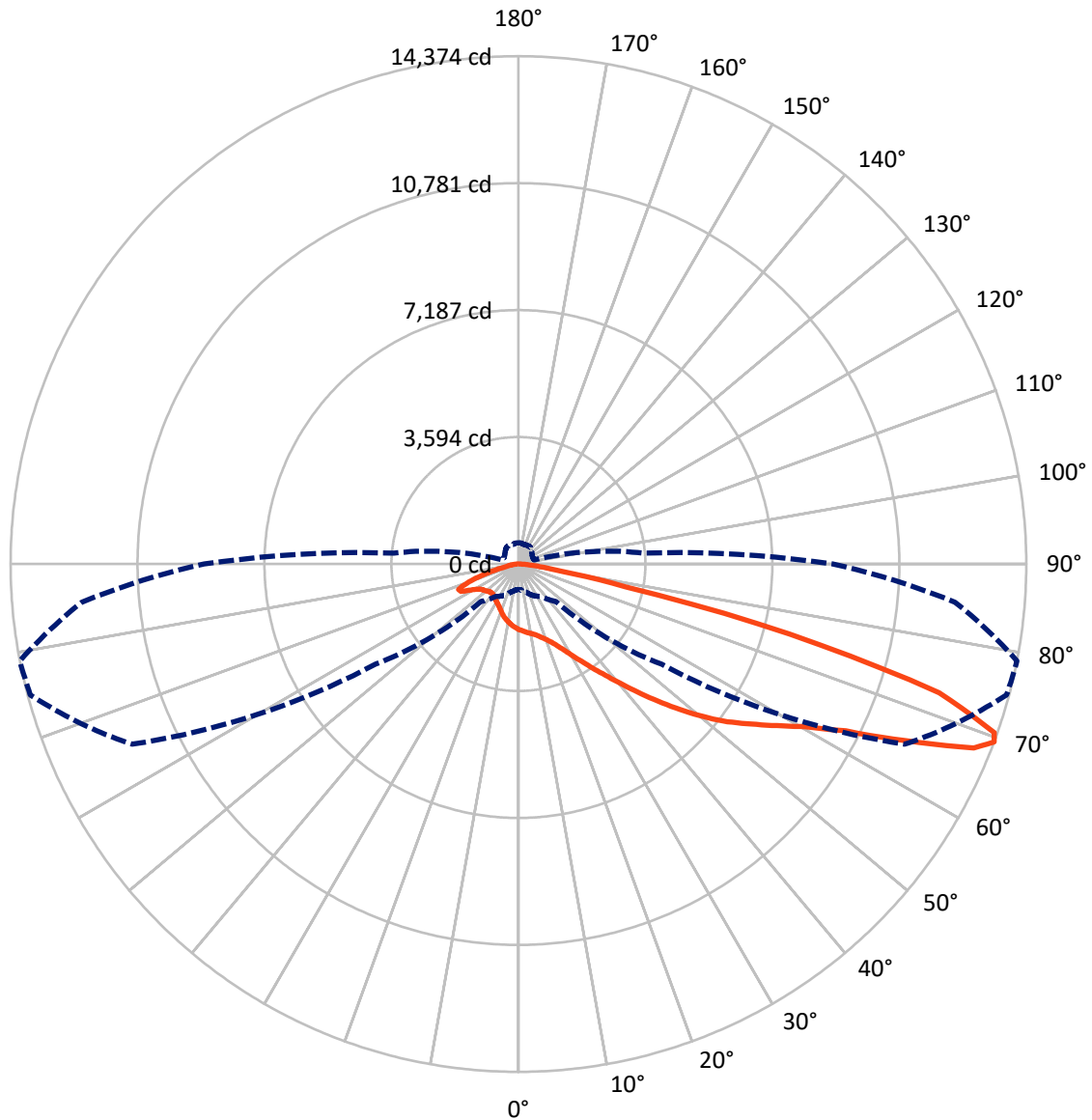
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.7	0.0	2491.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10753.5	0.0	10753.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	13245.2	0.0	13245.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.3
10°-20°	494.0	3.7
20°-30°	816.3	6.2
30°-40°	1321.8	10.0
40°-50°	2111.6	15.9
50°-60°	3024.1	22.8
60°-70°	3369.3	25.4
70°-80°	1685.6	12.7
80°-90°	250.2	1.9
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°	13245.2	100.0
0°-180°	13245.2	100.0

Coefficient of Utilization



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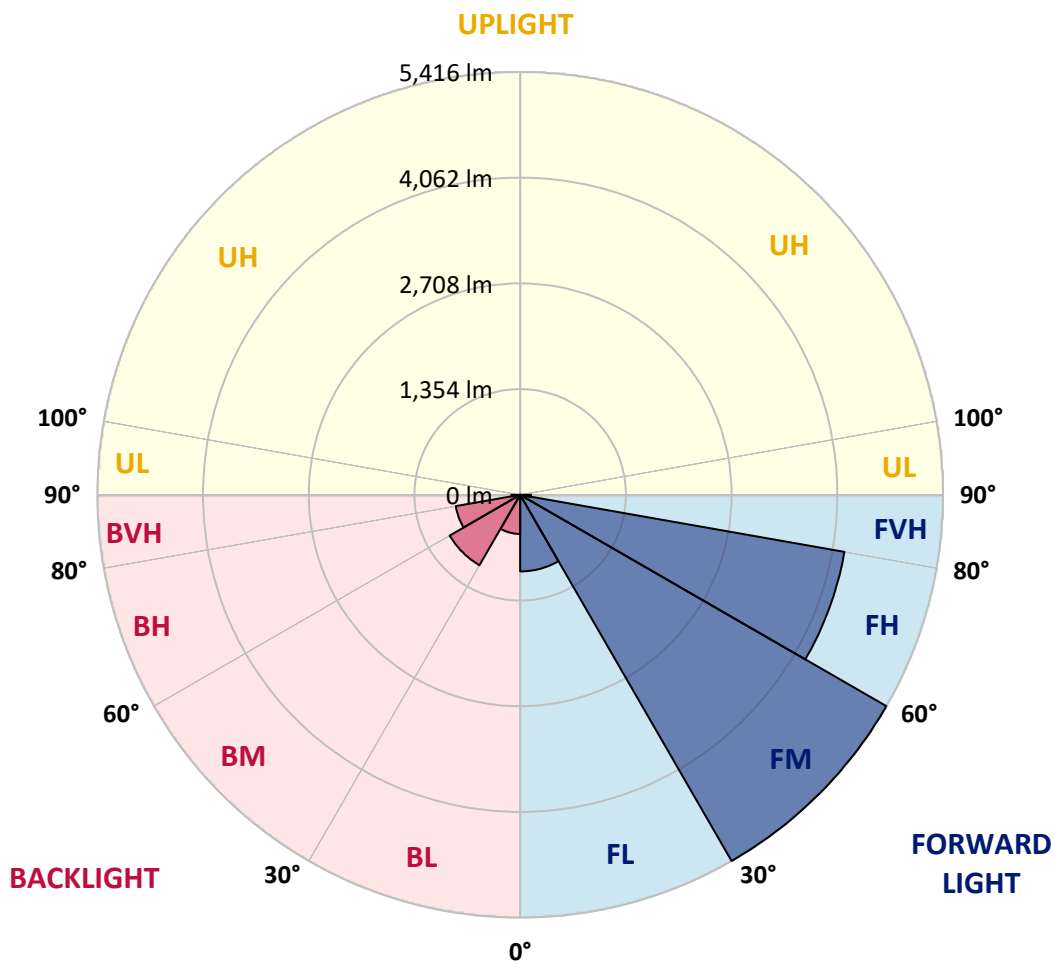
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.7	7.4			
FM (30°-60°)	5416.0	40.9			
FH (60°-80°)	4217.1	31.8			G2/5000
FVH (80°-90°)	139.8	1.1			G2/225
BL (0°-30°)	501.9	3.8	B2/1000		
BM (30°-60°)	1041.6	7.9	B2/2500		
BH (60°-80°)	837.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	110.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	2040.7	2036.4	2035.5	2022.5	2015.5	2000.8	1966.2	1930.6	1897.7	1880.4	1862.2
5°	2211.4	2202.7	2198.4	2176.7	2157.7	2124.8	2070.1	2013.8	1954.9	1924.6	1888.2
7.5°	2314.5	2315.3	2315.3	2298.1	2279.0	2239.1	2169.8	2092.7	2005.2	1965.3	1908.1
10°	2323.2	2324.0	2337.0	2341.3	2345.7	2324.9	2260.8	2163.7	2051.1	1999.1	1924.6
12.5°	2237.4	2243.4	2265.1	2296.3	2340.5	2363.0	2335.3	2240.0	2110.0	2046.7	1955.8
15°	2122.1	2128.2	2156.0	2203.6	2274.6	2350.0	2389.0	2327.5	2187.2	2112.6	2001.7
17.5°	2065.8	2072.7	2091.8	2130.0	2199.2	2300.6	2417.6	2421.1	2278.1	2192.3	2056.3
20°	2038.9	2044.2	2068.4	2099.6	2152.5	2249.6	2420.2	2519.8	2386.4	2286.8	2123.0
22.5°	2100.5	2102.2	2114.3	2131.6	2167.2	2241.7	2418.5	2622.1	2521.6	2405.5	2208.8
25°	2280.7	2269.4	2260.8	2239.1	2247.8	2300.6	2446.2	2731.3	2695.0	2561.5	2323.2
27.5°	2493.9	2492.1	2469.6	2419.4	2387.3	2421.1	2525.1	2853.5	2907.2	2759.9	2473.1
30°	2731.3	2732.2	2708.8	2647.3	2582.2	2585.7	2650.8	2994.8	3161.1	2999.1	2657.6
32.5°	2980.1	2995.6	2952.2	2890.8	2811.9	2786.7	2831.0	3165.4	3454.9	3281.5	2871.7
35°	3277.2	3279.8	3232.2	3142.1	3063.2	3023.3	3064.0	3378.6	3793.7	3613.5	3132.5
37.5°	3585.7	3587.5	3538.1	3422.8	3323.2	3297.2	3342.2	3637.7	4152.5	3991.2	3439.3
40°	3837.9	3856.1	3817.0	3708.8	3608.3	3592.6	3657.7	3948.0	4610.8	4438.4	3804.0
42.5°	4123.8	4144.6	4097.8	3985.2	3905.4	3900.3	4001.7	4301.5	5066.7	4955.7	4217.4
45°	4446.2	4475.6	4410.7	4284.1	4216.6	4331.0	4337.0	4693.2	5591.8	5534.6	4682.8
47.5°	4798.0	4822.3	4769.4	4633.4	4559.7	4725.2	4665.4	5116.9	6159.3	6155.0	5186.2
50°	5069.2	5096.1	5101.3	5041.5	4964.4	4985.1	5025.9	5562.3	6725.2	6792.8	5707.0
52.5°	5019.8	5045.8	5162.8	5319.7	5443.5	5389.8	5439.2	6035.4	7272.0	7415.0	6201.7
55°	4621.2	4635.1	4854.3	5227.0	5754.6	6011.2	6014.6	6550.2	7791.9	7992.0	6671.5
57.5°	3902.9	3904.6	4189.7	4739.0	5573.5	6414.1	6922.7	7196.6	8334.3	8629.8	7253.7
60°	2761.7	2768.6	3100.5	3818.8	4924.5	6365.5	7899.3	8353.4	8962.6	9346.4	8004.2
62.5°	1639.5	1655.0	1905.6	2481.8	3657.7	5741.6	8476.5	10411.4	9888.0	10397.6	9205.2
65°	1066.7	1079.7	1229.6	1519.1	2161.1	4177.5	8286.6	12404.4	11639.2	12050.9	10931.4
67.5°	821.4	831.9	949.7	1124.7	1325.8	2258.2	6625.6	12822.1	13771.0	13899.2	12387.9
69°	721.8	730.5	817.1	985.2	1116.1	1494.7	4937.5	12063.9	14303.9	14374.1	12406.1
70°	669.0	675.9	757.4	903.0	1025.1	1193.2	3779.0	11183.5	14108.9	14288.3	12048.3
72.5°	551.2	557.2	615.2	727.0	837.9	850.1	1674.2	8166.2	11880.1	12453.8	10195.6
75°	460.1	463.6	501.8	583.2	678.5	676.8	855.3	4625.6	7249.4	7933.1	6295.3
77.5°	383.9	386.5	411.6	461.9	535.5	533.0	602.2	1996.5	3201.0	3088.3	2167.2
80°	338.8	340.5	353.5	366.5	413.4	410.7	446.3	916.8	1302.4	1203.6	819.7
82.5°	257.4	260.9	326.7	332.8	320.6	309.3	311.1	533.8	667.3	607.4	440.2
85°	145.6	146.5	209.7	245.2	279.1	209.7	201.9	275.6	329.3	288.6	192.4
87.5°	65.0	67.6	100.6	116.1	150.8	123.1	115.3	117.0	142.1	117.8	76.2
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°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	1844.9	1830.2	1795.5	1759.9	1724.4	1701.9	1678.5	1656.8	1648.2	1647.3	1630.8
5°	1852.7	1818.0	1739.1	1652.5	1570.1	1506.0	1452.3	1417.6	1383.8	1377.8	1363.1
7.5°	1855.2	1799.0	1670.7	1532.1	1406.4	1318.0	1264.3	1240.8	1224.4	1220.1	1214.9
10°	1854.4	1774.6	1594.5	1404.6	1261.7	1194.9	1175.1	1180.2	1187.1	1190.6	1190.6
12.5°	1868.2	1763.4	1518.2	1285.0	1168.1	1136.0	1151.6	1178.4	1199.3	1207.9	1209.6
15°	1893.4	1756.5	1434.1	1181.1	1102.2	1110.0	1148.2	1187.1	1216.6	1229.6	1233.1
17.5°	1924.6	1746.9	1337.1	1095.3	1064.1	1091.0	1140.4	1189.8	1225.3	1241.8	1244.3
20°	1959.3	1733.1	1236.5	1031.1	1030.3	1064.1	1113.5	1168.9	1207.1	1225.3	1224.4
22.5°	2006.0	1720.1	1142.9	984.4	993.1	1024.3	1065.0	1115.2	1150.7	1167.2	1163.7
25°	2068.4	1707.9	1058.9	942.8	950.6	971.4	999.9	1038.1	1063.3	1072.0	1065.8
27.5°	2152.5	1698.4	993.1	904.7	903.8	913.3	930.7	951.4	963.6	961.0	951.4
30°	2255.6	1688.9	944.5	870.8	858.8	857.8	865.6	877.8	885.6	870.0	862.2
32.5°	2370.8	1672.4	901.2	841.4	819.7	811.9	815.4	831.9	864.0	848.3	842.3
35°	2506.8	1653.4	857.8	809.4	792.9	778.2	780.7	816.3	913.3	902.0	896.0
37.5°	2670.6	1636.0	818.1	774.7	773.9	755.7	753.9	796.4	926.3	902.0	896.8
40°	2867.3	1632.5	782.5	736.5	750.4	743.5	737.4	763.4	854.4	805.0	795.4
42.5°	3104.8	1648.2	756.5	700.2	723.5	740.0	728.8	734.8	772.1	727.9	720.1
45°	3382.1	1690.6	737.4	668.1	695.0	737.4	724.5	719.2	725.3	701.0	695.8
47.5°	3705.3	1766.0	724.5	641.2	668.1	730.5	722.7	712.3	709.7	695.8	692.3
50°	4051.1	1867.4	715.8	616.9	643.8	718.3	721.8	707.1	702.8	696.7	695.0
52.5°	4394.2	1977.5	705.3	596.2	623.9	703.6	722.7	701.8	695.8	692.3	690.6
55°	4735.6	2091.8	686.3	578.0	609.2	686.3	721.8	695.0	688.0	688.0	688.0
57.5°	5178.4	2265.9	661.1	563.2	590.1	663.8	710.5	687.1	677.6	678.5	679.3
60°	5817.9	2558.0	633.4	546.8	565.0	637.8	693.3	673.3	662.1	665.5	666.4
62.5°	6886.3	3068.4	595.4	523.3	539.0	610.1	670.6	654.3	643.8	649.9	650.8
65°	8311.0	3686.2	545.0	493.9	512.1	578.9	642.1	631.7	620.4	635.2	634.3
67.5°	9180.1	3867.4	492.1	462.7	486.1	545.9	606.6	602.2	594.4	620.4	618.7
69°	8895.0	3539.8	461.9	442.8	467.9	523.3	584.0	582.3	576.2	601.4	599.7
70°	8452.1	3233.9	442.8	429.8	458.4	509.5	569.3	569.3	563.2	584.9	580.6
72.5°	6789.3	2398.6	398.6	396.9	425.4	471.4	529.5	533.8	530.3	538.1	533.8
75°	3986.0	1445.4	355.3	360.5	385.7	430.7	485.3	488.8	485.3	484.4	485.3
77.5°	1382.1	648.1	313.6	321.5	343.1	389.0	436.7	443.7	438.4	432.4	434.1
80°	540.7	377.0	268.6	279.9	298.1	342.3	388.2	392.5	384.7	383.9	377.0
82.5°	325.0	229.7	208.8	227.0	249.6	297.3	335.3	333.6	327.5	363.0	318.0
85°	141.3	127.4	152.5	170.7	182.0	222.7	283.4	275.6	260.9	229.7	224.4
87.5°	57.2	65.9	84.1	101.4	109.1	143.8	194.1	187.2	189.8	156.0	155.1
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)