

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: P198675

Luminaire Tested: **XNV2-AF-02-LED-U-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24160)
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-AFL-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8327.8 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

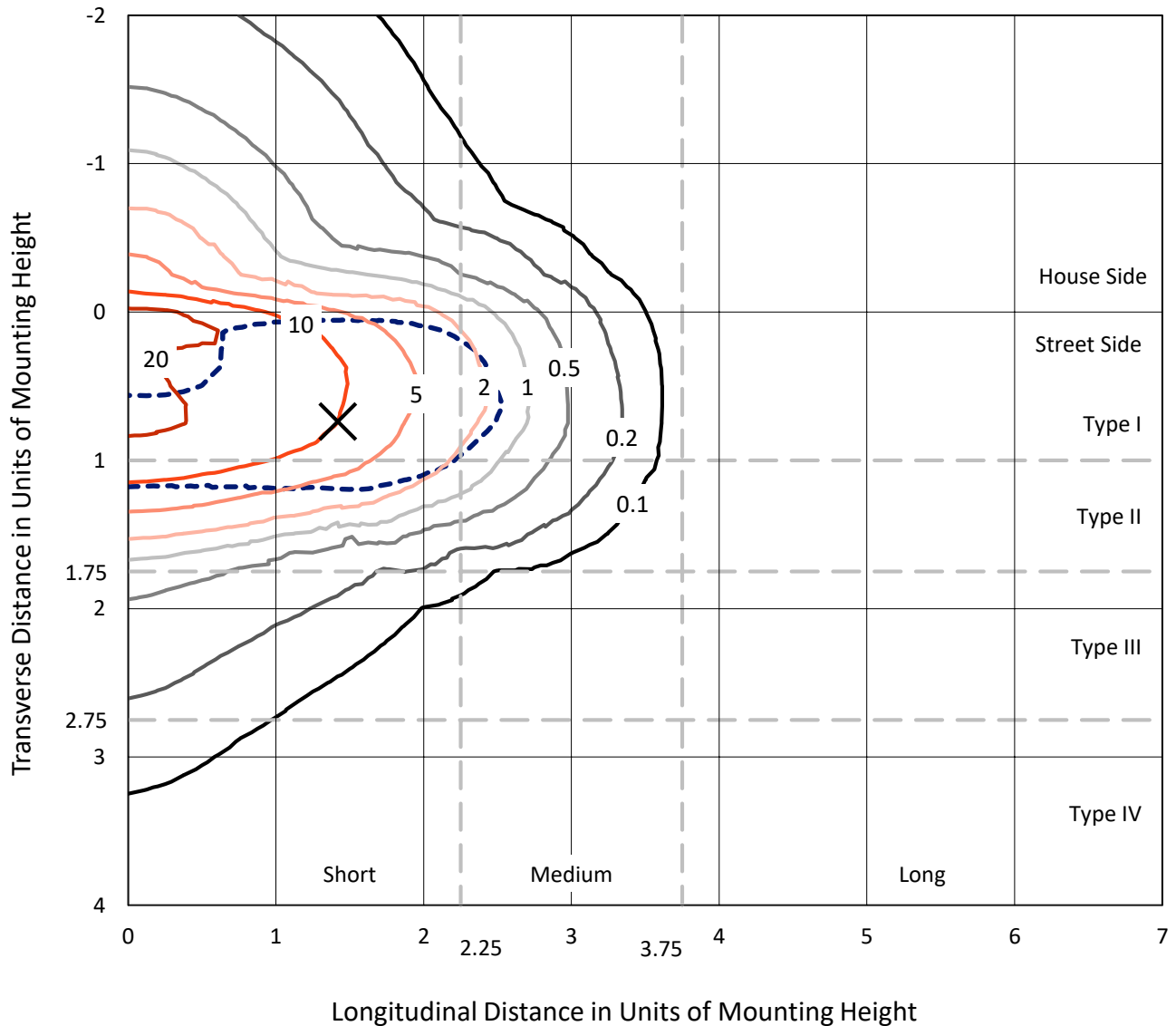
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

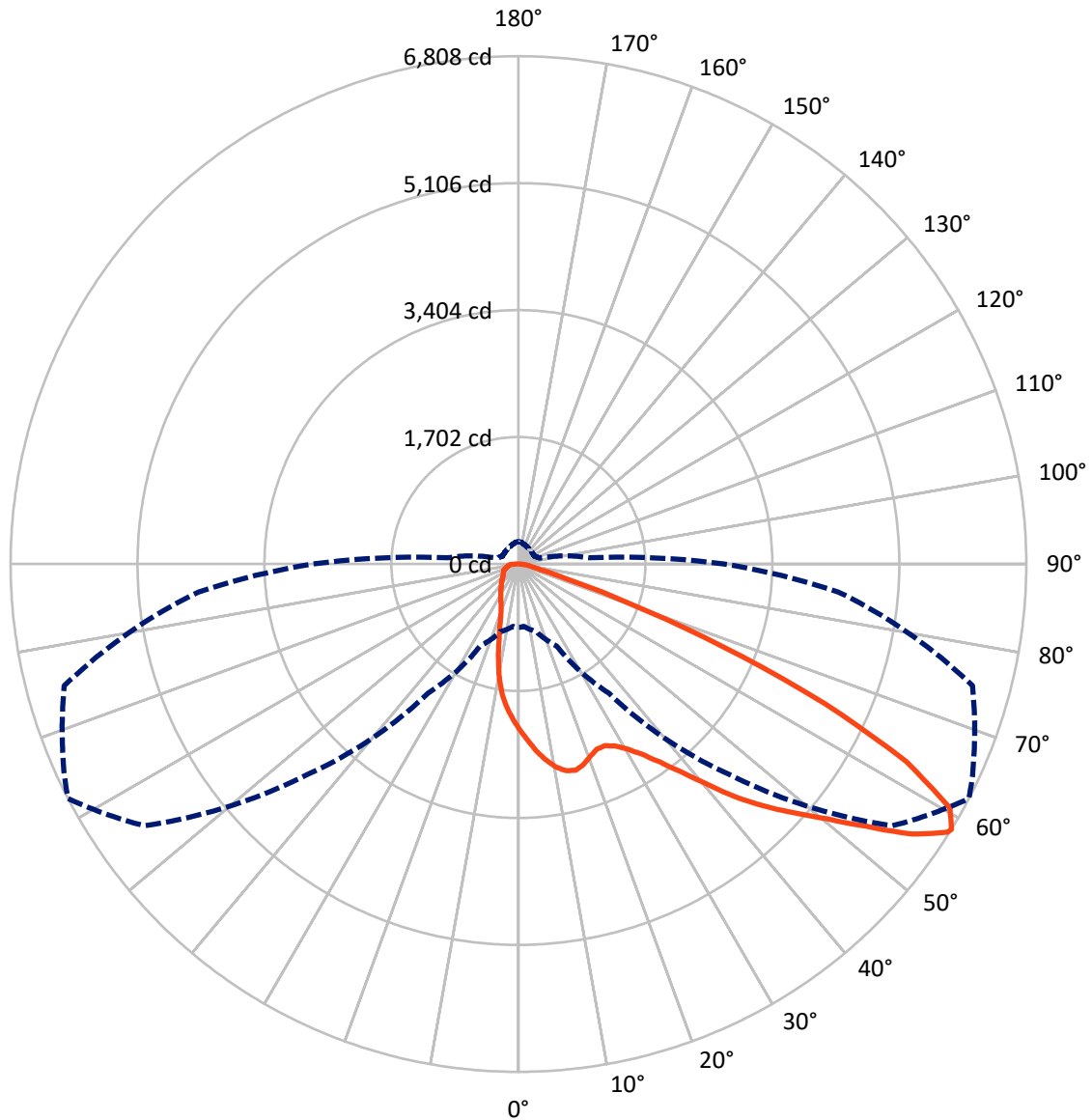
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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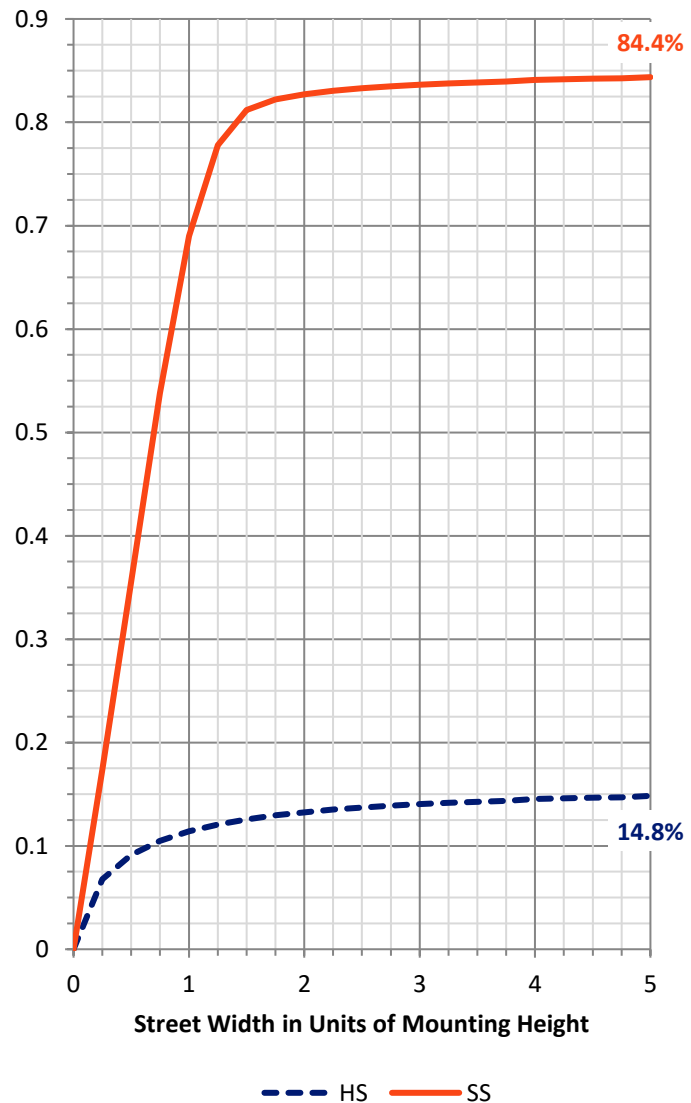
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.6	0.0	1278.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	7049.2	0.0	7049.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	8327.8	0.0	8327.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	2.4
10°-20°	501.6	6.0
20°-30°	812.9	9.8
30°-40°	1297.8	15.6
40°-50°	1887.7	22.7
50°-60°	1975.3	23.7
60°-70°	1204.2	14.5
70°-80°	336.8	4.0
80°-90°	112.9	1.4
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°	8327.8	100.0
0°-180°	8327.8	100.0



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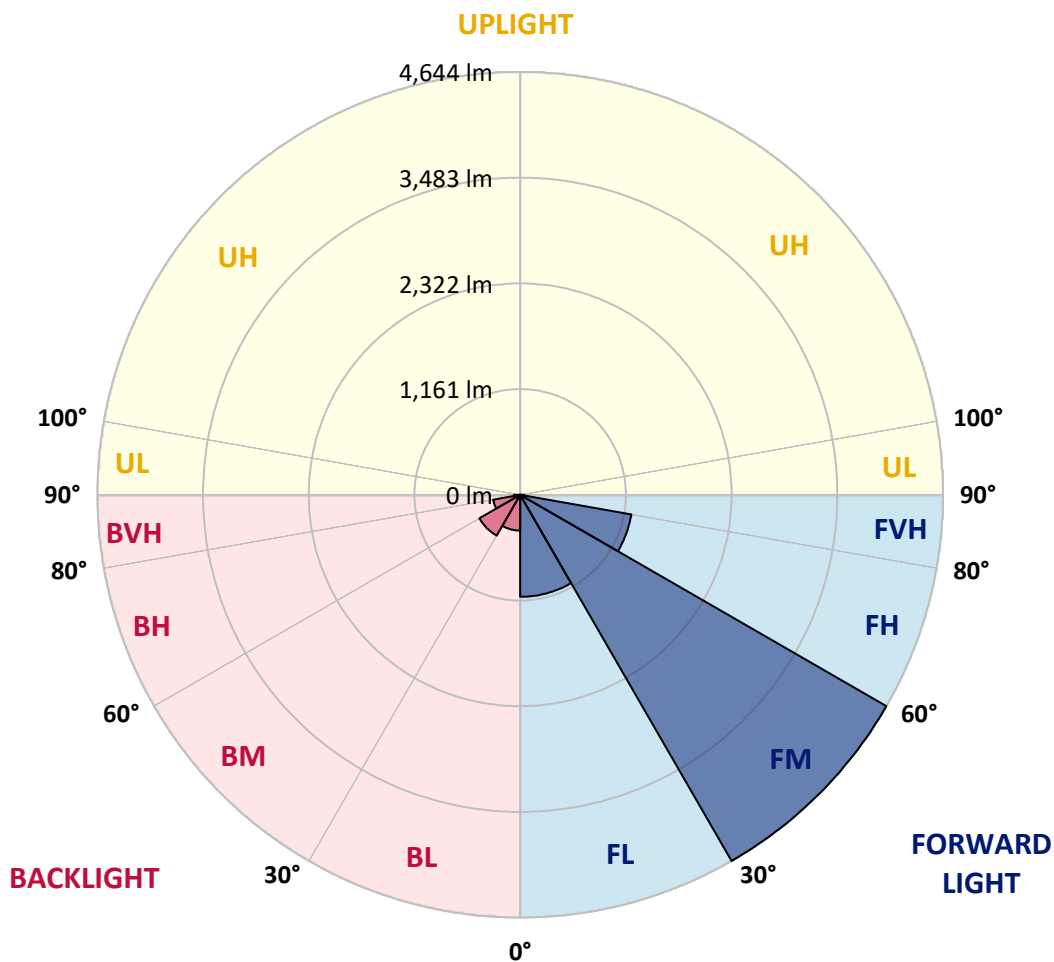
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.1	13.5			
FM	(30°-60°)	4643.7	55.8			
FH	(60°-80°)	1240.0	14.9			G1/1800
FVH	(80°-90°)	45.4	0.5			G1/100
BL	(0°-30°)	393.1	4.7	B1/500		
BM	(30°-60°)	517.1	6.2	B1/1000		
BH	(60°-80°)	301.0	3.6	B1/500		G1/500
BVH	(80°-90°)	67.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2523.8	2522.2	2500.9	2486.8	2470.2	2431.7	2393.2	2364.6	2349.9	2294.3	2240.2
5°	2732.5	2726.3	2714.3	2699.2	2677.4	2628.9	2568.0	2515.4	2494.7	2395.8	2296.3
7.5°	2622.1	2632.1	2669.0	2710.6	2754.4	2757.5	2714.3	2651.8	2628.9	2496.7	2350.9
10°	2316.7	2312.5	2358.8	2440.0	2584.2	2726.8	2798.1	2767.4	2743.5	2592.5	2405.7
12.5°	2224.0	2223.0	2230.7	2251.6	2342.1	2537.8	2776.7	2843.4	2835.0	2693.9	2464.0
15°	2252.1	2253.2	2252.6	2255.2	2280.3	2373.3	2657.5	2868.9	2894.8	2794.4	2523.3
17.5°	2342.1	2338.5	2327.0	2314.5	2318.2	2351.6	2529.0	2825.2	2903.2	2884.0	2573.2
20°	2481.1	2481.1	2450.4	2415.5	2392.7	2399.9	2475.4	2750.2	2864.7	2959.9	2610.7
22.5°	2655.5	2658.0	2612.8	2549.3	2497.2	2477.5	2506.1	2694.6	2817.8	3030.2	2644.0
25°	2872.0	2871.4	2805.3	2714.3	2632.1	2584.7	2584.2	2697.1	2803.3	3112.4	2678.9
27.5°	3140.0	3115.6	3038.6	2909.0	2792.9	2720.5	2687.7	2762.7	2834.0	3213.4	2725.8
30°	3442.4	3417.5	3316.5	3150.0	2992.7	2887.1	2833.0	2876.1	2927.7	3342.0	2796.5
32.5°	3741.7	3747.5	3628.8	3440.9	3239.0	3090.0	3009.9	3036.4	3072.3	3499.2	2892.3
35°	4180.0	4179.5	4024.3	3789.6	3549.6	3343.5	3242.0	3256.2	3288.9	3720.9	3026.6
37.5°	4506.8	4501.6	4401.7	4194.0	3923.8	3676.7	3529.9	3531.9	3560.1	3999.3	3203.6
40°	4540.2	4539.0	4538.5	4508.9	4324.1	4091.0	3907.3	3869.2	3880.7	4295.0	3391.4
42.5°	4285.7	4323.6	4432.9	4600.5	4652.1	4529.7	4355.8	4271.0	4246.1	4634.4	3590.3
45°	3922.8	3942.1	4133.6	4510.5	4817.0	4942.0	4811.2	4632.2	4589.6	4964.3	3752.1
47.5°	3754.2	3745.8	3856.7	4267.4	4800.9	5269.8	5279.2	4985.7	4913.3	5249.0	3890.1
50°	3392.5	3381.6	3521.5	3909.8	4625.0	5432.8	5759.6	5370.8	5237.0	5519.6	4015.0
52.5°	2671.6	2661.2	2849.1	3349.2	4231.4	5371.8	6164.5	5843.4	5615.4	5780.4	4131.6
55°	1738.4	1739.4	1918.4	2434.3	3424.2	5016.9	6354.5	6389.4	6133.8	6041.1	4225.7
57.5°	957.2	948.3	1075.8	1392.7	2355.7	4210.7	6196.3	6782.9	6649.6	6265.0	4293.9
58°	851.0	840.6	939.0	1212.2	2112.1	3983.2	6116.6	6807.8	6715.7	6302.0	4303.9
60°	606.4	588.7	573.6	683.4	1216.9	2872.0	5585.7	6646.0	6735.0	6375.8	4294.4
62.5°	511.1	490.8	436.7	432.5	573.1	1404.8	4417.3	5836.7	6085.9	6205.6	4143.6
65°	474.6	454.4	383.1	357.5	388.8	606.4	2731.5	4506.8	4839.9	5613.9	3763.5
67.5°	448.7	424.7	348.2	314.9	321.1	362.7	1159.1	2947.4	3333.7	4377.7	3019.2
70°	425.2	398.6	320.6	282.1	276.9	275.9	452.9	1539.0	1911.2	2864.7	2022.6
72.5°	398.6	372.7	296.1	255.0	243.6	223.8	272.2	636.1	871.8	1404.2	927.0
75°	360.2	338.8	269.0	232.6	212.9	181.7	200.9	305.0	375.8	537.7	430.5
77.5°	317.0	299.8	241.5	213.9	187.4	148.3	153.5	206.6	232.1	302.9	249.3
80°	224.3	230.6	210.8	188.4	165.0	119.7	118.2	151.5	166.5	203.5	167.6
82.5°	154.6	159.3	171.8	148.8	133.3	93.2	87.0	105.2	112.9	122.9	81.2
85°	110.4	107.2	119.2	106.7	97.9	59.3	55.6	66.6	71.3	75.0	39.1
87.5°	67.1	66.6	68.7	55.1	51.0	30.2	27.6	31.7	33.9	32.8	18.7
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°	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2219.8	2194.3	2138.7	2093.9	2045.5	2008.6	1971.5	1950.8	1927.9	1914.9	1913.2
5°	2244.3	2192.3	2073.6	1963.2	1849.8	1747.8	1647.9	1573.9	1513.6	1479.2	1477.1
7.5°	2271.4	2189.6	2006.4	1815.4	1613.5	1412.6	1235.1	1109.7	1029.0	991.5	988.9
10°	2292.2	2178.7	1924.7	1627.5	1307.4	1042.0	880.7	806.7	782.3	776.0	775.0
12.5°	2317.2	2170.9	1821.7	1386.5	999.3	793.2	744.3	739.6	744.8	747.9	748.5
15°	2340.6	2155.8	1682.8	1119.5	782.3	708.9	709.9	719.9	730.2	734.9	735.4
17.5°	2351.6	2118.8	1500.1	882.2	684.5	670.9	682.8	695.9	705.2	708.9	708.9
20°	2351.6	2059.5	1288.2	714.6	633.4	636.1	650.6	660.5	662.6	659.4	657.9
22.5°	2341.6	1986.2	1082.1	623.5	591.8	601.7	613.2	606.4	581.9	563.1	559.6
25°	2332.7	1899.2	883.7	567.8	555.4	568.4	563.6	517.3	479.9	460.6	457.5
27.5°	2318.2	1794.1	718.2	522.0	520.0	530.4	484.1	439.3	420.5	410.1	408.1
30°	2314.5	1680.1	601.2	481.4	485.1	470.6	417.5	402.8	398.6	392.9	390.4
32.5°	2326.5	1566.1	527.7	448.2	451.7	403.9	383.6	385.7	385.1	377.9	375.2
35°	2359.3	1455.2	480.9	418.0	407.5	361.7	364.4	370.6	370.6	361.7	358.6
37.5°	2416.6	1352.2	451.2	392.4	356.5	339.8	346.7	355.0	355.0	348.7	346.2
40°	2477.5	1251.8	428.9	372.1	324.3	324.8	331.5	337.8	340.4	341.5	339.3
42.5°	2532.6	1147.6	404.9	350.3	309.6	313.3	316.5	321.1	332.0	339.3	338.3
45°	2564.9	1043.0	378.9	323.3	299.8	301.4	300.3	308.6	321.6	332.6	332.6
47.5°	2594.6	957.2	357.5	296.1	289.9	289.9	286.7	295.1	307.1	320.1	321.1
50°	2622.6	901.4	342.5	275.4	277.4	275.9	274.8	282.6	298.8	314.4	317.0
52.5°	2651.3	882.7	329.0	260.2	264.4	262.3	263.4	274.3	292.5	308.6	311.3
55°	2691.4	894.7	314.9	249.8	252.0	251.4	255.5	268.0	284.2	300.3	301.4
57.5°	2740.8	938.5	302.9	242.0	240.0	243.1	249.8	261.8	277.4	296.7	298.2
58°	2750.7	948.8	300.8	240.0	237.3	242.0	248.8	260.2	276.4	296.7	298.2
60°	2765.9	985.8	295.6	235.8	228.5	236.8	245.1	256.6	274.3	299.3	302.4
62.5°	2692.9	993.1	294.1	231.1	219.1	229.6	239.4	252.5	272.2	308.1	314.9
65°	2440.6	918.1	283.2	223.3	211.3	223.8	234.3	249.3	278.4	334.7	337.8
67.5°	1959.1	762.5	256.6	211.3	202.4	217.1	230.1	249.3	281.1	338.8	340.9
70°	1347.0	573.1	223.3	198.4	192.0	208.7	228.5	255.0	272.2	320.6	314.4
72.5°	703.7	398.6	195.7	183.2	179.5	201.4	243.6	249.3	261.8	299.3	293.1
75°	354.5	271.2	172.3	166.0	165.5	198.9	272.7	240.0	250.8	281.6	295.1
77.5°	209.2	212.4	153.5	149.9	152.5	194.2	273.2	230.6	238.3	259.2	273.7
80°	143.1	175.4	138.9	137.9	140.0	178.5	252.0	219.1	223.8	245.1	260.8
82.5°	80.7	96.8	121.8	128.6	127.6	146.3	217.6	199.4	205.1	289.9	306.6
85°	39.1	58.3	102.0	120.2	108.7	97.3	177.0	177.0	178.5	207.7	210.3
87.5°	14.5	26.0	68.7	95.2	76.0	58.3	120.2	125.4	139.5	143.6	146.8
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)