

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: P198561

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198561
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-SL3-7030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11695 lumens
Efficiency: N/A
Efficacy: 91.4 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 - G3

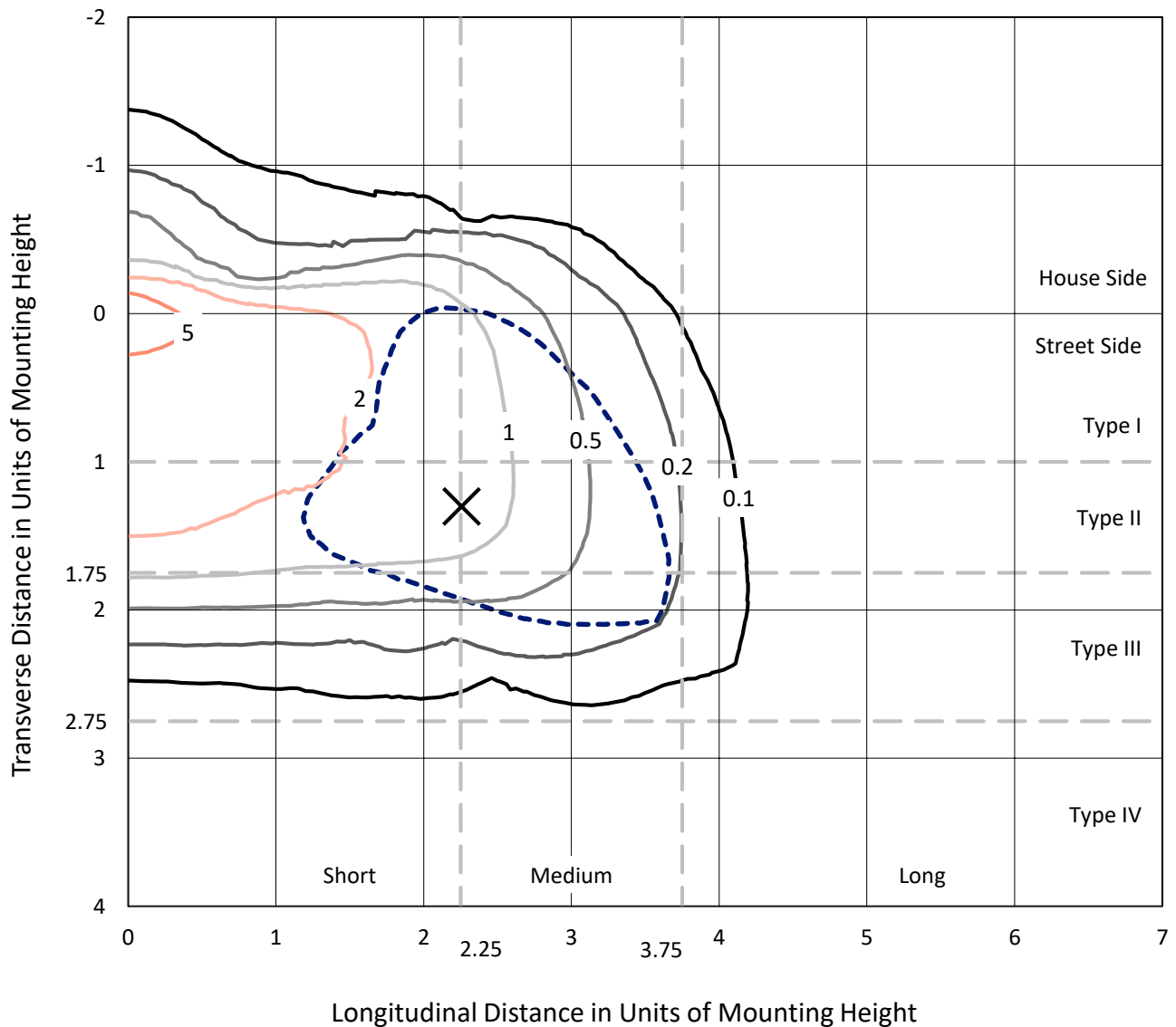
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198561
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

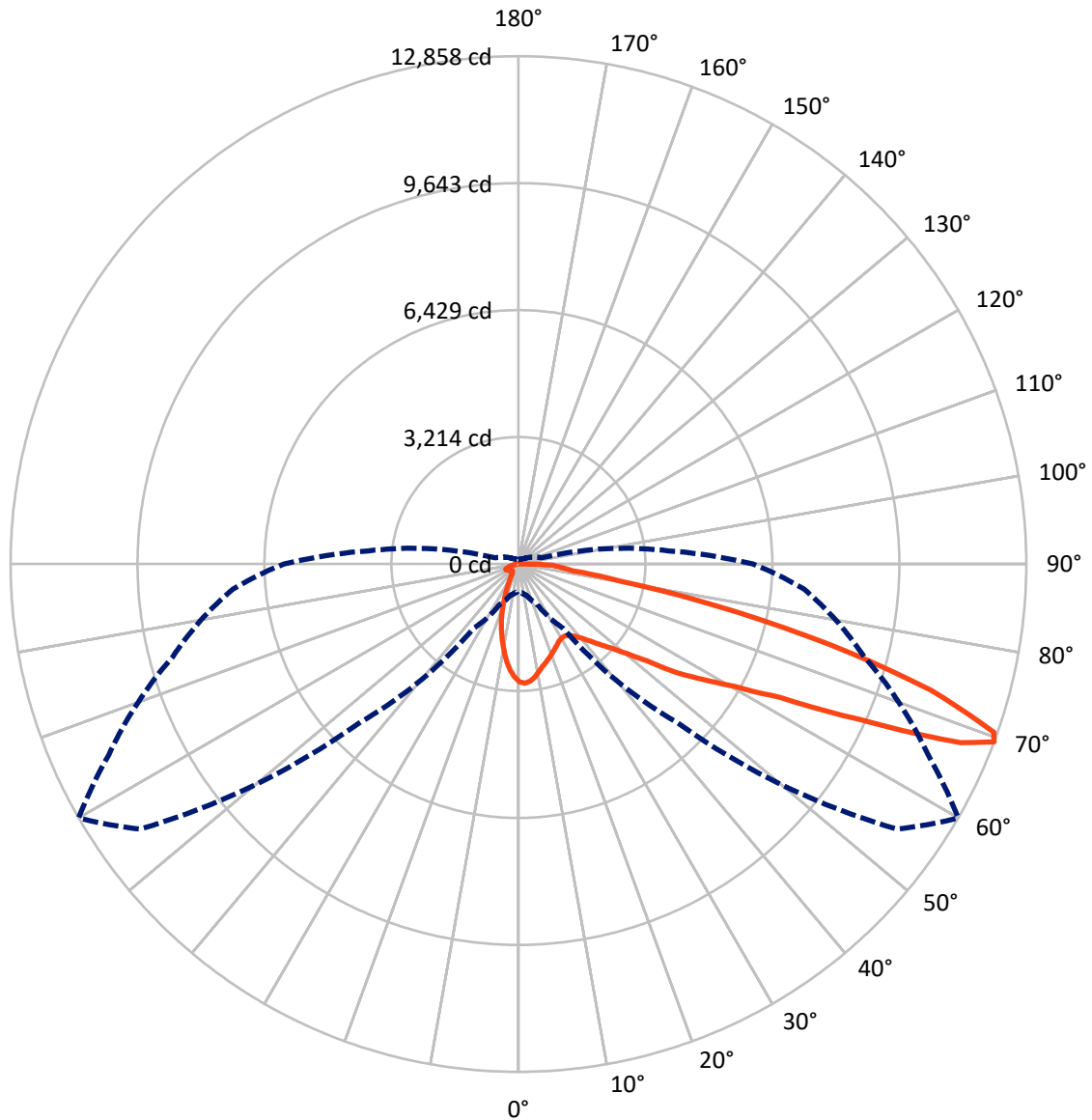


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P198561

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

Luminous Intensity Polar Plot



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

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1668.1	0.0	1668.1
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	10026.9	0.0	10026.9
	% Fixture	85.7	0.0	85.7
Total	Lumens	11695.0	0.0	11695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	2.2
10°-20°	542.0	4.6
20°-30°	691.4	5.9
30°-40°	951.5	8.1
40°-50°	1541.2	13.2
50°-60°	2418.9	20.7
60°-70°	3224.8	27.6
70°-80°	1793.7	15.3
80°-90°	278.2	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°	11695.0	100.0
0°-180°	11695.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198561

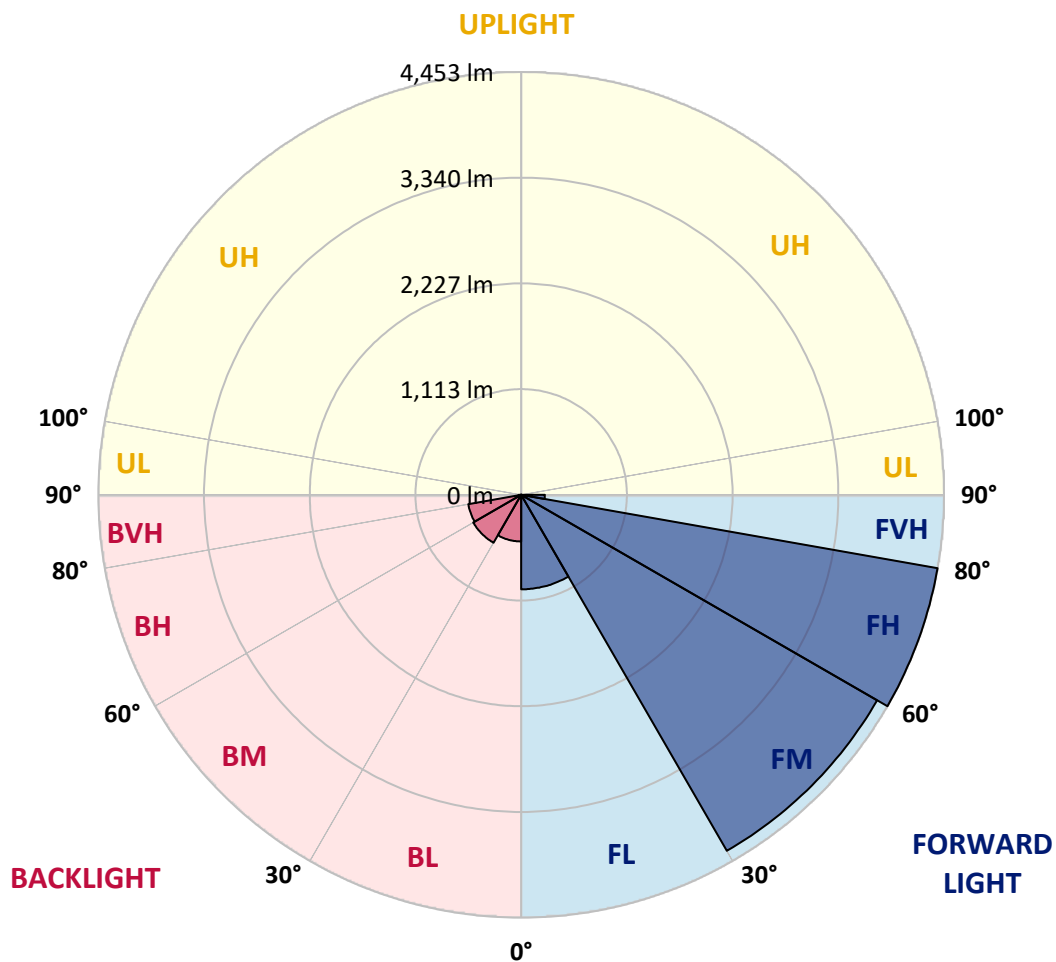
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.0	8.5			
FM (30°-60°)	4328.9	37.0			
FH (60°-80°)	4453.0	38.1			G2/5000
FVH (80°-90°)	250.0	2.1			G3/500
BL (0°-30°)	491.6	4.2	B1/500		
BM (30°-60°)	582.7	5.0	B1/1000		
BH (60°-80°)	565.6	4.8	B2/1000		G2/1000
BVH (80°-90°)	28.2	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-G3

Type III Medium





REPORT NUMBER: P198561

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0
2.5°	3063.5	3071.8	3071.8	3065.0	3061.3	3039.5	3026.8	3017.8	3002.0	2972.8	2946.5
5°	2954.0	2969.8	2976.5	2979.5	2999.0	2992.3	2993.0	2987.0	2973.5	2942.0	2899.3
7.5°	2753.0	2756.0	2768.0	2788.3	2835.5	2868.5	2895.5	2900.8	2897.8	2874.5	2814.5
10°	2555.0	2560.3	2574.5	2609.0	2654.0	2701.3	2759.8	2783.8	2801.8	2794.3	2718.5
12.5°	2390.8	2391.6	2407.3	2447.1	2497.3	2556.5	2636.0	2673.5	2716.3	2733.5	2648.8
15°	2232.6	2243.1	2258.1	2306.1	2368.3	2443.3	2534.8	2586.5	2642.8	2692.3	2594.8
17.5°	2112.6	2120.8	2129.8	2169.6	2241.6	2335.3	2448.6	2504.1	2578.3	2654.0	2539.3
20°	2046.6	2049.6	2042.8	2062.3	2123.1	2224.3	2355.6	2422.3	2510.8	2617.3	2482.3
22.5°	2033.1	2033.1	2008.3	2004.6	2031.6	2117.1	2259.6	2341.3	2449.3	2591.8	2431.3
25°	2096.1	2091.6	2045.1	2002.3	1992.6	2036.1	2168.1	2268.6	2396.8	2591.0	2393.1
27.5°	2215.3	2209.3	2151.6	2079.6	2017.3	1998.6	2097.6	2200.3	2355.6	2616.5	2373.6
30°	2363.8	2361.6	2303.1	2213.1	2110.3	2013.6	2069.8	2165.1	2327.8	2663.8	2372.8
32.5°	2526.6	2516.1	2480.1	2390.1	2256.6	2096.8	2086.3	2166.6	2320.3	2732.8	2390.1
35°	2699.8	2692.3	2683.3	2592.5	2442.6	2243.8	2159.1	2218.3	2357.1	2828.8	2438.8
37.5°	2920.3	2912.0	2927.0	2828.0	2663.8	2436.6	2282.1	2321.8	2432.1	2968.3	2529.6
40°	3312.5	3288.5	3246.5	3094.3	2921.8	2672.8	2459.8	2465.8	2560.3	3155.0	2675.0
42.5°	3956.7	3879.4	3671.7	3392.0	3194.0	2947.3	2691.5	2663.0	2737.3	3401.7	2886.5
45°	4602.4	4515.4	4164.4	3716.7	3476.0	3242.0	2978.0	2909.8	2957.8	3689.0	3158.8
47.5°	5019.4	4976.6	4580.6	4041.4	3771.5	3563.0	3305.7	3193.2	3227.7	4014.4	3494.7
50°	5141.6	5104.9	4793.6	4295.7	4050.4	3950.7	3711.5	3562.2	3568.2	4394.7	3897.4
52.5°	5050.1	5035.1	4828.9	4453.2	4306.9	4359.4	4273.2	4065.4	4015.9	4811.6	4333.9
55°	4927.9	4933.1	4853.6	4611.4	4567.9	4740.4	5008.1	4840.9	4630.9	5245.8	4788.4
57.5°	4543.1	4546.9	4755.4	4912.9	5065.9	5274.3	5580.3	5509.8	5265.3	5714.6	5297.6
60°	3658.2	3687.5	4151.7	4850.6	5635.1	6326.5	6401.5	6280.0	5940.3	6254.5	5959.8
62.5°	2613.5	2639.8	3177.5	4210.9	5568.3	7517.4	7917.9	7434.9	6856.0	7062.2	6891.2
65°	1373.1	1368.6	1784.9	2909.8	4690.1	7793.4	10307.2	9485.3	8398.6	8172.9	7791.1
67.5°	767.2	791.9	953.2	1467.6	3056.8	6859.0	11833.3	12075.6	10543.4	9054.0	7752.1
69°	709.4	717.7	825.7	1134.7	1992.6	5659.1	11702.1	12857.7	11447.9	9057.8	7252.7
70°	689.2	698.2	796.4	1045.4	1673.9	4636.9	11224.4	12766.3	11667.6	8856.8	6798.2
72.5°	618.0	630.0	725.2	939.7	1410.6	2390.1	9041.3	10926.6	10568.9	7740.9	5271.3
75°	527.2	547.5	691.4	932.9	1336.4	1519.4	6029.5	8140.6	7866.1	5536.1	2990.8
77.5°	218.2	220.5	302.2	683.2	1402.4	1454.1	3240.5	5156.6	4564.9	2427.6	900.7
80°	152.2	149.2	150.7	199.5	1131.7	1463.9	1662.6	2622.5	2038.3	640.4	421.5
82.5°	128.2	126.7	132.7	125.2	383.2	1661.1	1390.4	1367.1	959.9	345.0	201.0
85°	84.7	82.5	108.7	114.0	182.2	1319.1	1495.4	1074.7	715.4	184.5	85.5
87.5°	41.2	42.0	62.2	77.2	96.7	417.7	1432.4	849.7	552.7	80.2	34.5
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: P198561

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0	2984.0
2.5°	2936.0	2913.5	2893.3	2867.8	2848.3	2831.8	2809.3	2808.5	2804.8	2810.0	2811.5
5°	2870.8	2833.3	2776.3	2712.5	2667.5	2608.3	2550.6	2531.1	2509.3	2507.1	2513.8
7.5°	2772.5	2714.0	2616.5	2519.1	2421.6	2321.8	2227.3	2179.3	2132.8	2118.6	2125.3
10°	2663.0	2588.8	2439.6	2280.6	2143.3	1994.8	1850.9	1757.9	1673.1	1637.1	1646.1
12.5°	2577.5	2483.1	2273.1	2066.8	1861.4	1648.4	1458.6	1274.9	1136.2	1073.9	1077.7
15°	2504.1	2383.3	2117.1	1842.6	1585.4	1293.6	1030.4	817.4	695.9	650.9	649.4
17.5°	2424.6	2278.3	1954.3	1634.1	1300.4	939.7	689.9	564.0	516.0	501.0	501.0
20°	2339.8	2170.3	1784.1	1406.9	1000.4	656.2	519.0	470.2	452.2	447.7	447.0
22.5°	2261.1	2064.6	1613.1	1164.7	723.7	498.0	441.7	423.0	420.0	423.7	423.7
25°	2198.8	1971.6	1439.9	909.7	526.5	417.0	393.0	390.7	402.0	415.5	417.7
27.5°	2152.3	1888.4	1268.9	664.4	414.0	363.0	354.7	364.5	390.7	417.7	423.0
30°	2120.1	1817.1	1064.2	477.7	345.0	318.0	321.7	339.0	378.7	420.0	431.2
32.5°	2105.8	1759.4	857.9	366.7	294.7	279.7	289.5	312.0	353.2	394.5	408.0
35°	2119.3	1717.4	667.4	304.5	258.0	246.7	258.0	281.2	308.2	328.5	336.7
37.5°	2168.1	1702.4	502.5	270.0	234.0	222.7	231.7	247.5	259.5	267.0	270.7
40°	2270.8	1718.1	393.7	252.0	220.5	207.7	210.0	217.5	225.7	231.7	232.5
42.5°	2434.3	1769.9	350.2	245.2	212.2	195.7	192.0	197.2	206.2	214.5	216.0
45°	2651.8	1856.1	345.7	247.5	208.5	186.0	178.5	183.7	195.7	209.2	211.5
47.5°	2933.0	1992.6	366.7	259.5	210.7	180.7	169.5	174.7	190.5	208.5	211.5
50°	3266.0	2181.6	405.7	277.5	221.2	180.7	165.7	170.2	186.7	207.0	210.0
52.5°	3658.2	2444.8	446.2	295.5	236.2	187.5	167.2	166.5	181.5	200.2	204.0
55°	4090.9	2771.8	485.2	311.2	244.5	196.5	171.0	162.0	174.0	189.0	192.0
57.5°	4600.1	3219.5	553.5	326.2	249.0	203.2	175.5	157.5	164.2	174.7	177.0
60°	5290.8	3877.2	686.2	351.7	257.2	206.2	176.2	153.0	152.2	159.7	160.5
62.5°	6191.5	4647.4	812.9	381.7	273.7	207.0	173.2	150.0	142.5	144.7	144.7
65°	6832.0	4930.9	776.2	407.2	288.7	206.2	170.2	147.7	135.0	131.2	131.2
67.5°	6467.5	4355.7	659.2	414.0	290.2	198.0	163.5	142.5	128.2	119.2	119.2
69°	5932.0	3818.0	605.2	402.0	278.2	188.2	156.0	137.2	123.7	113.2	113.2
70°	5495.6	3410.7	572.2	387.7	264.0	180.0	149.2	132.0	119.2	110.2	109.5
72.5°	4102.9	2276.1	489.0	334.5	216.7	152.2	130.5	117.7	107.2	101.2	101.2
75°	2165.1	1140.7	400.5	273.0	167.2	121.5	107.2	99.0	93.0	92.2	91.5
77.5°	709.4	516.0	288.0	205.5	123.0	94.5	85.5	80.2	79.5	82.5	82.5
80°	383.2	308.2	185.2	138.7	85.5	70.5	66.0	65.2	67.5	72.0	72.0
82.5°	186.0	152.2	110.2	85.5	58.5	51.7	51.7	52.5	55.5	60.7	60.7
85°	80.2	72.0	63.7	48.0	36.0	32.2	36.7	40.5	42.7	46.5	48.0
87.5°	38.2	33.7	29.2	18.7	15.7	16.5	19.5	24.0	28.5	31.5	32.2
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)