

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: P198553

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198553
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-SL3-7030-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 9940.9 lumens
Efficiency: N/A
Efficacy: 77.7 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

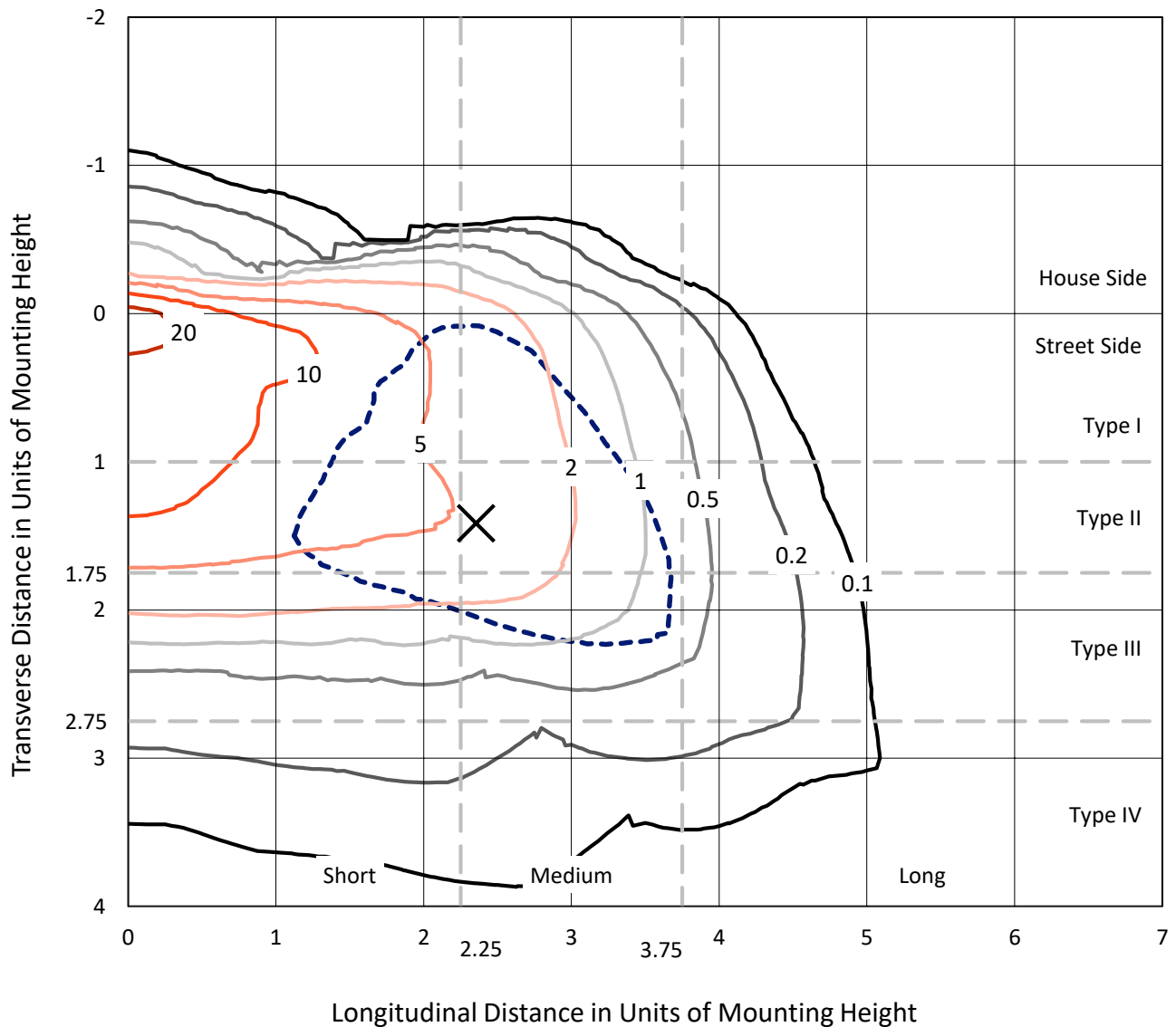


REPORT NUMBER: P198553

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

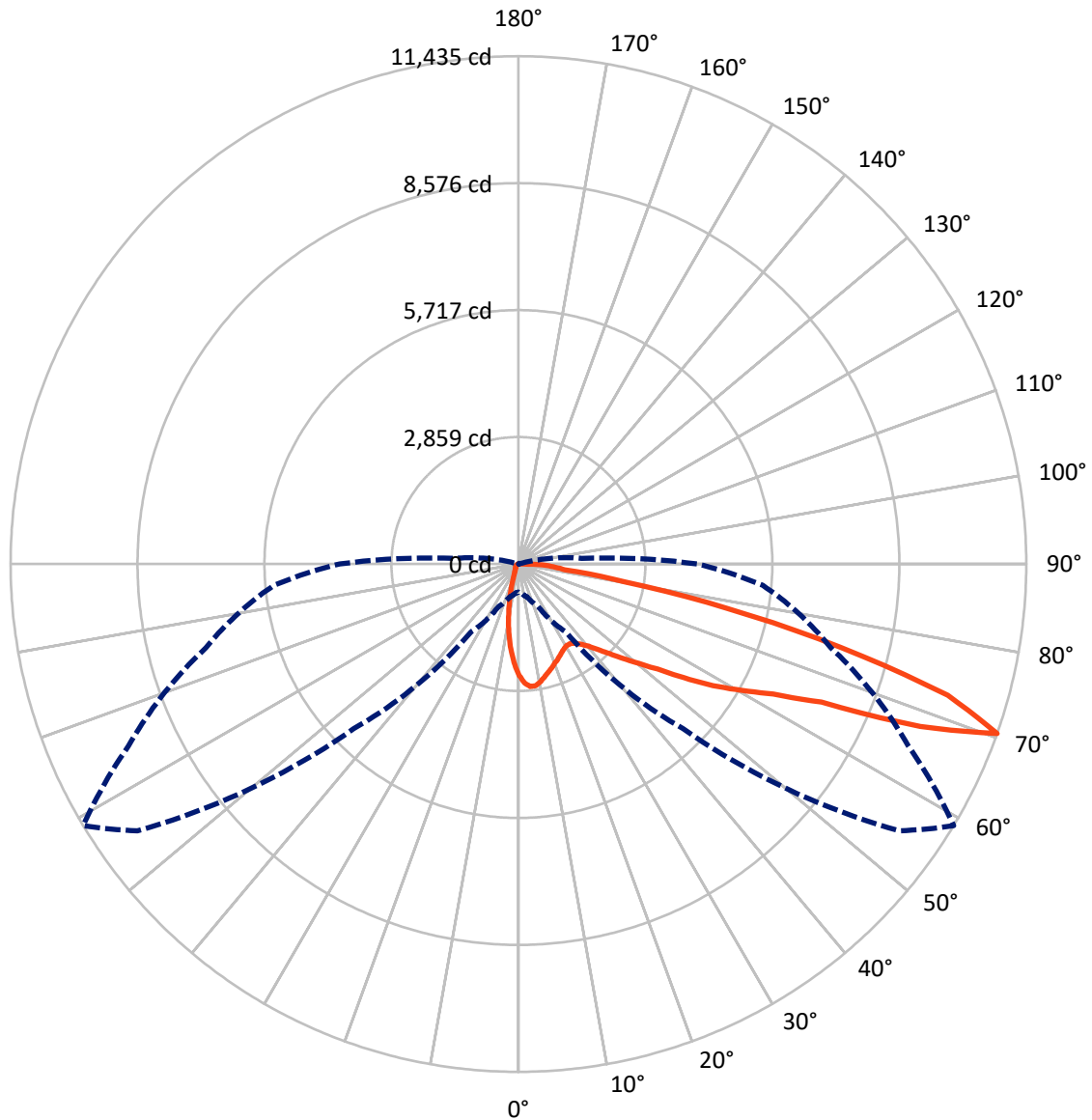


Based on 10 foot mounting height. Maximum calculated value = 26.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P198553

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7030-1200-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P198553

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7030-1200-HSS

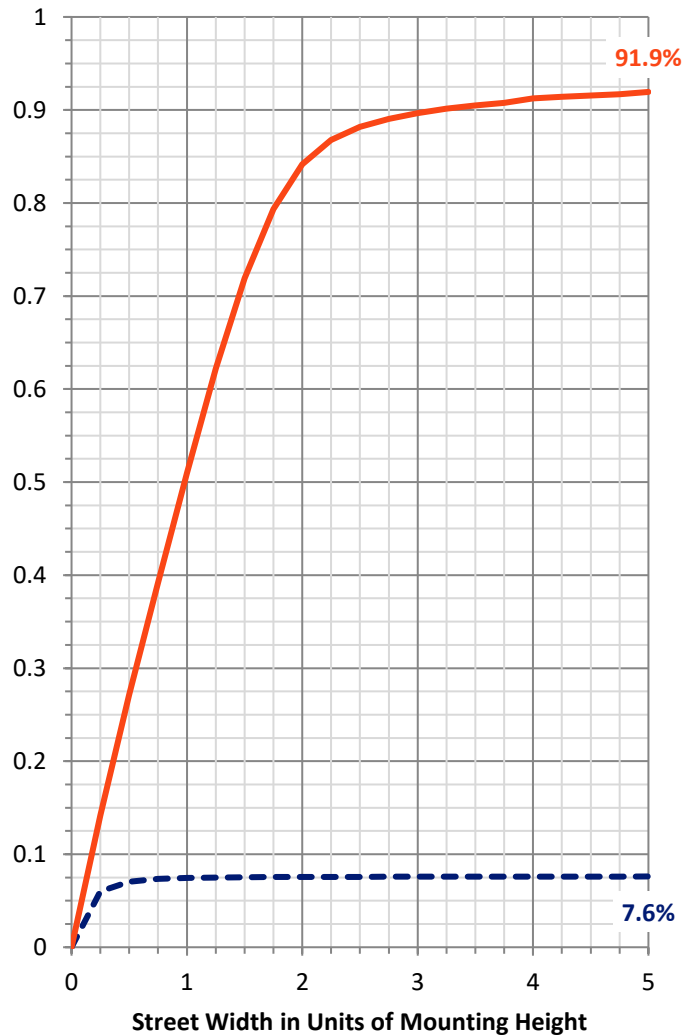
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.1	0.0	764.1
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	9176.8	0.0	9176.8
	% Fixture	92.3	0.0	92.3
Total	Lumens	9940.9	0.0	9940.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	2.1
10°-20°	433.5	4.4
20°-30°	586.9	5.9
30°-40°	847.0	8.5
40°-50°	1406.6	14.1
50°-60°	2151.6	21.6
60°-70°	2676.0	26.9
70°-80°	1479.3	14.9
80°-90°	153.4	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°	9940.9	100.0
0°-180°	9940.9	100.0

Coefficient of Utilization



REPORT NUMBER: P198553

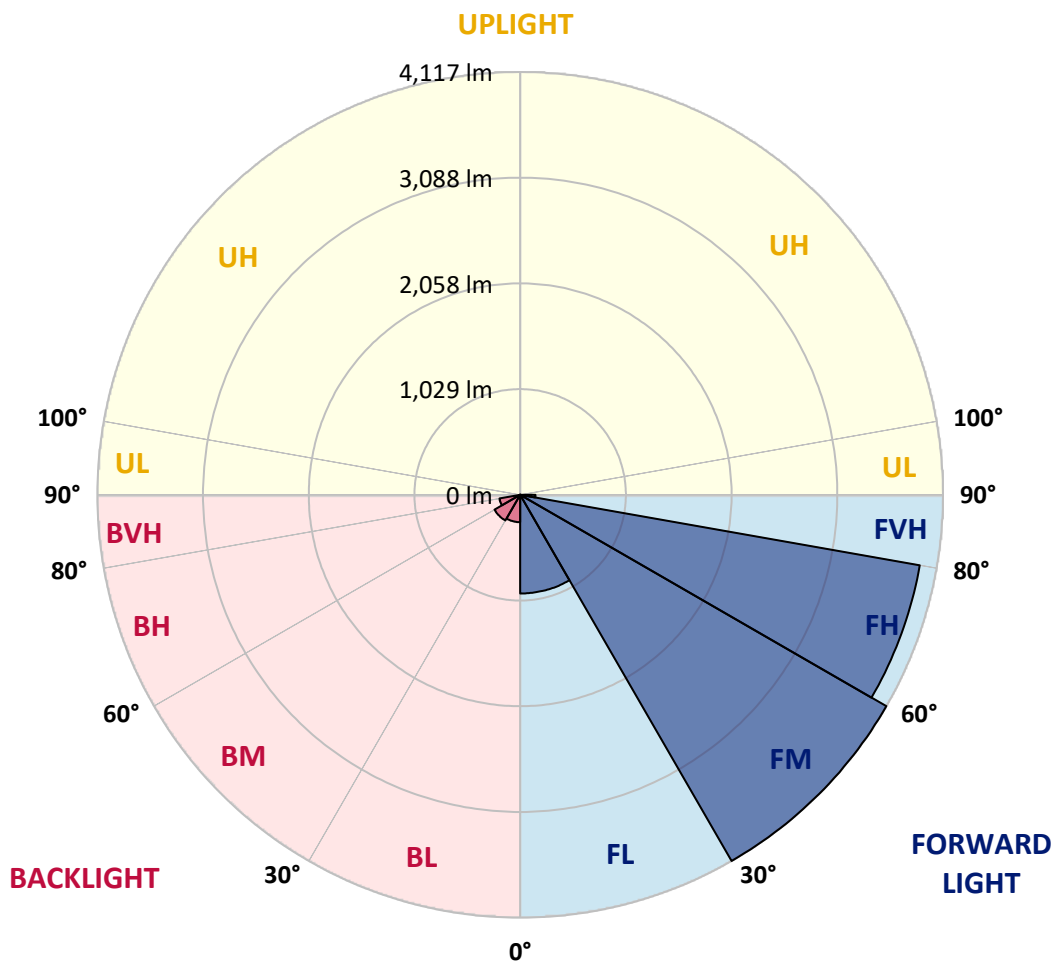
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	960.8	9.7			
FM	(30°-60°)	4116.7	41.4			
FH	(60°-80°)	3950.3	39.7			G2/5000
FVH	(80°-90°)	149.0	1.5			G2/225
BL	(0°-30°)	266.3	2.7	B1/500		
BM	(30°-60°)	288.4	2.9	B1/1000		
BH	(60°-80°)	205.0	2.1	B1/500		G1/500
BVH	(80°-90°)	4.4	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: P198553

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	2841.4	2836.9	2818.2	2814.4	2793.4	2751.4	2702.7	2683.2	2643.5	2580.5	2510.7
5°	2888.7	2890.9	2892.4	2884.2	2881.2	2846.7	2792.7	2769.4	2716.2	2612.7	2485.2
7.5°	2711.7	2717.7	2736.4	2744.7	2780.7	2794.2	2782.9	2767.9	2725.9	2603.7	2424.5
10°	2525.0	2536.2	2556.5	2570.0	2614.2	2650.2	2696.0	2699.7	2690.7	2573.7	2356.2
12.5°	2364.5	2375.0	2397.5	2424.5	2469.5	2516.0	2584.2	2608.2	2638.2	2554.2	2307.5
15°	2226.5	2229.5	2251.3	2285.0	2344.2	2408.0	2489.0	2524.2	2582.7	2546.7	2270.0
17.5°	2105.8	2106.5	2120.8	2151.5	2223.5	2307.5	2402.0	2448.5	2522.7	2536.2	2237.0
20°	2026.3	2025.5	2026.3	2042.8	2106.5	2206.3	2321.0	2369.7	2465.0	2523.5	2203.3
22.5°	1999.3	1995.5	1978.3	1972.3	2012.8	2100.5	2237.8	2301.5	2413.2	2519.7	2178.5
25°	2032.3	2030.0	1993.3	1958.8	1962.5	2017.3	2153.0	2231.0	2372.7	2533.2	2172.5
27.5°	2138.8	2134.3	2078.0	2010.5	1967.8	1977.5	2090.0	2171.8	2340.5	2566.2	2180.8
30°	2278.2	2279.0	2219.0	2137.3	2036.8	1981.3	2056.3	2133.5	2318.7	2615.7	2198.8
32.5°	2433.5	2432.7	2390.0	2295.5	2167.3	2050.3	2071.3	2136.5	2321.7	2688.5	2233.3
35°	2594.0	2585.7	2571.5	2488.2	2338.2	2171.0	2139.5	2187.5	2353.2	2784.4	2291.7
37.5°	2779.2	2776.2	2790.4	2702.7	2549.7	2348.7	2259.5	2291.7	2432.7	2926.2	2386.2
40°	3073.9	3057.4	3064.2	2944.9	2788.2	2588.0	2427.5	2435.7	2559.5	3113.7	2535.5
42.5°	3635.6	3568.9	3443.6	3220.1	3050.7	2853.4	2647.2	2633.0	2738.7	3340.9	2731.9
45°	4306.8	4230.3	3914.6	3523.9	3313.1	3138.4	2918.7	2880.4	2959.2	3611.6	2985.4
47.5°	4867.0	4784.5	4366.0	3841.1	3580.1	3432.4	3219.4	3174.4	3223.1	3925.8	3289.9
50°	5058.2	5012.4	4645.0	4105.0	3849.3	3762.3	3596.6	3521.6	3533.6	4264.8	3645.3
52.5°	4970.4	4954.7	4708.7	4285.8	4098.3	4126.8	4009.8	3931.1	3917.6	4635.2	4038.3
55°	4785.2	4777.7	4657.7	4386.3	4318.0	4460.5	4589.5	4521.2	4393.8	5028.9	4363.0
57.5°	4520.5	4549.0	4635.2	4579.7	4588.0	4813.0	5127.9	5163.2	4972.7	5342.4	4603.7
60°	3813.3	3889.8	4285.0	4787.5	5172.2	5399.4	5704.6	5770.6	5463.1	5556.9	4882.0
62.5°	2818.9	2928.4	3491.6	4414.8	5493.9	6514.5	6471.8	6442.5	5931.1	5844.1	5388.2
65°	1655.8	1784.1	2260.2	3449.6	5008.7	7231.4	7904.1	7499.2	6644.3	6441.0	6194.3
67.5°	824.9	825.7	1040.9	1820.8	3701.6	6731.3	9994.9	9760.9	8160.6	7320.7	6512.3
70°	634.4	651.7	770.2	1058.1	1871.8	5242.7	10474.1	11434.7	9684.4	7281.7	5525.4
72.5°	537.7	548.9	685.4	920.9	1399.3	2878.2	9067.2	10107.4	9241.2	6152.3	4072.8
75°	387.0	396.0	606.7	835.4	1288.4	1427.8	6219.8	7496.2	6933.7	4327.8	2241.5
77.5°	96.0	95.2	211.5	677.9	1152.6	1189.4	3568.9	4807.0	3978.3	1772.1	575.9
80°	42.7	41.2	48.0	142.5	1072.4	1122.6	1569.6	2427.5	1526.1	287.2	176.2
82.5°	30.0	28.5	30.0	52.5	358.5	1041.6	948.6	1052.1	558.7	98.2	75.0
85°	9.7	9.0	16.5	44.2	100.5	600.7	925.4	785.9	415.5	42.0	50.2
87.5°	1.5	1.5	6.0	24.0	29.2	200.2	542.9	544.4	186.7	24.7	22.5
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: P198553

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	2475.5	2431.2	2369.0	2306.7	2250.5	2192.8	2146.3	2124.5	2114.8	2101.3	2072.0
5°	2418.5	2338.2	2201.8	2067.5	1942.3	1822.3	1719.6	1661.1	1598.1	1595.1	1564.3
7.5°	2327.0	2213.0	1997.8	1789.3	1598.1	1415.1	1257.6	1155.6	1085.9	1042.4	1012.4
10°	2225.0	2078.8	1793.8	1500.6	1240.4	995.9	793.4	661.4	581.2	540.7	517.4
12.5°	2144.0	1960.3	1592.8	1223.9	897.7	617.2	429.0	333.0	290.2	273.7	266.2
15°	2074.3	1851.5	1404.6	976.4	599.2	354.7	248.2	216.7	210.0	210.0	209.2
17.5°	2003.8	1746.6	1221.6	733.4	377.2	232.5	195.7	191.2	192.0	194.2	194.2
20°	1937.0	1646.8	1045.4	522.7	247.5	186.0	177.7	176.2	178.5	181.5	180.7
22.5°	1883.0	1559.1	880.4	359.2	190.5	168.7	163.5	161.2	162.7	165.0	164.2
25°	1844.8	1484.1	728.9	250.5	165.7	153.7	147.7	144.7	143.2	144.7	144.0
27.5°	1821.5	1421.1	586.4	188.2	148.5	138.7	131.2	125.2	121.5	121.5	120.0
30°	1806.5	1361.8	459.7	156.0	134.2	123.7	113.2	105.0	99.0	97.5	96.7
32.5°	1805.8	1310.9	343.5	138.0	120.7	108.7	96.0	85.5	78.7	77.2	76.5
35°	1824.5	1269.6	252.7	124.5	108.7	94.5	80.2	69.0	63.0	63.0	62.2
37.5°	1873.3	1245.6	191.2	114.0	99.0	82.5	67.5	57.0	51.7	53.2	53.2
40°	1964.0	1241.1	156.0	105.7	90.7	72.0	54.7	46.5	44.2	46.5	46.5
42.5°	2102.8	1265.1	138.7	99.7	83.2	61.5	45.7	39.7	39.0	41.2	41.2
45°	2283.5	1312.4	129.0	94.5	75.0	51.0	38.2	34.5	33.7	36.7	36.7
47.5°	2502.5	1376.1	120.0	88.5	66.7	42.0	32.2	29.2	29.2	32.2	33.0
50°	2761.9	1462.3	111.0	82.5	60.0	35.2	27.0	24.7	25.5	28.5	29.2
52.5°	3060.4	1568.1	102.7	77.2	52.5	28.5	22.5	21.0	21.7	24.7	25.5
55°	3317.6	1660.3	93.0	72.0	42.7	23.2	18.7	18.0	18.7	22.5	22.5
57.5°	3541.9	1748.8	84.0	63.7	33.7	18.7	15.0	15.0	16.5	20.2	21.0
60°	3839.6	1888.3	76.5	54.0	25.5	14.2	12.0	12.7	15.0	18.0	18.7
62.5°	4366.8	2125.3	66.7	45.0	18.7	11.2	9.7	10.5	13.5	17.2	18.0
65°	5026.7	2349.5	55.5	37.5	14.2	8.2	7.5	9.7	13.5	17.2	18.0
67.5°	4959.2	2043.5	43.5	30.0	10.5	6.7	6.0	9.0	12.7	17.2	18.0
70°	4021.8	1432.3	32.2	20.2	8.2	6.0	6.0	9.0	12.7	16.5	17.2
72.5°	2789.7	797.2	24.7	13.5	7.5	6.0	5.2	8.2	12.0	16.5	17.2
75°	1327.4	244.5	19.5	9.7	6.7	5.2	4.5	8.2	12.0	16.5	17.2
77.5°	255.0	62.2	15.7	8.2	6.0	5.2	4.5	7.5	12.0	15.7	16.5
80°	86.2	27.7	12.7	7.5	6.0	5.2	4.5	7.5	11.2	15.0	15.7
82.5°	47.2	15.7	11.2	6.7	6.0	4.5	3.7	6.7	10.5	15.0	15.7
85°	36.7	11.2	9.0	6.7	6.0	4.5	3.7	6.7	10.5	14.2	15.0
87.5°	18.7	8.2	7.5	6.7	6.0	4.5	3.7	6.0	9.7	13.5	15.0
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)