

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: P271340

Luminaire Tested: **XNV2-AF-02-LED-U-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271340
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-T2-7027-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11249.7 lumens
Efficiency: N/A
Efficacy: 87.9 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 (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

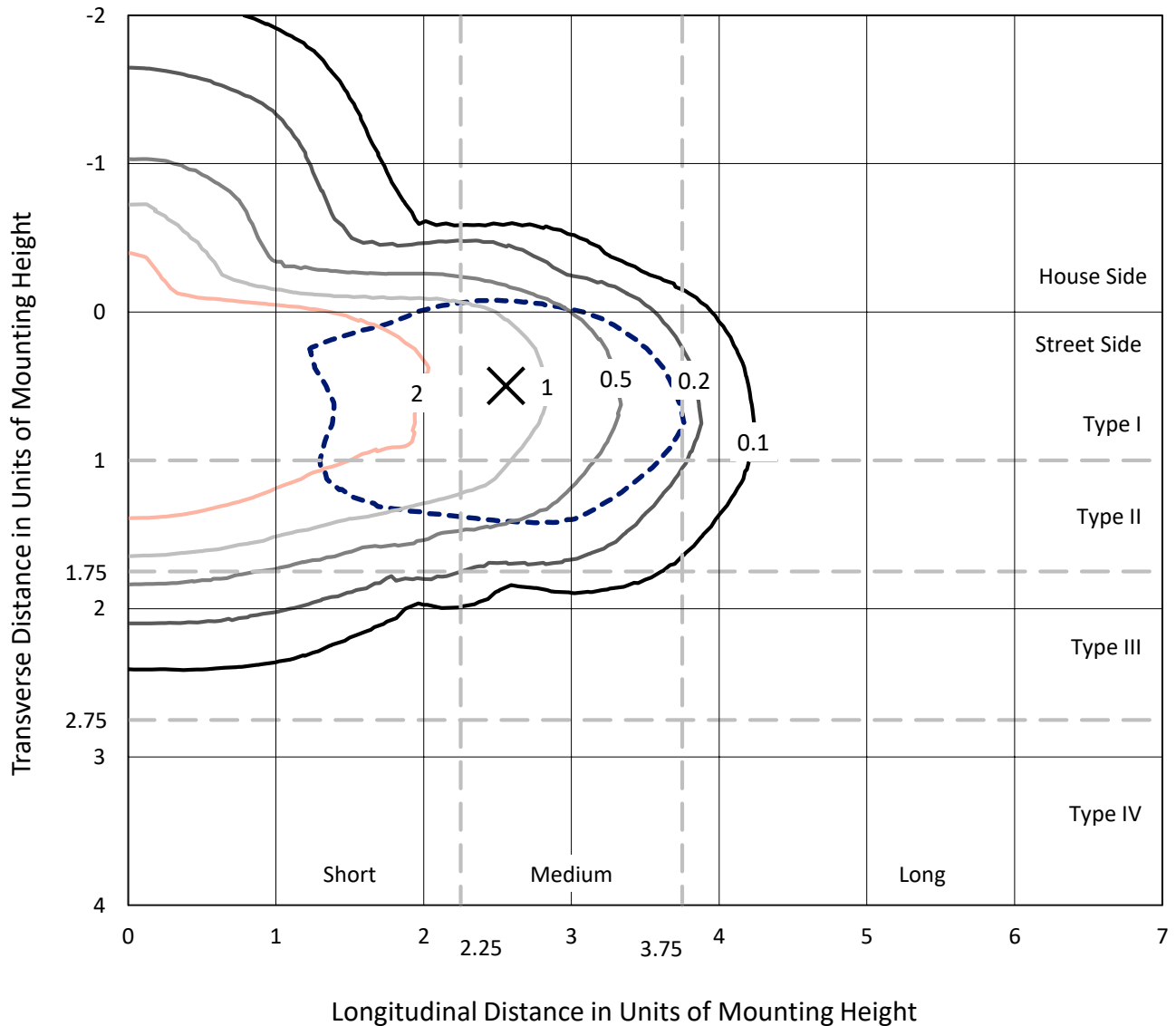


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Iso-Footcandle Lines of Horizontal Illumination

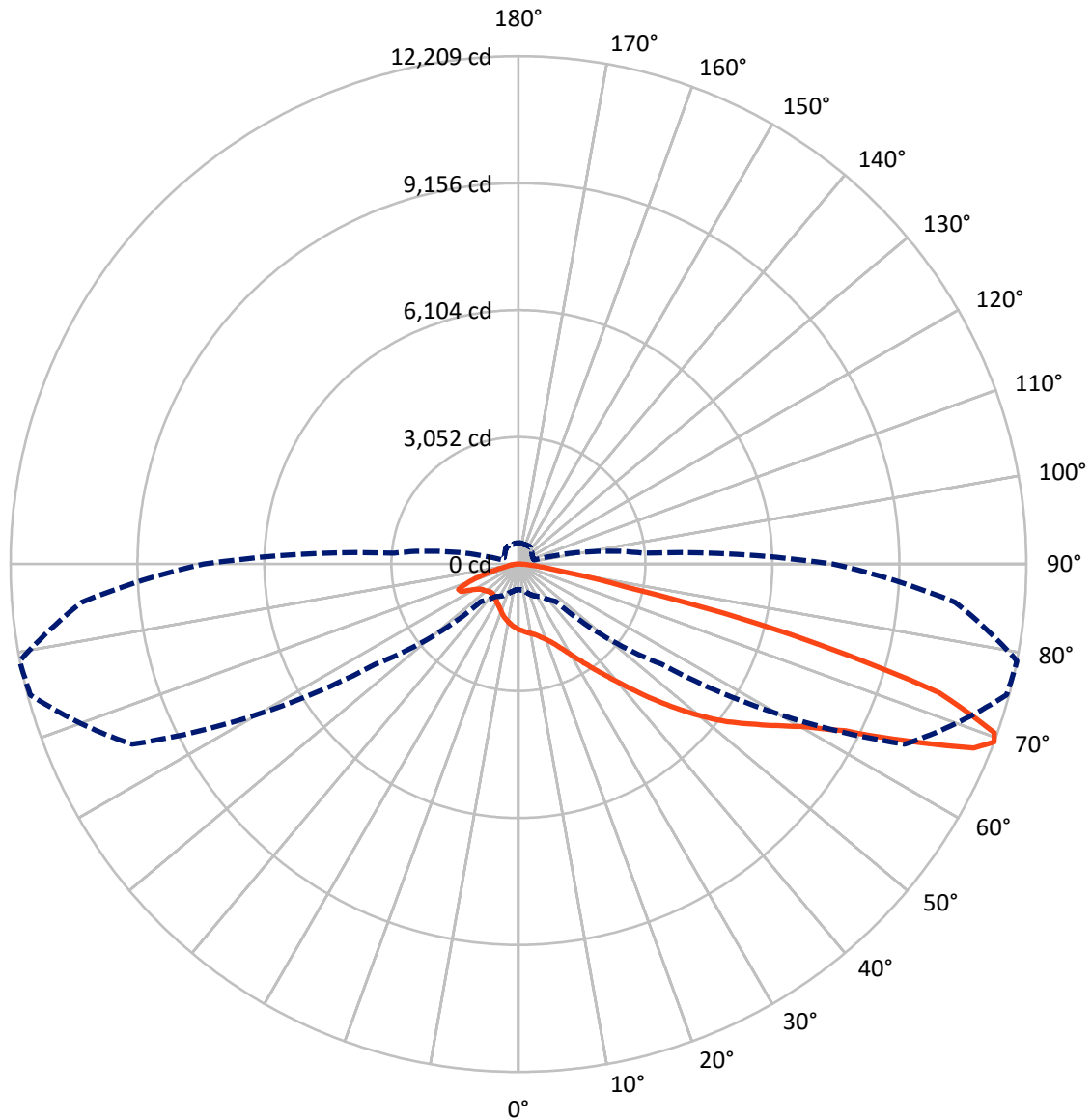
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2116.3	0.0	2116.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9133.5	0.0	9133.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	11249.7	0.0	11249.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	1.3
10°-20°	419.6	3.7
20°-30°	693.3	6.2
30°-40°	1122.7	10.0
40°-50°	1793.5	15.9
50°-60°	2568.5	22.8
60°-70°	2861.7	25.4
70°-80°	1431.7	12.7
80°-90°	212.5	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°	11249.7	100.0
0°-180°	11249.7	100.0

Coefficient of Utilization



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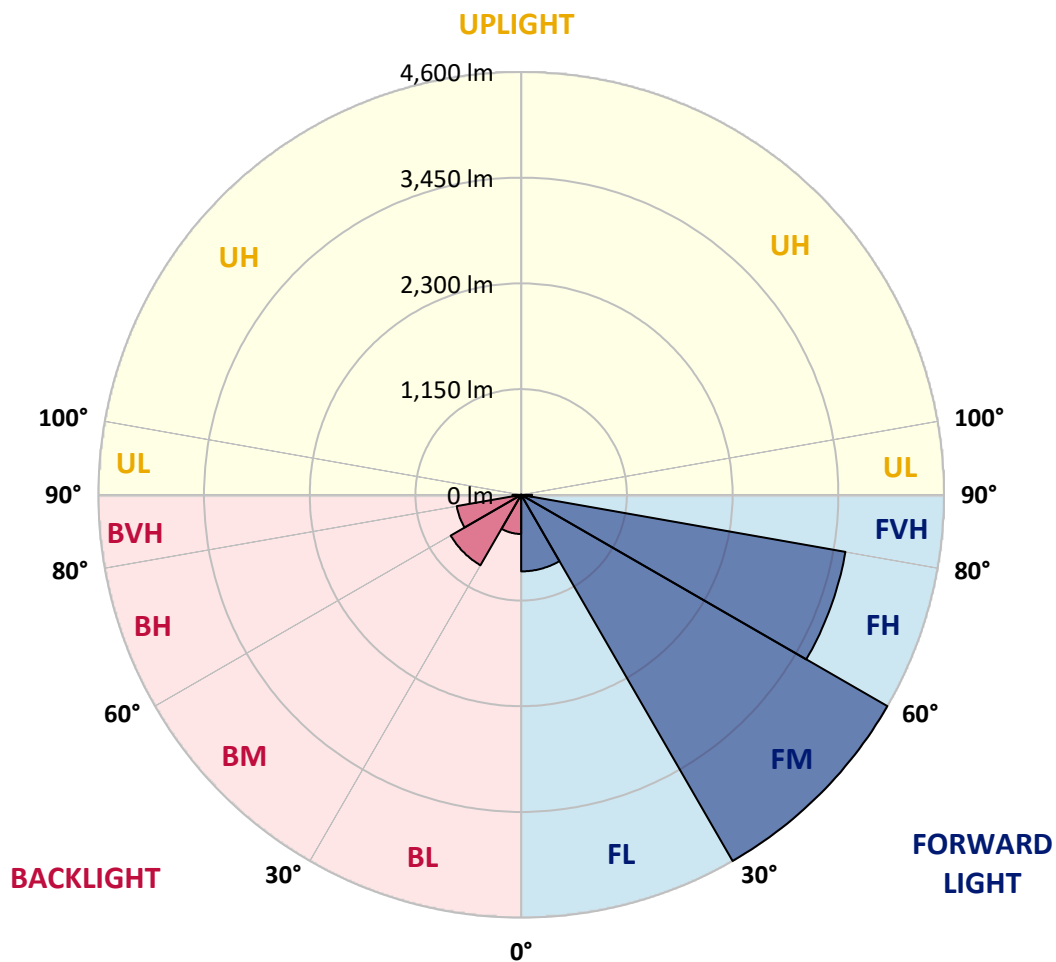
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.9	7.4			
FM (30°-60°)	4600.0	40.9			
FH (60°-80°)	3581.8	31.8			G2/5000
FVH (80°-90°)	118.7	1.1			G2/225
BL (0°-30°)	426.3	3.8	B1/500		
BM (30°-60°)	884.6	7.9	B1/1000		
BH (60°-80°)	711.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	93.7	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1733.3	1729.5	1728.9	1717.7	1711.9	1699.5	1669.9	1639.8	1611.7	1597.0	1581.6
5°	1878.3	1870.9	1867.1	1848.8	1832.6	1804.7	1758.3	1710.5	1660.3	1634.6	1603.7
7.5°	1965.9	1966.6	1966.6	1951.8	1935.7	1901.8	1843.0	1777.3	1703.0	1669.2	1620.6
10°	1973.1	1973.9	1985.0	1988.7	1992.4	1974.7	1920.1	1837.8	1742.2	1697.9	1634.6
12.5°	1900.4	1905.5	1923.9	1950.4	1987.9	2007.1	1983.5	1902.5	1792.1	1738.4	1661.1
15°	1802.4	1807.6	1831.1	1871.6	1932.0	1996.0	2029.1	1976.9	1857.7	1794.4	1700.1
17.5°	1754.6	1760.5	1776.7	1809.0	1867.9	1954.1	2053.3	2056.3	1934.9	1862.0	1746.6
20°	1731.8	1736.2	1756.8	1783.2	1828.2	1910.7	2055.6	2140.2	2026.9	1942.2	1803.2
22.5°	1784.0	1785.6	1795.8	1810.5	1840.6	1904.0	2054.2	2227.1	2141.6	2043.1	1876.0
25°	1937.1	1927.6	1920.1	1901.8	1909.2	1954.1	2077.7	2319.9	2288.9	2175.5	1973.1
27.5°	2118.2	2116.6	2097.5	2054.9	2027.7	2056.3	2144.7	2423.5	2469.3	2344.1	2100.4
30°	2319.9	2320.6	2300.6	2248.5	2193.2	2196.1	2251.4	2543.6	2684.9	2547.2	2257.4
32.5°	2531.1	2544.3	2507.4	2455.2	2388.2	2366.9	2404.5	2688.5	2934.4	2787.3	2439.1
35°	2783.5	2785.7	2745.2	2668.7	2601.8	2567.8	2602.5	2869.6	3222.2	3069.1	2660.6
37.5°	3045.6	3047.1	3005.0	2907.2	2822.6	2800.5	2838.7	3089.7	3526.8	3389.9	2921.2
40°	3259.7	3275.1	3242.1	3150.0	3064.7	3051.5	3106.6	3353.2	3916.3	3769.7	3230.9
42.5°	3502.6	3520.2	3480.6	3384.9	3317.1	3312.7	3398.7	3653.4	4303.3	4209.1	3582.0
45°	3776.4	3801.4	3746.2	3638.8	3581.4	3678.5	3683.6	3986.0	4749.2	4700.7	3977.2
47.5°	4075.3	4095.8	4050.8	3935.4	3872.8	4013.4	3962.6	4346.0	5231.4	5227.7	4404.8
50°	4305.5	4328.4	4332.7	4282.0	4216.5	4234.2	4268.7	4724.2	5712.1	5769.5	4847.3
52.5°	4263.5	4285.6	4385.0	4518.3	4623.4	4577.9	4619.9	5126.2	6176.3	6297.8	5267.5
55°	3925.1	3936.8	4123.0	4439.5	4887.7	5105.5	5108.5	5563.4	6618.1	6788.0	5666.4
57.5°	3314.8	3316.4	3558.5	4025.1	4733.9	5447.9	5879.8	6112.3	7078.7	7329.7	6160.9
60°	2345.7	2351.5	2633.4	3243.5	4182.6	5406.5	6709.4	7095.0	7612.3	7938.3	6798.4
62.5°	1392.6	1405.8	1618.4	2107.9	3106.6	4876.7	7199.5	8842.8	8398.3	8831.1	7818.4
65°	906.0	917.0	1044.4	1290.1	1835.5	3548.1	7038.2	10535.7	9885.8	10235.4	9284.5
67.5°	697.8	706.5	806.7	955.3	1126.0	1918.1	5627.3	10890.4	11696.3	11805.3	10521.7
69°	613.1	620.4	694.0	836.9	947.9	1269.6	4193.6	10246.4	12148.9	12208.5	10537.2
70°	568.2	574.0	643.2	767.0	870.6	1013.5	3209.6	9498.7	11983.4	12135.7	10233.2
72.5°	468.0	473.2	522.5	617.5	711.6	722.0	1421.9	6936.0	10090.4	10577.6	8659.7
75°	390.9	393.7	426.2	495.3	576.4	574.8	726.4	3928.6	6157.3	6737.9	5346.9
77.5°	326.1	328.2	349.6	392.3	454.8	452.7	511.6	1695.7	2718.7	2623.1	1840.6
80°	287.7	289.3	300.3	311.4	351.1	348.8	379.1	778.7	1106.3	1022.4	696.2
82.5°	218.6	221.5	277.4	282.6	272.4	262.8	264.2	453.4	566.7	515.9	373.9
85°	123.6	124.3	178.1	208.2	237.1	178.1	171.4	234.1	279.7	245.1	163.4
87.5°	55.2	57.4	85.3	98.6	128.1	104.6	97.8	99.4	120.7	100.2	64.8
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°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1567.0	1554.3	1525.0	1494.8	1464.6	1445.6	1425.6	1407.3	1399.9	1399.1	1385.1
5°	1573.6	1544.0	1477.2	1403.5	1333.7	1279.1	1233.6	1204.1	1175.3	1170.2	1157.7
7.5°	1575.7	1527.8	1419.1	1301.3	1194.4	1119.5	1073.8	1053.9	1040.0	1036.3	1031.9
10°	1575.0	1507.3	1354.3	1192.9	1071.6	1014.9	997.9	1002.4	1008.3	1011.2	1011.2
12.5°	1586.8	1497.7	1289.4	1091.5	992.1	964.9	978.2	1000.9	1018.6	1026.0	1027.4
15°	1608.1	1491.8	1218.0	1003.1	936.2	942.9	975.2	1008.3	1033.3	1044.4	1047.3
17.5°	1634.6	1483.7	1135.6	930.3	903.8	926.6	968.6	1010.6	1040.6	1054.7	1056.9
20°	1664.1	1472.0	1050.3	875.8	875.0	903.8	945.7	992.8	1025.2	1040.6	1040.0
22.5°	1703.8	1461.0	970.8	836.1	843.5	870.0	904.6	947.3	977.4	991.4	988.5
25°	1756.8	1450.7	899.4	800.7	807.3	825.1	849.3	881.6	903.1	910.4	905.2
27.5°	1828.2	1442.6	843.5	768.4	767.6	775.7	790.5	808.1	818.4	816.2	808.1
30°	1915.7	1434.5	802.2	739.7	729.3	728.6	735.3	745.6	752.2	738.9	732.3
32.5°	2013.7	1420.5	765.4	714.6	696.2	689.5	692.6	706.5	733.7	720.5	715.4
35°	2129.3	1404.3	728.6	687.5	673.4	661.0	663.0	693.3	775.7	766.2	761.0
37.5°	2268.3	1389.6	694.7	658.0	657.2	641.7	640.3	676.3	786.7	766.2	761.8
40°	2435.3	1386.7	664.6	625.6	637.3	631.5	626.3	648.3	725.7	683.7	675.6
42.5°	2637.1	1399.9	642.5	594.7	614.5	628.5	618.9	624.1	655.8	618.3	611.6
45°	2872.6	1435.9	626.3	567.5	590.2	626.3	615.2	610.8	616.0	595.3	590.9
47.5°	3147.1	1499.9	615.2	544.6	567.5	620.4	613.8	605.0	602.8	590.9	588.0
50°	3440.8	1586.0	608.0	524.0	546.9	610.0	613.1	600.5	596.8	591.8	590.2
52.5°	3732.2	1679.6	599.1	506.4	529.9	597.6	613.8	596.1	590.9	588.0	586.6
55°	4022.3	1776.7	582.9	491.0	517.5	582.9	613.1	590.2	584.3	584.3	584.3
57.5°	4398.3	1924.6	561.6	478.3	501.3	563.7	603.5	583.7	575.5	576.4	577.0
60°	4941.4	2172.6	538.1	464.5	479.9	541.7	588.7	572.0	562.2	565.3	566.0
62.5°	5849.0	2606.2	505.7	444.5	457.7	518.1	569.6	555.7	546.9	552.0	552.7
65°	7058.8	3131.0	462.9	419.5	435.0	491.6	545.5	536.6	526.9	539.5	538.8
67.5°	7797.1	3284.7	418.0	393.0	413.0	463.6	515.2	511.6	504.8	526.9	525.5
69°	7554.9	3006.4	392.3	376.1	397.4	444.5	496.0	494.5	489.4	510.7	509.2
70°	7178.9	2746.7	376.1	365.0	389.3	432.8	483.6	483.6	478.3	496.9	493.1
72.5°	5766.5	2037.3	338.5	337.0	361.4	400.4	449.7	453.4	450.4	457.1	453.4
75°	3385.5	1227.7	301.7	306.1	327.5	365.8	412.1	415.0	412.1	411.5	412.1
77.5°	1173.8	550.5	266.4	273.1	291.5	330.4	370.9	376.7	372.3	367.2	368.8
80°	459.3	320.2	228.2	237.7	253.2	290.7	329.7	333.5	326.8	326.1	320.2
82.5°	276.0	195.0	177.3	192.9	212.0	252.5	284.9	283.3	278.3	308.4	270.1
85°	120.0	108.2	129.5	144.9	154.6	189.2	240.7	234.1	221.5	195.0	190.6
87.5°	48.6	56.0	71.3	86.1	92.7	122.2	164.8	159.0	161.2	132.5	131.7
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)