

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: P271313

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
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-SL3-7027
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10462.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

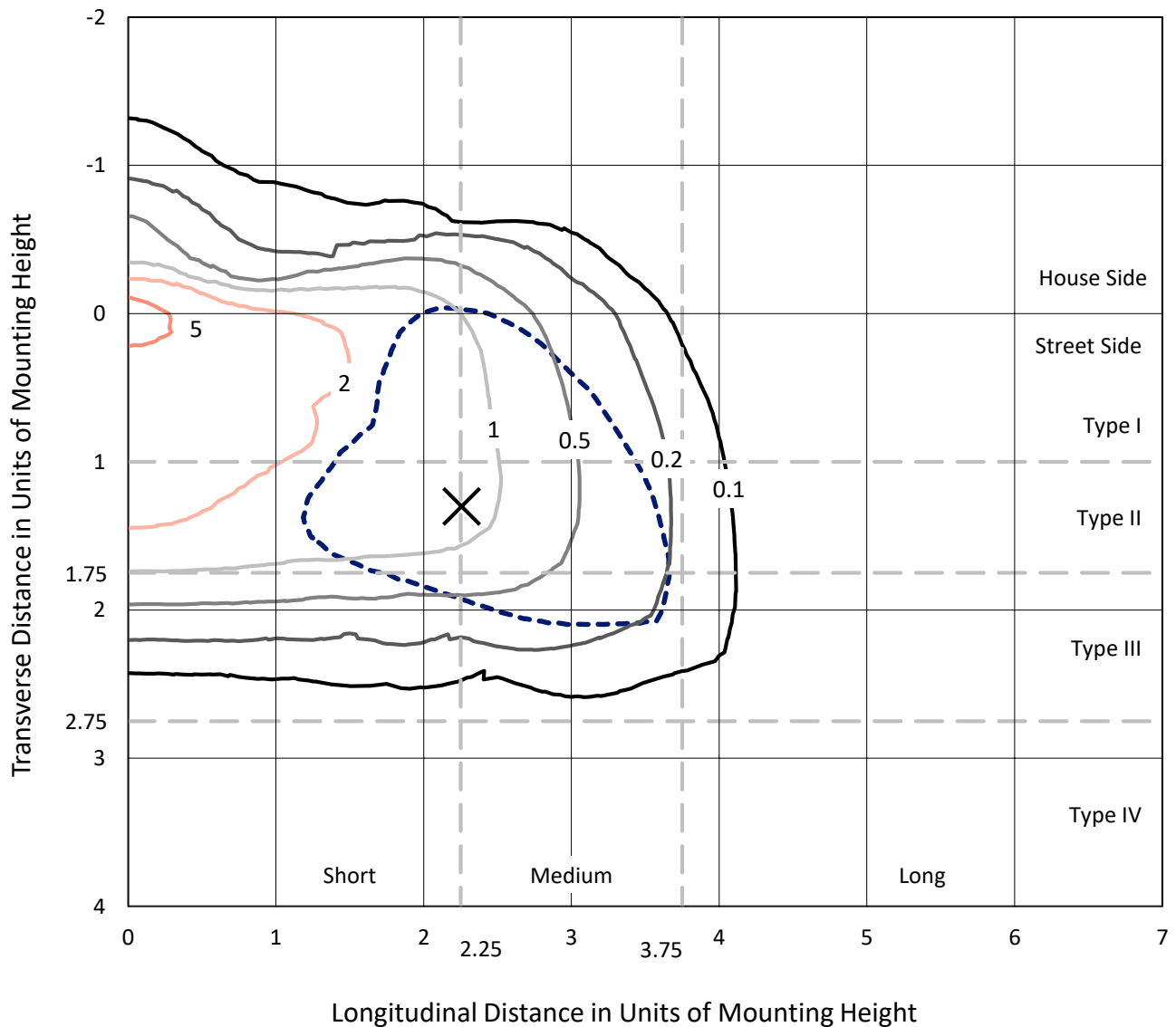
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271313
 CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027

Iso-Footcandle Lines of Horizontal Illumination

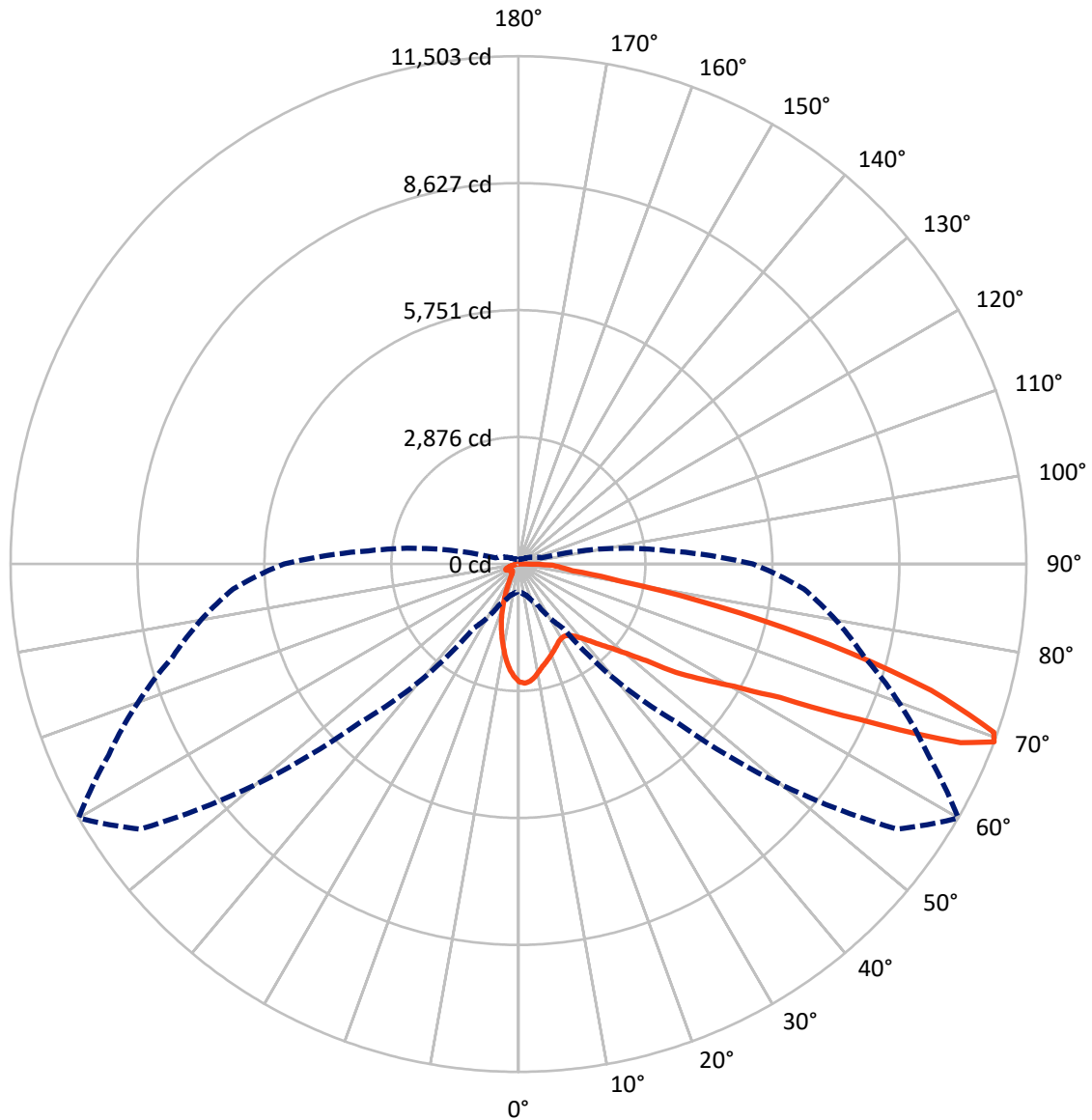
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271313
CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P271313

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.3	0.0	1492.3
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	8970.3	0.0	8970.3
	% Fixture	85.7	0.0	85.7
Total	Lumens	10462.6	0.0	10462.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	2.2
10°-20°	484.9	4.6
20°-30°	618.6	5.9
30°-40°	851.2	8.1
40°-50°	1378.8	13.2
50°-60°	2164.0	20.7
60°-70°	2885.0	27.6
70°-80°	1604.7	15.3
80°-90°	248.9	2.4
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°	10462.6	100.0
0°-180°	10462.6	100.0

Coefficient of Utilization



REPORT NUMBER: P271313

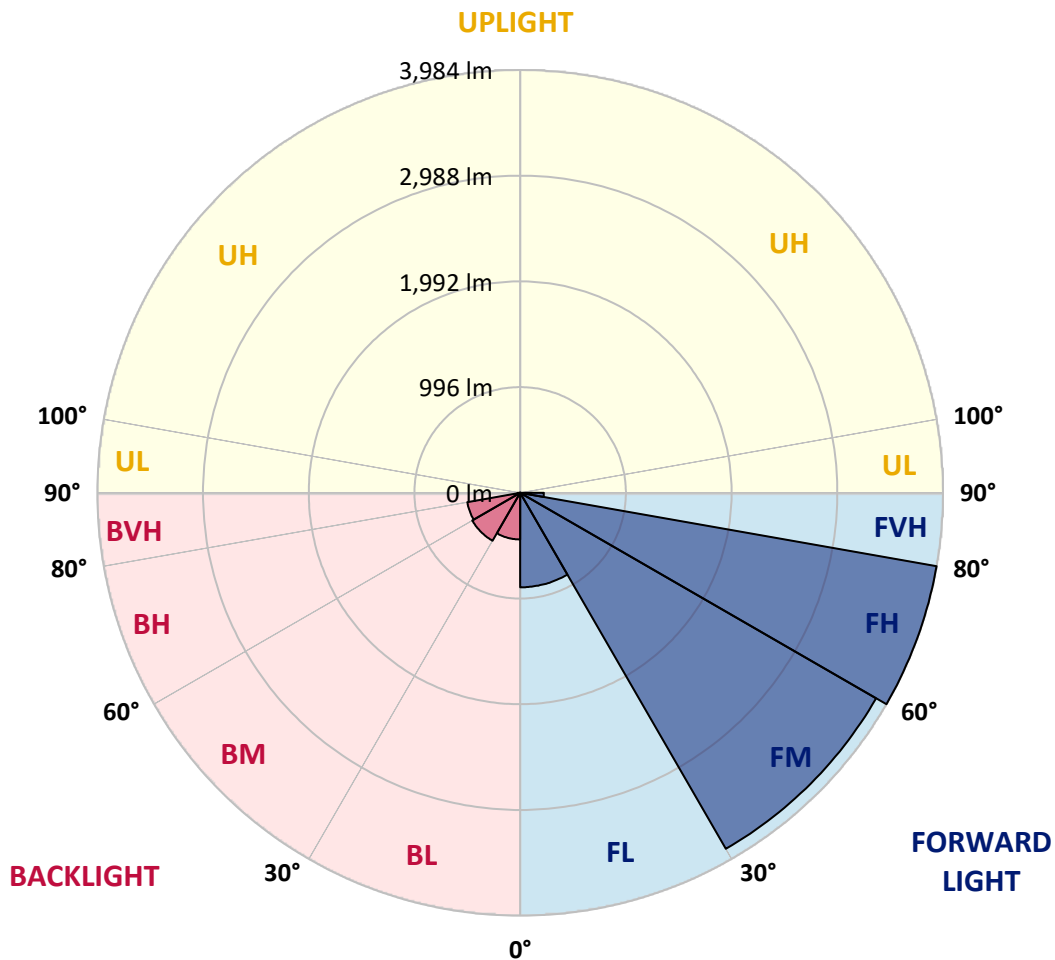
CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	890.2	8.5			
FM	(30°-60°)	3872.7	37.0			
FH	(60°-80°)	3983.7	38.1			G2/5000
FVH	(80°-90°)	223.7	2.1			G2/225
BL	(0°-30°)	439.8	4.2	B1/500		
BM	(30°-60°)	521.3	5.0	B1/1000		
BH	(60°-80°)	506.0	4.8	B2/1000		G2/1000
BVH	(80°-90°)	25.2	0.2			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 III Medium





REPORT NUMBER: P271313

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6
2.5°	2740.6	2748.1	2748.1	2742.0	2738.7	2719.2	2707.9	2699.8	2685.7	2659.5	2636.0
5°	2642.8	2656.7	2662.8	2665.5	2683.0	2676.9	2677.6	2672.3	2660.2	2632.0	2593.8
7.5°	2463.0	2465.6	2476.4	2494.5	2536.8	2566.3	2590.4	2595.2	2592.4	2571.6	2517.9
10°	2285.7	2290.5	2303.3	2334.1	2374.4	2416.6	2468.9	2490.5	2506.5	2499.9	2432.0
12.5°	2138.9	2139.6	2153.6	2189.2	2234.2	2287.2	2358.3	2391.7	2430.1	2445.5	2369.6
15°	1997.3	2006.8	2020.1	2063.0	2118.7	2185.8	2267.7	2313.9	2364.2	2408.5	2321.4
17.5°	1889.9	1897.3	1905.3	1941.0	2005.3	2089.2	2190.5	2240.2	2306.6	2374.4	2271.8
20°	1830.9	1833.6	1827.5	1844.9	1899.3	1989.9	2107.3	2167.0	2246.2	2341.5	2220.7
22.5°	1818.9	1818.9	1796.7	1793.3	1817.5	1893.9	2021.5	2094.6	2191.1	2318.6	2175.1
25°	1875.2	1871.2	1829.6	1791.3	1782.6	1821.6	1939.6	2029.5	2144.3	2317.9	2140.9
27.5°	1981.9	1976.5	1924.9	1860.4	1804.8	1787.9	1876.6	1968.5	2107.3	2340.9	2123.5
30°	2114.7	2112.8	2060.4	1979.9	1888.0	1801.5	1851.8	1936.9	2082.5	2383.1	2122.8
32.5°	2260.3	2251.0	2218.8	2138.1	2018.9	1875.9	1866.5	1938.3	2075.9	2444.7	2138.1
35°	2415.4	2408.5	2400.5	2319.3	2185.1	2007.4	1931.5	1984.5	2108.7	2530.6	2181.9
37.5°	2612.5	2605.2	2618.6	2529.9	2383.1	2179.7	2041.6	2077.2	2175.8	2655.5	2263.0
40°	2963.4	2941.9	2904.4	2768.1	2613.9	2391.2	2200.6	2206.0	2290.5	2822.6	2393.2
42.5°	3539.7	3470.6	3284.8	3034.6	2857.4	2636.6	2407.8	2382.5	2448.8	3043.3	2582.4
45°	4117.4	4039.6	3725.6	3325.0	3109.8	2900.4	2664.3	2603.2	2646.0	3300.3	2825.9
47.5°	4490.4	4452.2	4098.0	3615.6	3374.0	3187.5	2957.4	2856.7	2887.6	3591.5	3126.5
50°	4599.9	4567.0	4288.5	3842.9	3623.7	3534.4	3320.3	3186.8	3192.1	3931.5	3486.7
52.5°	4517.9	4504.6	4319.9	3984.0	3853.1	3900.0	3822.8	3637.0	3592.7	4304.6	3877.3
55°	4408.6	4413.3	4342.1	4125.5	4086.5	4240.9	4480.3	4330.8	4143.0	4693.0	4283.7
57.5°	4064.4	4067.7	4254.3	4395.1	4531.9	4718.5	4992.3	4929.2	4710.5	5112.3	4739.4
60°	3272.7	3298.8	3714.2	4339.4	5041.3	5659.9	5727.0	5618.2	5314.4	5595.5	5331.7
62.5°	2338.1	2361.6	2842.6	3767.2	4981.6	6725.3	7083.6	6651.4	6133.4	6318.0	6165.0
65°	1228.4	1224.4	1596.7	2603.2	4196.0	6972.1	9221.0	8485.7	7513.6	7311.7	6970.0
67.5°	686.3	708.6	852.8	1313.1	2734.6	6136.1	10586.3	10803.0	9432.4	8099.9	6935.3
69°	634.7	642.1	738.6	1015.1	1782.6	5062.7	10468.9	11502.7	10241.4	8103.3	6488.4
70°	616.5	624.6	712.5	935.2	1497.5	4148.3	10041.6	11421.0	10438.0	7923.5	6081.9
72.5°	552.8	563.5	648.8	840.6	1261.9	2138.1	8088.5	9775.1	9455.2	6925.2	4715.8
75°	471.7	489.8	618.7	834.6	1195.6	1359.2	5394.1	7282.7	7037.2	4952.6	2675.6
77.5°	195.2	197.3	270.4	611.1	1254.7	1300.8	2899.0	4613.2	4083.9	2171.7	805.8
80°	136.3	133.5	134.8	178.5	1012.4	1309.5	1487.5	2346.3	1823.5	572.9	377.1
82.5°	114.8	113.4	118.8	112.1	342.9	1486.1	1243.9	1223.1	858.8	308.6	179.8
85°	75.7	73.8	97.2	102.0	163.0	1180.2	1337.8	961.5	640.0	165.1	76.4
87.5°	36.9	37.5	55.7	69.1	86.5	373.6	1281.4	760.1	494.4	71.8	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271313

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6	2669.6
2.5°	2626.6	2606.5	2588.3	2565.6	2548.1	2533.4	2513.3	2512.6	2509.2	2513.8	2515.3
5°	2568.3	2534.7	2483.8	2426.7	2386.4	2333.4	2281.8	2264.4	2244.9	2242.9	2248.8
7.5°	2480.4	2427.9	2340.9	2253.6	2166.4	2077.2	1992.6	1949.7	1908.1	1895.3	1901.4
10°	2382.5	2316.0	2182.5	2040.2	1917.4	1784.7	1655.8	1572.7	1496.8	1464.5	1472.6
12.5°	2305.9	2221.4	2033.6	1849.0	1665.2	1474.7	1304.9	1140.6	1016.4	960.7	964.2
15°	2240.2	2132.1	1893.9	1648.4	1418.3	1157.3	921.8	731.3	622.6	582.3	581.1
17.5°	2169.0	2038.3	1748.5	1461.9	1163.3	840.6	617.2	504.5	461.5	448.2	448.2
20°	2093.2	1941.6	1596.1	1258.6	895.0	587.0	464.2	420.6	404.5	400.6	399.8
22.5°	2022.9	1847.0	1443.1	1041.9	647.4	445.5	395.2	378.4	375.8	379.1	379.1
25°	1967.1	1763.8	1288.2	813.9	471.0	373.1	351.5	349.5	359.6	371.7	373.6
27.5°	1925.5	1689.4	1135.2	594.4	370.3	324.6	317.3	326.1	349.5	373.6	378.4
30°	1896.7	1625.7	952.1	427.4	308.6	284.5	287.8	303.3	338.8	375.8	385.8
32.5°	1883.9	1574.0	767.5	328.2	263.7	250.3	259.0	279.2	316.1	352.9	365.0
35°	1896.1	1536.5	597.2	272.4	230.8	220.8	230.8	251.5	275.7	293.8	301.2
37.5°	1939.6	1522.9	449.5	241.6	209.3	199.2	207.2	221.4	232.1	238.9	242.3
40°	2031.5	1537.1	352.2	225.5	197.3	185.8	187.8	194.6	201.9	207.2	208.0
42.5°	2177.9	1583.4	313.2	219.4	189.9	175.1	171.8	176.4	184.5	191.9	193.2
45°	2372.3	1660.4	309.2	221.4	186.5	166.4	159.7	164.4	175.1	187.1	189.3
47.5°	2623.9	1782.6	328.2	232.1	188.6	161.7	151.6	156.3	170.4	186.5	189.3
50°	2921.8	1951.7	362.9	248.2	197.9	161.7	148.3	152.4	167.1	185.2	187.8
52.5°	3272.7	2187.2	399.1	264.3	211.3	167.8	149.6	148.9	162.4	179.1	182.4
55°	3659.9	2479.7	434.2	278.5	218.6	175.8	153.0	144.9	155.6	169.2	171.8
57.5°	4115.3	2880.2	495.1	291.9	222.7	181.7	157.1	140.9	147.0	156.3	158.3
60°	4733.3	3468.6	613.9	314.6	230.1	184.5	157.7	136.8	136.3	142.9	143.5
62.5°	5539.0	4157.6	727.3	341.4	244.9	185.2	155.0	134.1	127.5	129.4	129.4
65°	6112.0	4411.2	694.4	364.4	258.4	184.5	152.4	132.2	120.7	117.4	117.4
67.5°	5786.0	3896.7	589.7	370.3	259.6	177.1	146.2	127.5	114.8	106.7	106.7
69°	5306.9	3415.6	541.4	359.6	248.9	168.4	139.5	122.8	110.8	101.2	101.2
70°	4916.5	3051.4	511.9	346.8	236.2	161.1	133.5	118.0	106.7	98.6	97.9
72.5°	3670.6	2036.2	437.5	299.2	193.9	136.3	116.7	105.3	95.9	90.5	90.5
75°	1936.9	1020.5	358.2	244.2	149.6	108.7	95.9	88.6	83.3	82.6	81.8
77.5°	634.7	461.5	257.6	183.9	110.0	84.5	76.4	71.8	71.1	73.8	73.8
80°	342.9	275.7	165.6	124.1	76.4	63.2	59.1	58.4	60.4	64.4	64.4
82.5°	166.4	136.3	98.6	76.4	52.3	46.4	46.4	47.0	49.6	54.3	54.3
85°	71.8	64.4	57.0	42.8	32.2	28.8	32.9	36.2	38.3	41.6	42.8
87.5°	34.2	30.3	26.2	16.8	14.2	14.7	17.4	21.5	25.5	28.1	28.8
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)