

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: P271318

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271318
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-SL3-7027-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 11478.4 lumens
Efficiency: N/A
Efficacy: 89.7 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

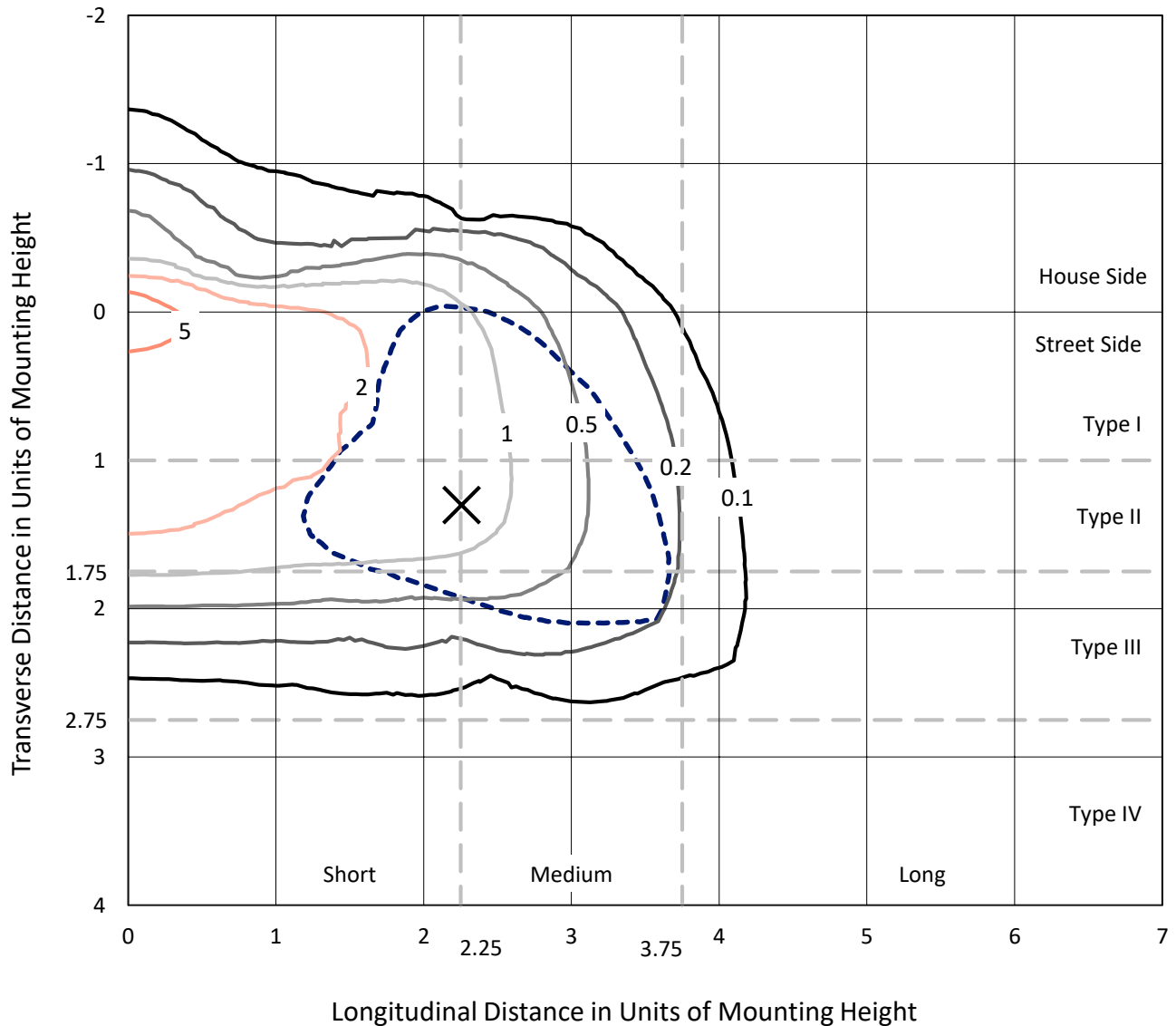


REPORT NUMBER: P271318

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

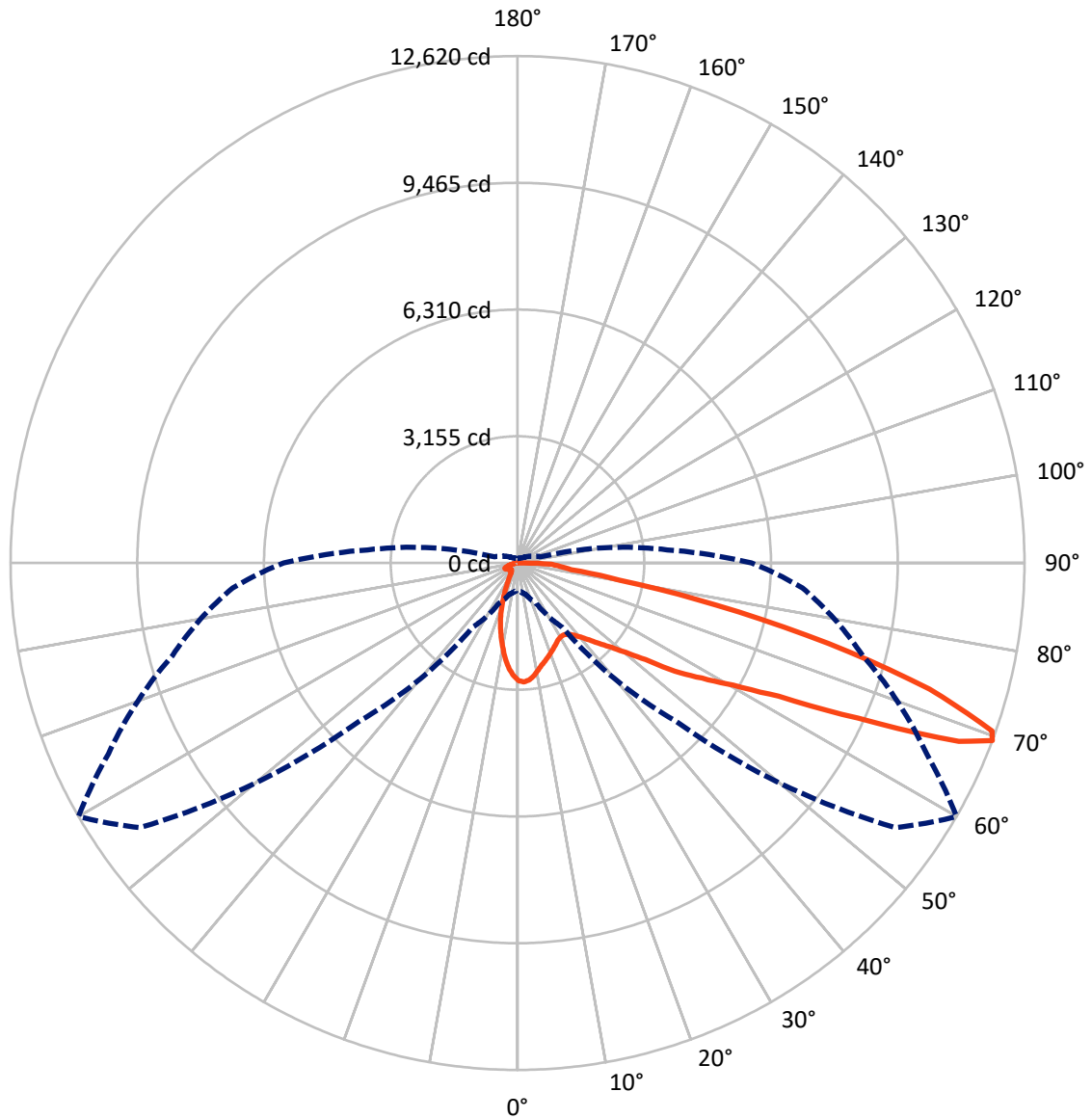


Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271318

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P271318

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1637.2	0.0	1637.2
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	9841.2	0.0	9841.2
	% Fixture	85.7	0.0	85.7
Total	Lumens	11478.4	0.0	11478.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	2.2
10°-20°	532.0	4.6
20°-30°	678.6	5.9
30°-40°	933.9	8.1
40°-50°	1512.7	13.2
50°-60°	2374.1	20.7
60°-70°	3165.1	27.6
70°-80°	1760.5	15.3
80°-90°	273.0	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°	11478.4	100.0
0°-180°	11478.4	100.0

Coefficient of Utilization



REPORT NUMBER: P271318

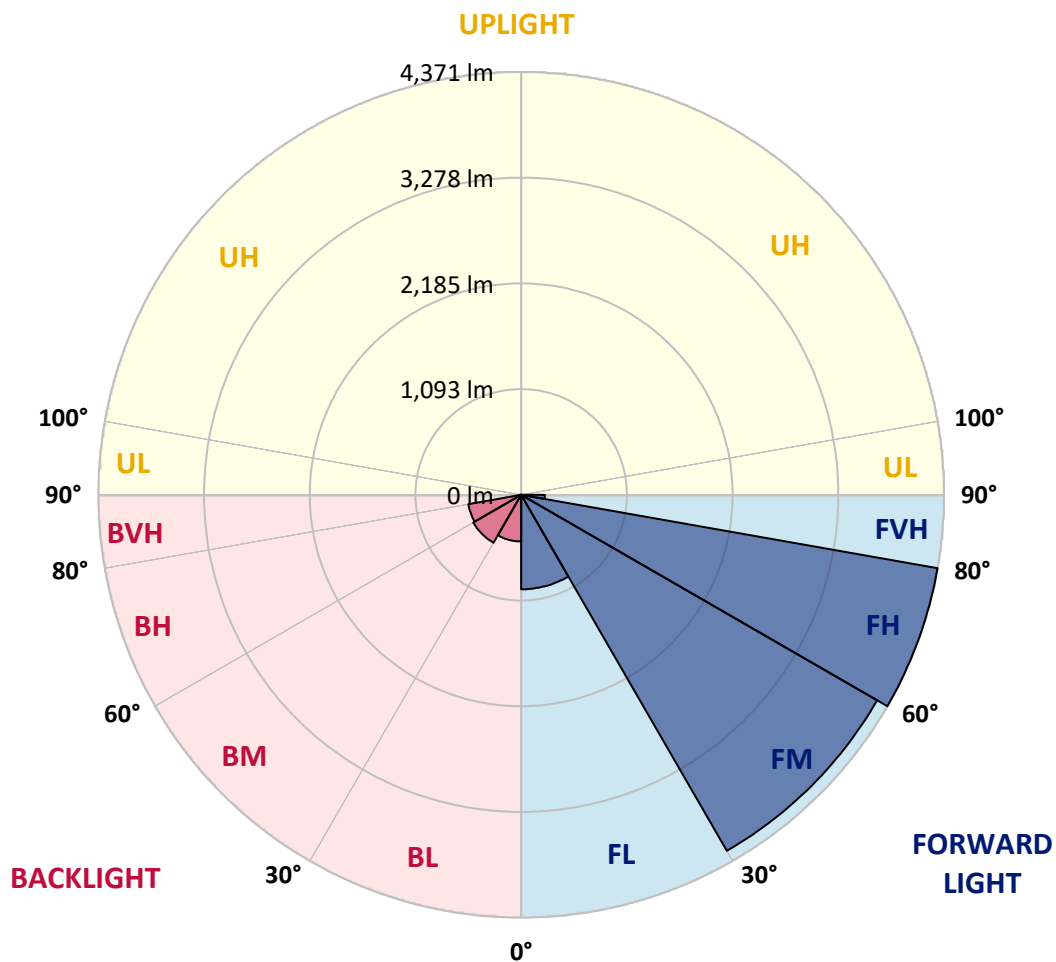
CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.6	8.5			
FM (30°-60°)	4248.7	37.0			
FH (60°-80°)	4370.5	38.1			G2/5000
FVH (80°-90°)	245.4	2.1			G3/500
BL (0°-30°)	482.5	4.2	B1/500		
BM (30°-60°)	572.0	5.0	B1/1000		
BH (60°-80°)	555.1	4.8	B2/1000		G2/1000
BVH (80°-90°)	27.7	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: P271318

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7
2.5°	3006.7	3014.9	3014.9	3008.2	3004.7	2983.2	2970.8	2961.9	2946.4	2917.8	2892.0
5°	2899.3	2914.8	2921.4	2924.3	2943.4	2936.9	2937.5	2931.7	2918.5	2887.5	2845.7
7.5°	2702.0	2704.9	2716.7	2736.6	2782.9	2815.4	2841.9	2847.1	2844.2	2821.2	2762.4
10°	2507.7	2512.9	2526.8	2560.7	2604.8	2651.3	2708.7	2732.3	2749.9	2742.5	2668.1
12.5°	2346.6	2347.4	2362.7	2401.8	2451.0	2509.1	2587.2	2623.9	2666.0	2682.9	2599.8
15°	2191.2	2201.6	2216.3	2263.4	2324.5	2398.0	2487.9	2538.6	2593.9	2642.5	2546.8
17.5°	2073.5	2081.6	2090.4	2129.4	2200.0	2292.0	2403.2	2457.8	2530.5	2604.8	2492.3
20°	2008.7	2011.7	2004.9	2024.2	2083.8	2183.2	2312.0	2377.5	2464.3	2568.9	2436.4
22.5°	1995.4	1995.4	1971.2	1967.5	1994.0	2077.9	2217.7	2298.0	2404.0	2543.8	2386.3
25°	2057.3	2052.8	2007.3	1965.2	1955.7	1998.4	2127.9	2226.5	2352.4	2543.0	2348.8
27.5°	2174.3	2168.4	2111.7	2041.0	1980.0	1961.5	2058.7	2159.5	2312.0	2568.1	2329.7
30°	2320.1	2317.8	2260.4	2172.1	2071.2	1976.4	2031.4	2125.0	2284.7	2614.4	2328.9
32.5°	2479.9	2469.5	2434.1	2345.8	2214.9	2057.9	2047.6	2126.5	2277.4	2682.2	2345.8
35°	2649.8	2642.5	2633.7	2544.4	2397.3	2202.3	2119.1	2177.2	2313.4	2776.4	2393.7
37.5°	2866.2	2858.0	2872.8	2775.7	2614.4	2391.5	2239.8	2278.8	2387.1	2913.4	2482.7
40°	3251.1	3227.6	3186.4	3037.0	2867.7	2623.3	2414.3	2420.2	2512.9	3096.5	2625.4
42.5°	3883.5	3807.6	3603.7	3329.2	3134.8	2892.7	2641.6	2613.7	2686.7	3338.7	2833.1
45°	4517.1	4431.8	4087.3	3647.8	3411.7	3181.9	2922.8	2855.9	2903.1	3620.7	3100.3
47.5°	4926.5	4884.4	4495.7	3966.6	3701.6	3497.0	3244.5	3134.0	3168.0	3940.1	3430.0
50°	5046.4	5010.3	4704.9	4216.1	3975.4	3877.5	3642.7	3496.3	3502.1	4313.3	3825.3
52.5°	4956.6	4941.8	4739.5	4370.8	4227.2	4278.6	4194.0	3990.1	3941.6	4722.5	4253.7
55°	4836.7	4841.8	4763.7	4526.0	4483.4	4652.6	4915.3	4751.2	4545.2	5148.6	4699.8
57.5°	4458.9	4462.7	4667.4	4821.9	4972.1	5176.7	5477.0	5407.7	5167.8	5608.7	5199.5
60°	3590.4	3619.2	4074.8	4760.7	5530.8	6209.4	6282.9	6163.7	5830.3	6138.7	5849.5
62.5°	2565.1	2590.9	3118.6	4132.9	5465.2	7378.1	7771.2	7297.2	6729.1	6931.4	6763.6
65°	1347.6	1343.2	1751.9	2855.9	4603.3	7649.1	10116.4	9309.7	8243.0	8021.5	7646.8
67.5°	753.0	777.3	935.6	1440.4	3000.2	6732.0	11614.1	11852.0	10348.1	8886.4	7608.6
69°	696.2	704.5	810.5	1113.7	1955.7	5554.3	11485.4	12619.6	11235.9	8890.0	7118.3
70°	676.5	685.2	781.6	1026.0	1642.9	4551.1	11016.5	12529.9	11451.6	8692.8	6672.3
72.5°	606.5	618.4	711.7	922.3	1384.5	2345.8	8873.8	10724.2	10373.2	7597.5	5173.7
75°	517.5	537.4	678.6	915.6	1311.6	1491.2	5917.9	7989.9	7720.5	5433.6	2935.4
77.5°	214.2	216.4	296.6	670.6	1376.5	1427.1	3180.4	5061.1	4480.3	2382.7	884.0
80°	149.4	146.5	148.0	195.8	1110.8	1436.7	1631.9	2574.0	2000.5	628.5	413.7
82.5°	125.9	124.3	130.3	122.9	376.1	1630.3	1364.6	1341.8	942.1	338.7	197.3
85°	83.2	80.9	106.7	111.8	178.9	1294.6	1467.7	1054.8	702.1	181.1	83.9
87.5°	40.5	41.2	61.1	75.7	95.0	409.9	1405.8	833.9	542.4	78.7	33.9
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: P271318

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7	2928.7
2.5°	2881.7	2859.6	2839.7	2814.7	2795.5	2779.4	2757.3	2756.4	2752.9	2757.9	2759.5
5°	2817.7	2780.9	2724.9	2662.2	2618.1	2560.0	2503.3	2484.3	2462.9	2460.6	2467.3
7.5°	2721.1	2663.7	2568.1	2472.4	2376.7	2278.8	2186.0	2139.0	2093.3	2079.3	2086.0
10°	2613.7	2540.9	2394.4	2238.3	2103.7	1957.9	1816.6	1725.4	1642.1	1606.8	1615.6
12.5°	2529.7	2437.1	2231.0	2028.6	1827.0	1617.8	1431.5	1251.2	1115.2	1054.0	1057.8
15°	2457.8	2339.1	2077.9	1808.5	1556.0	1269.7	1011.3	802.2	683.0	638.9	637.3
17.5°	2379.7	2236.2	1918.2	1603.8	1276.3	922.3	677.1	553.5	506.5	491.7	491.7
20°	2296.4	2130.2	1751.1	1380.9	981.8	644.1	509.3	461.5	443.9	439.5	438.7
22.5°	2219.3	2026.3	1583.3	1143.2	710.3	488.8	433.5	415.1	412.2	415.8	415.8
25°	2158.1	1935.0	1413.3	892.8	516.7	409.3	385.7	383.4	394.5	407.8	409.9
27.5°	2112.5	1853.5	1245.4	652.1	406.4	356.3	348.2	357.7	383.4	409.9	415.1
30°	2080.8	1783.5	1044.5	468.8	338.7	312.2	315.8	332.7	371.7	412.2	423.2
32.5°	2066.8	1726.8	842.0	360.0	289.3	274.5	284.1	306.2	346.7	387.2	400.5
35°	2080.0	1685.6	655.0	298.9	253.2	242.2	253.2	276.0	302.5	322.4	330.4
37.5°	2127.9	1670.8	493.2	265.0	229.6	218.6	227.5	242.9	254.7	262.0	265.7
40°	2228.8	1686.3	386.5	247.4	216.4	203.8	206.2	213.4	221.5	227.5	228.2
42.5°	2389.2	1737.1	343.7	240.7	208.2	192.1	188.5	193.6	202.4	210.6	212.0
45°	2602.7	1821.8	339.3	242.9	204.6	182.5	175.2	180.3	192.1	205.4	207.6
47.5°	2878.7	1955.7	360.0	254.7	206.8	177.3	166.4	171.4	186.9	204.6	207.6
50°	3205.5	2141.2	398.2	272.4	217.1	177.3	162.7	167.1	183.3	203.1	206.2
52.5°	3590.4	2399.6	438.0	290.1	231.9	184.1	164.1	163.4	178.1	196.5	200.2
55°	4015.2	2720.4	476.2	305.5	239.9	192.9	167.9	159.0	170.8	185.5	188.5
57.5°	4514.9	3159.9	543.3	320.2	244.3	199.5	172.2	154.6	161.2	171.4	173.7
60°	5192.8	3805.4	673.5	345.2	252.5	202.4	173.0	150.1	149.4	156.8	157.6
62.5°	6076.9	4561.4	797.9	374.7	268.7	203.1	170.0	147.2	139.9	142.0	142.0
65°	6705.5	4839.6	761.9	399.7	283.3	202.4	167.1	144.9	132.5	128.7	128.7
67.5°	6347.8	4275.0	647.0	406.4	284.9	194.4	160.4	139.9	125.9	117.0	117.0
69°	5822.2	3747.3	594.0	394.5	273.1	184.7	153.2	134.7	121.5	111.1	111.1
70°	5393.9	3347.5	561.6	380.5	259.2	176.6	146.5	129.5	117.0	108.2	107.4
72.5°	4026.9	2233.9	480.0	328.3	212.7	149.4	128.1	115.5	105.2	99.4	99.4
75°	2125.0	1119.6	393.1	268.0	164.1	119.3	105.2	97.1	91.3	90.5	89.8
77.5°	696.2	506.5	282.6	201.7	120.7	92.7	83.9	78.7	78.1	80.9	80.9
80°	376.1	302.5	181.7	136.2	83.9	69.2	64.8	64.0	66.3	70.6	70.6
82.5°	182.5	149.4	108.2	83.9	57.4	50.8	50.8	51.6	54.4	59.6	59.6
85°	78.7	70.6	62.5	47.2	35.4	31.6	36.0	39.7	42.0	45.6	47.2
87.5°	37.5	33.1	28.7	18.3	15.5	16.2	19.1	23.5	27.9	30.9	31.6
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)