

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: P198873

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7050-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11230 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - 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

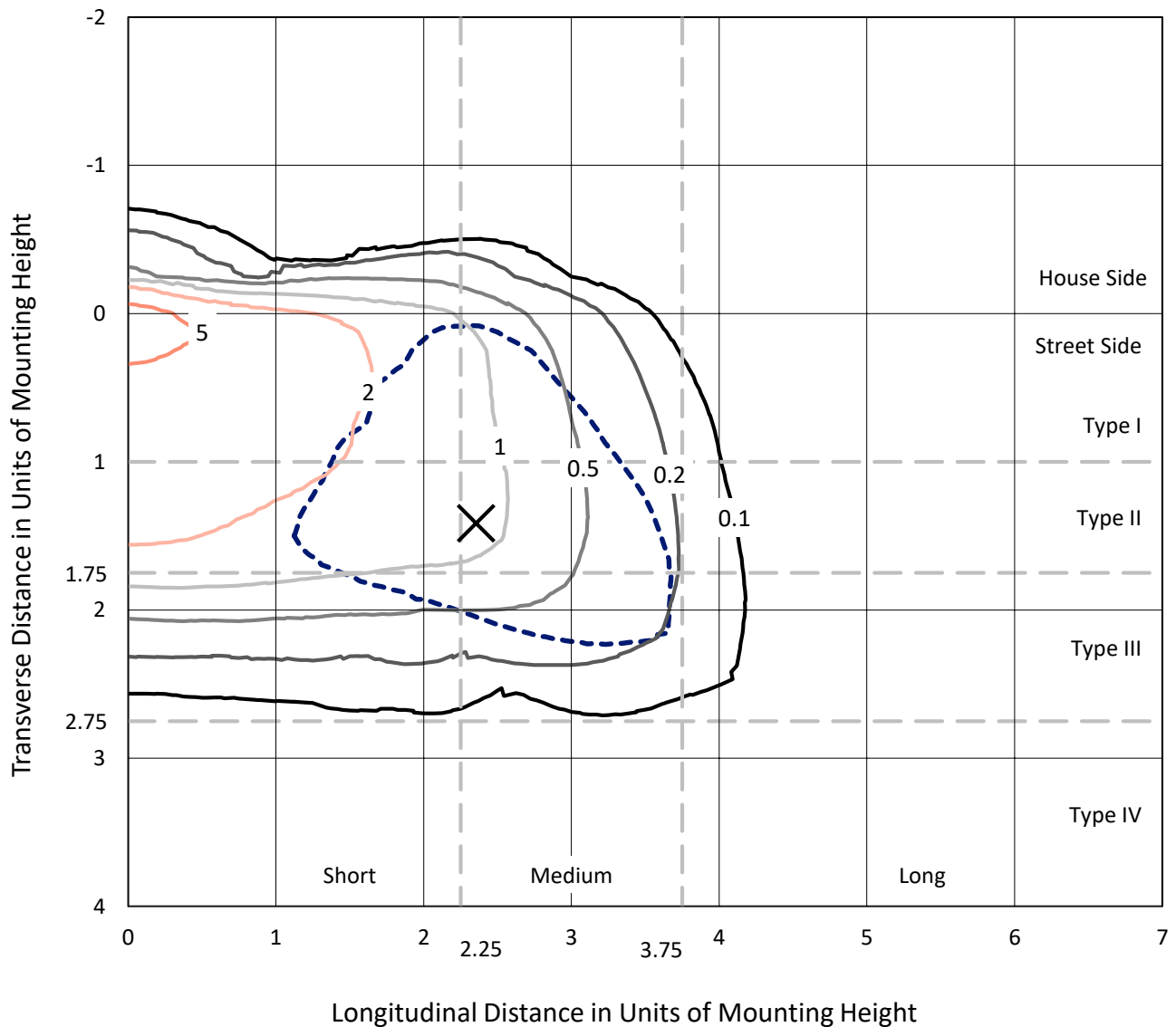


REPORT NUMBER: P198873

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7050-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

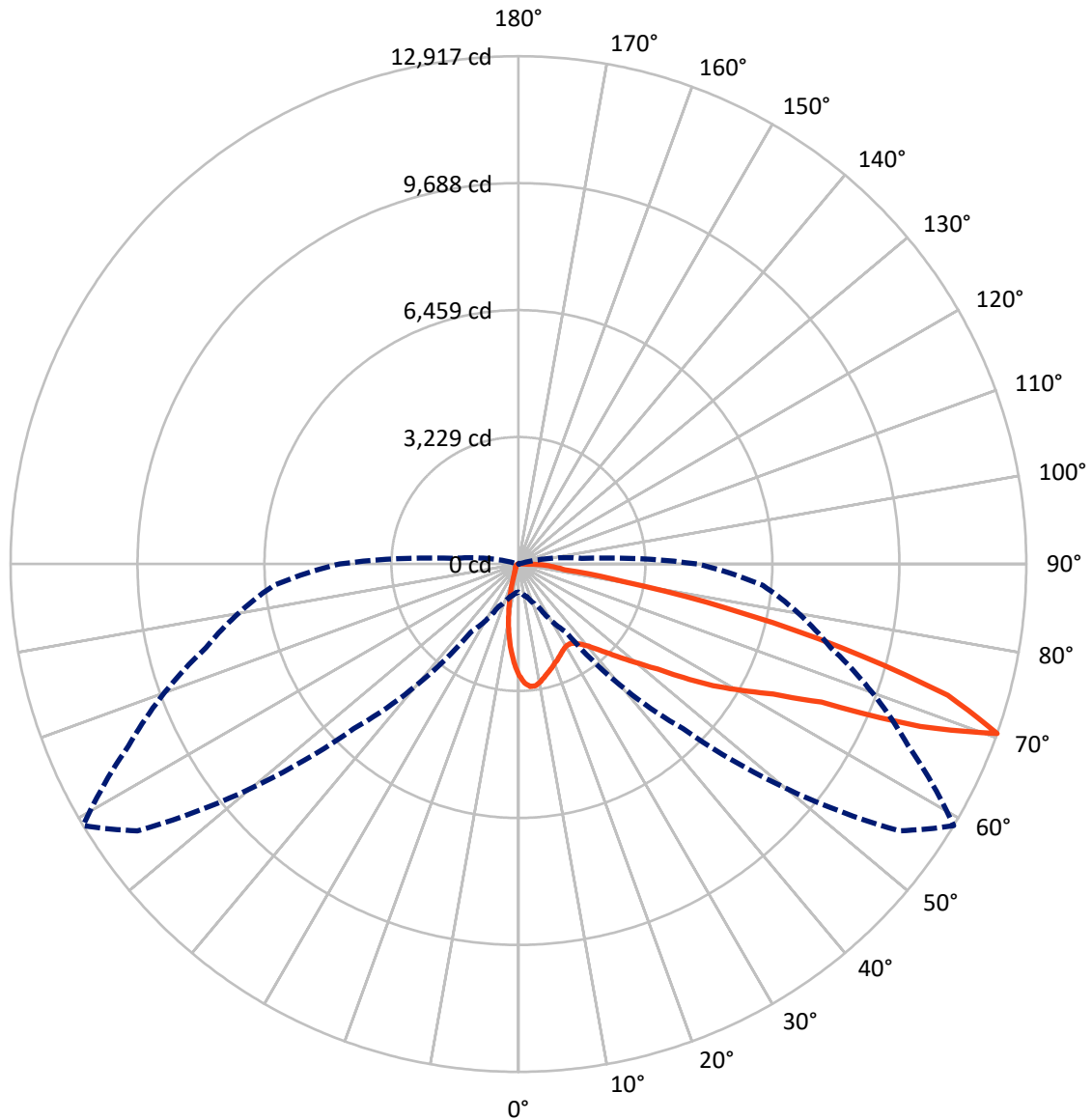


Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P198873

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7050-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P198873

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7050-1200-HSS

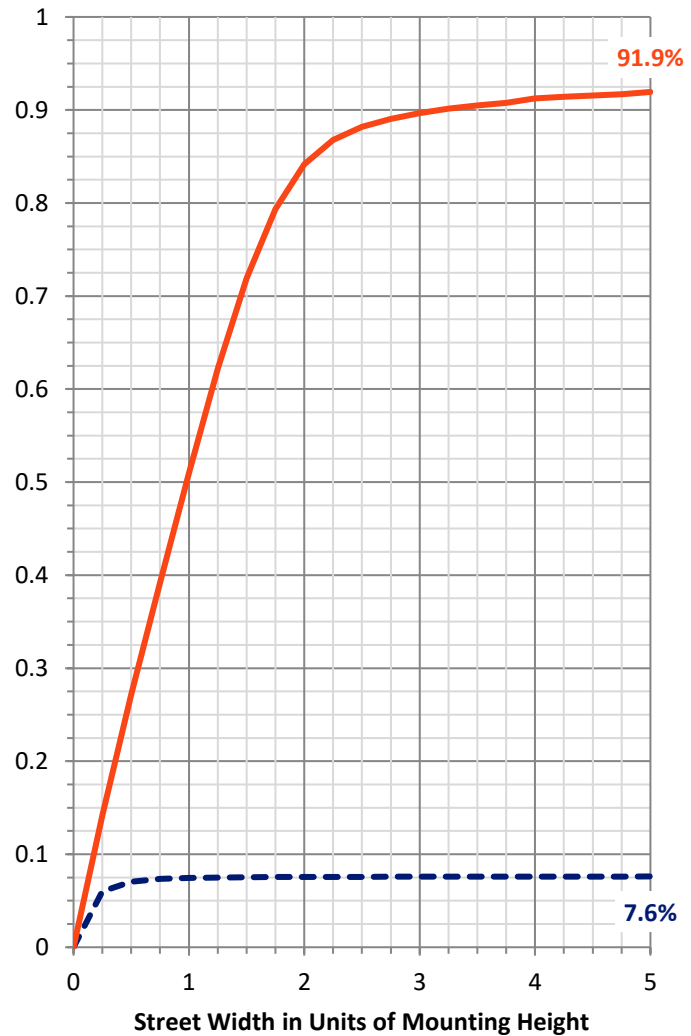
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.3	0.0	863.3
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	10366.7	0.0	10366.7
	% Fixture	92.3	0.0	92.3
Total	Lumens	11230.0	0.0	11230.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	2.1
10°-20°	489.8	4.4
20°-30°	663.0	5.9
30°-40°	956.8	8.5
40°-50°	1589.0	14.1
50°-60°	2430.5	21.6
60°-70°	3023.0	26.9
70°-80°	1671.1	14.9
80°-90°	173.3	1.5
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°	11230.0	100.0
0°-180°	11230.0	100.0



REPORT NUMBER: P198873

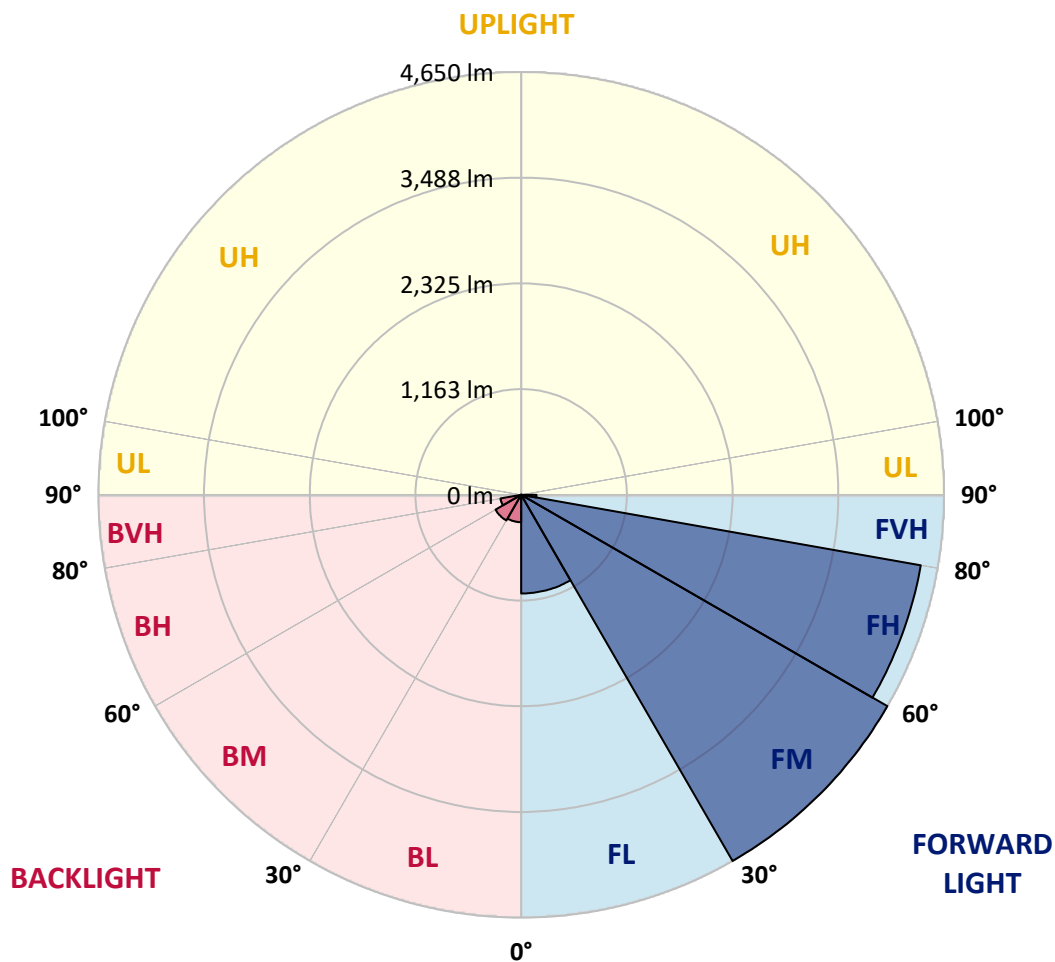
CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7050-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.4	9.7			
FM	(30°-60°)	4650.5	41.4			
FH	(60°-80°)	4462.6	39.7			G2/5000
FVH	(80°-90°)	168.3	1.5			G2/225
BL	(0°-30°)	300.8	2.7	B1/500		
BM	(30°-60°)	325.9	2.9	B1/1000		
BH	(60°-80°)	231.6	2.1	B1/500		G1/500
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P198873

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7050-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7
2.5°	3209.9	3204.8	3183.6	3179.4	3155.7	3108.2	3053.1	3031.1	2986.2	2915.1	2836.3
5°	3263.2	3265.8	3267.5	3258.2	3254.8	3215.8	3154.8	3128.5	3068.4	2951.5	2807.5
7.5°	3063.3	3070.1	3091.3	3100.6	3141.3	3156.5	3143.8	3126.8	3079.4	2941.3	2738.9
10°	2852.4	2865.1	2888.0	2903.2	2953.2	2993.8	3045.5	3049.8	3039.6	2907.4	2661.8
12.5°	2671.1	2682.9	2708.4	2738.9	2789.7	2842.2	2919.3	2946.4	2980.3	2885.4	2606.7
15°	2515.2	2518.6	2543.2	2581.3	2648.2	2720.2	2811.7	2851.5	2917.6	2876.9	2564.3
17.5°	2378.8	2379.7	2395.8	2430.5	2511.8	2606.7	2713.4	2766.0	2849.8	2865.1	2527.1
20°	2289.0	2288.2	2289.0	2307.6	2379.7	2492.3	2621.9	2677.0	2784.6	2850.7	2488.9
22.5°	2258.5	2254.3	2234.8	2228.0	2273.8	2372.9	2527.9	2599.9	2726.1	2846.4	2461.0
25°	2295.8	2293.2	2251.7	2212.8	2217.0	2278.8	2432.2	2520.3	2680.4	2861.7	2454.2
27.5°	2416.1	2411.0	2347.5	2271.2	2222.9	2233.9	2361.0	2453.4	2644.0	2899.0	2463.5
30°	2573.7	2574.5	2506.7	2414.4	2300.9	2238.2	2322.9	2410.2	2619.4	2954.9	2483.9
32.5°	2749.0	2748.2	2699.9	2593.1	2448.3	2316.1	2339.8	2413.5	2622.8	3037.0	2522.8
35°	2930.3	2921.0	2904.9	2810.9	2641.4	2452.5	2416.9	2471.2	2658.4	3145.5	2588.9
37.5°	3139.6	3136.2	3152.3	3053.1	2880.3	2653.3	2552.5	2588.9	2748.2	3305.6	2695.6
40°	3472.5	3453.9	3461.5	3326.8	3149.7	2923.5	2742.2	2751.6	2891.3	3517.4	2864.2
42.5°	4107.0	4031.6	3890.1	3637.7	3446.2	3223.4	2990.5	2974.4	3093.8	3774.1	3086.2
45°	4865.2	4778.8	4422.1	3980.8	3742.7	3545.3	3297.1	3253.9	3342.9	4079.9	3372.5
47.5°	5498.0	5404.8	4932.1	4339.1	4044.3	3877.4	3636.8	3586.0	3641.1	4434.9	3716.5
50°	5714.1	5662.4	5247.3	4637.3	4348.4	4250.2	4063.0	3978.2	3991.8	4817.8	4118.0
52.5°	5614.9	5597.2	5319.3	4841.5	4629.7	4661.9	4529.7	4440.8	4425.5	5236.3	4561.9
55°	5405.7	5397.2	5261.7	4955.0	4877.9	5038.9	5184.6	5107.5	4963.5	5681.0	4928.7
57.5°	5106.6	5138.8	5236.3	5173.6	5182.9	5437.0	5792.8	5832.7	5617.5	6035.1	5200.7
60°	4307.8	4394.2	4840.6	5408.2	5842.8	6099.5	6444.3	6518.9	6171.5	6277.4	5515.0
62.5°	3184.5	3308.1	3944.4	4987.2	6206.3	7359.2	7310.9	7277.9	6700.1	6601.9	6086.8
65°	1870.5	2015.4	2553.3	3896.9	5658.1	8169.1	8929.0	8471.5	7505.8	7276.2	6997.5
67.5°	931.9	932.7	1175.9	2056.9	4181.6	7604.1	11290.9	11026.6	9218.7	8269.9	7356.7
70°	716.7	736.2	870.0	1195.3	2114.5	5922.5	11832.2	12917.4	10940.2	8225.9	6241.8
72.5°	607.4	620.1	774.3	1040.3	1580.8	3251.4	10242.9	11418.0	10439.5	6950.1	4600.9
75°	437.1	447.3	685.3	943.7	1455.4	1613.0	7026.3	8468.2	7832.8	4888.9	2532.1
77.5°	108.4	107.6	238.9	765.8	1302.1	1343.6	4031.6	5430.3	4494.2	2001.8	650.6
80°	48.3	46.6	54.2	161.0	1211.4	1268.2	1773.1	2742.2	1724.0	324.5	199.1
82.5°	33.9	32.2	33.9	59.3	404.9	1176.7	1071.7	1188.6	631.1	111.0	84.7
85°	11.0	10.2	18.6	50.0	113.5	678.6	1045.4	887.8	469.3	47.4	56.8
87.5°	1.7	1.7	6.8	27.1	33.0	226.2	613.3	615.0	210.9	28.0	25.4
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: P198873

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7050-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7
2.5°	2796.5	2746.5	2676.2	2605.8	2542.3	2477.1	2424.6	2400.0	2389.0	2373.7	2340.7
5°	2732.1	2641.4	2487.2	2335.6	2194.1	2058.6	1942.5	1876.4	1805.3	1801.9	1767.2
7.5°	2628.7	2500.0	2256.8	2021.3	1805.3	1598.6	1420.7	1305.5	1226.7	1177.5	1143.7
10°	2513.5	2348.3	2026.4	1695.2	1401.2	1125.0	896.3	747.2	656.5	610.8	584.5
12.5°	2422.0	2214.5	1799.4	1382.6	1014.0	697.2	484.6	376.1	327.8	309.2	300.7
15°	2343.2	2091.6	1586.7	1103.0	676.9	400.7	280.4	244.8	237.2	237.2	236.4
17.5°	2263.6	1973.0	1380.0	828.5	426.1	262.6	221.1	216.0	216.9	219.4	219.4
20°	2188.2	1860.4	1180.9	590.5	279.6	210.1	200.8	199.1	201.6	205.0	204.2
22.5°	2127.2	1761.2	994.6	405.8	215.2	190.6	184.7	182.1	183.8	186.4	185.5
25°	2084.0	1676.5	823.4	282.9	187.2	173.7	166.9	163.5	161.8	163.5	162.7
27.5°	2057.7	1605.4	662.5	212.6	167.7	156.7	148.3	141.5	137.2	137.2	135.5
30°	2040.8	1538.4	519.3	176.2	151.6	139.8	127.9	118.6	111.8	110.1	109.3
32.5°	2039.9	1480.8	388.0	155.9	136.4	122.8	108.4	96.6	89.0	87.3	86.4
35°	2061.1	1434.2	285.5	140.6	122.8	106.7	90.6	77.9	71.2	71.2	70.3
37.5°	2116.2	1407.1	216.0	128.8	111.8	93.2	76.2	64.4	58.5	60.1	60.1
40°	2218.7	1402.0	176.2	119.4	102.5	81.3	61.8	52.5	50.0	52.5	52.5
42.5°	2375.4	1429.2	156.7	112.7	94.0	69.5	51.7	44.9	44.1	46.6	46.6
45°	2579.6	1482.5	145.7	106.7	84.7	57.6	43.2	39.0	38.1	41.5	41.5
47.5°	2827.0	1554.5	135.5	100.0	75.4	47.4	36.4	33.0	33.0	36.4	37.3
50°	3120.1	1652.0	125.4	93.2	67.8	39.8	30.5	28.0	28.8	32.2	33.0
52.5°	3457.2	1771.4	116.1	87.3	59.3	32.2	25.4	23.7	24.6	28.0	28.8
55°	3747.8	1875.6	105.0	81.3	48.3	26.3	21.2	20.3	21.2	25.4	25.4
57.5°	4001.1	1975.6	94.9	72.0	38.1	21.2	16.9	16.9	18.6	22.9	23.7
60°	4337.4	2133.1	86.4	61.0	28.8	16.1	13.6	14.4	16.9	20.3	21.2
62.5°	4933.0	2400.8	75.4	50.8	21.2	12.7	11.0	11.9	15.2	19.5	20.3
65°	5678.5	2654.1	62.7	42.4	16.1	9.3	8.5	11.0	15.2	19.5	20.3
67.5°	5602.2	2308.5	49.1	33.9	11.9	7.6	6.8	10.2	14.4	19.5	20.3
70°	4543.3	1618.1	36.4	22.9	9.3	6.8	6.8	10.2	14.4	18.6	19.5
72.5°	3151.4	900.5	28.0	15.2	8.5	6.8	5.9	9.3	13.6	18.6	19.5
75°	1499.5	276.2	22.0	11.0	7.6	5.9	5.1	9.3	13.6	18.6	19.5
77.5°	288.0	70.3	17.8	9.3	6.8	5.9	5.1	8.5	13.6	17.8	18.6
80°	97.4	31.3	14.4	8.5	6.8	5.9	5.1	8.5	12.7	16.9	17.8
82.5°	53.4	17.8	12.7	7.6	6.8	5.1	4.2	7.6	11.9	16.9	17.8
85°	41.5	12.7	10.2	7.6	6.8	5.1	4.2	7.6	11.9	16.1	16.9
87.5°	21.2	9.3	8.5	7.6	6.8	5.1	4.2	6.8	11.0	15.2	16.9
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)