

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: P198697

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11038.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-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

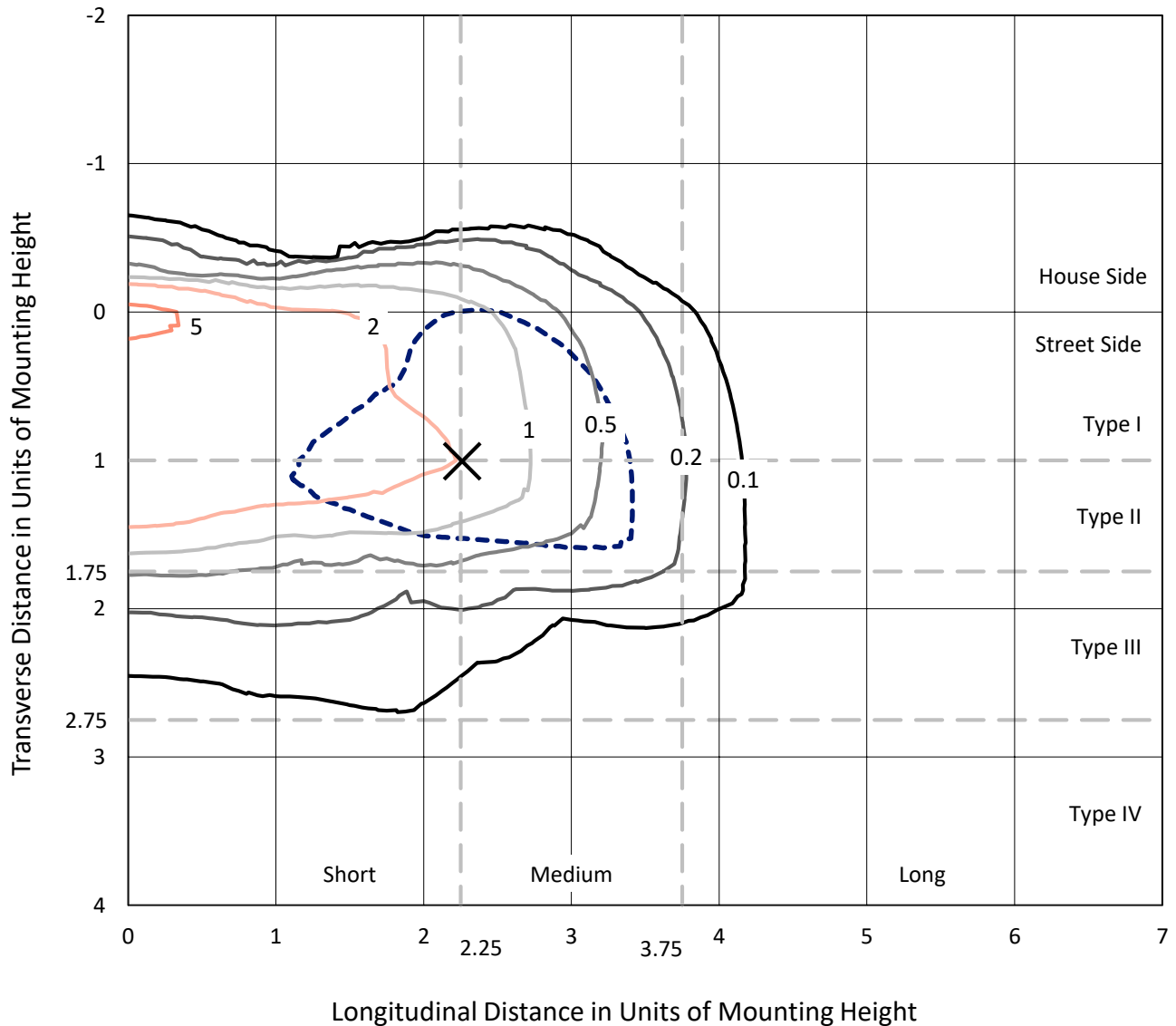


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

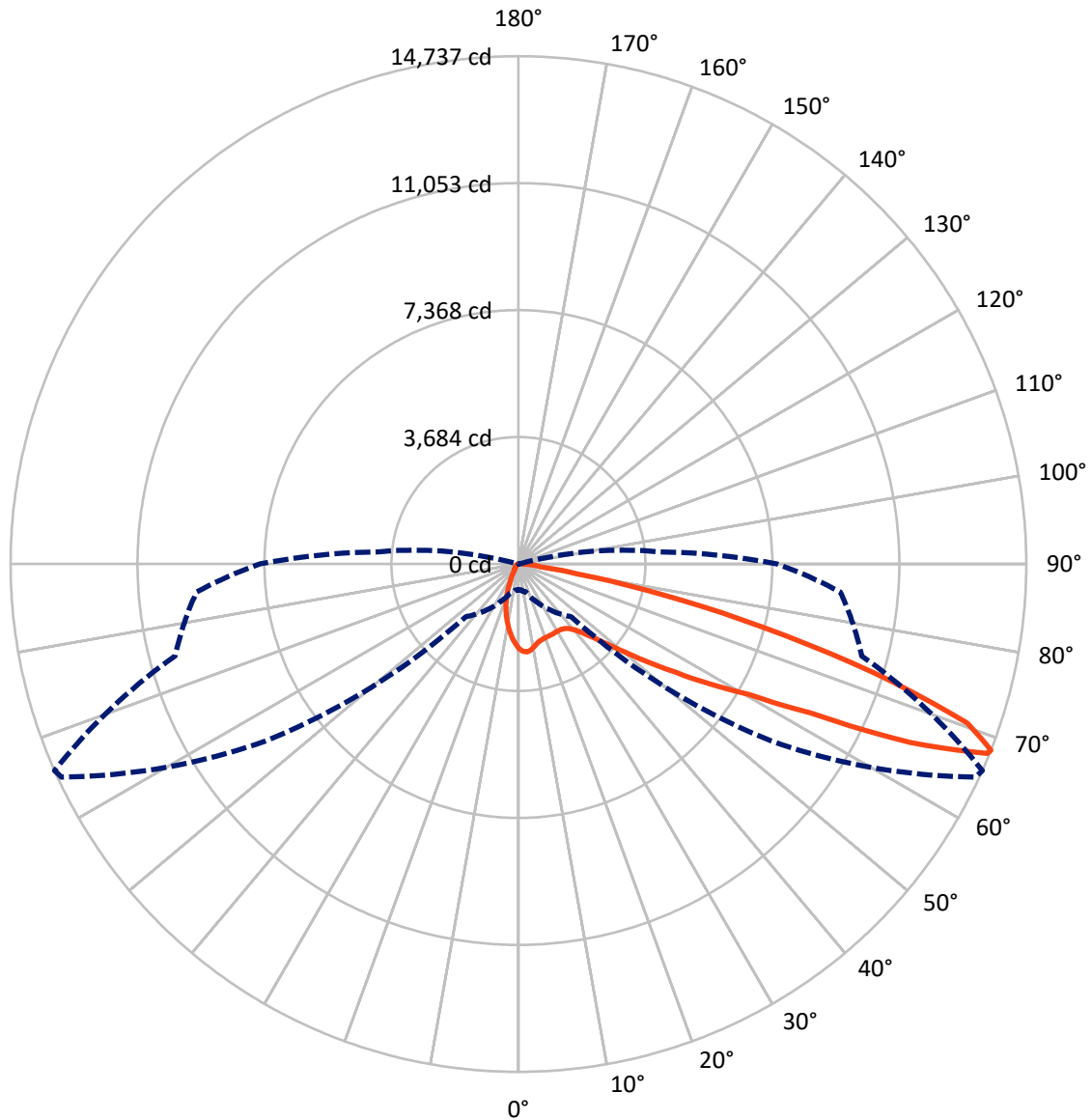


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1118.1	0.0	1118.1
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	9920.6	0.0	9920.6
	% Fixture	89.9	0.0	89.9
Total	Lumens	11038.7	0.0	11038.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.8
10°-20°	433.8	3.9
20°-30°	628.6	5.7
30°-40°	962.3	8.7
40°-50°	1645.9	14.9
50°-60°	2574.7	23.3
60°-70°	2964.6	26.9
70°-80°	1483.5	13.4
80°-90°	143.7	1.3
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°	11038.7	100.0
0°-180°	11038.7	100.0

Coefficient of Utilization



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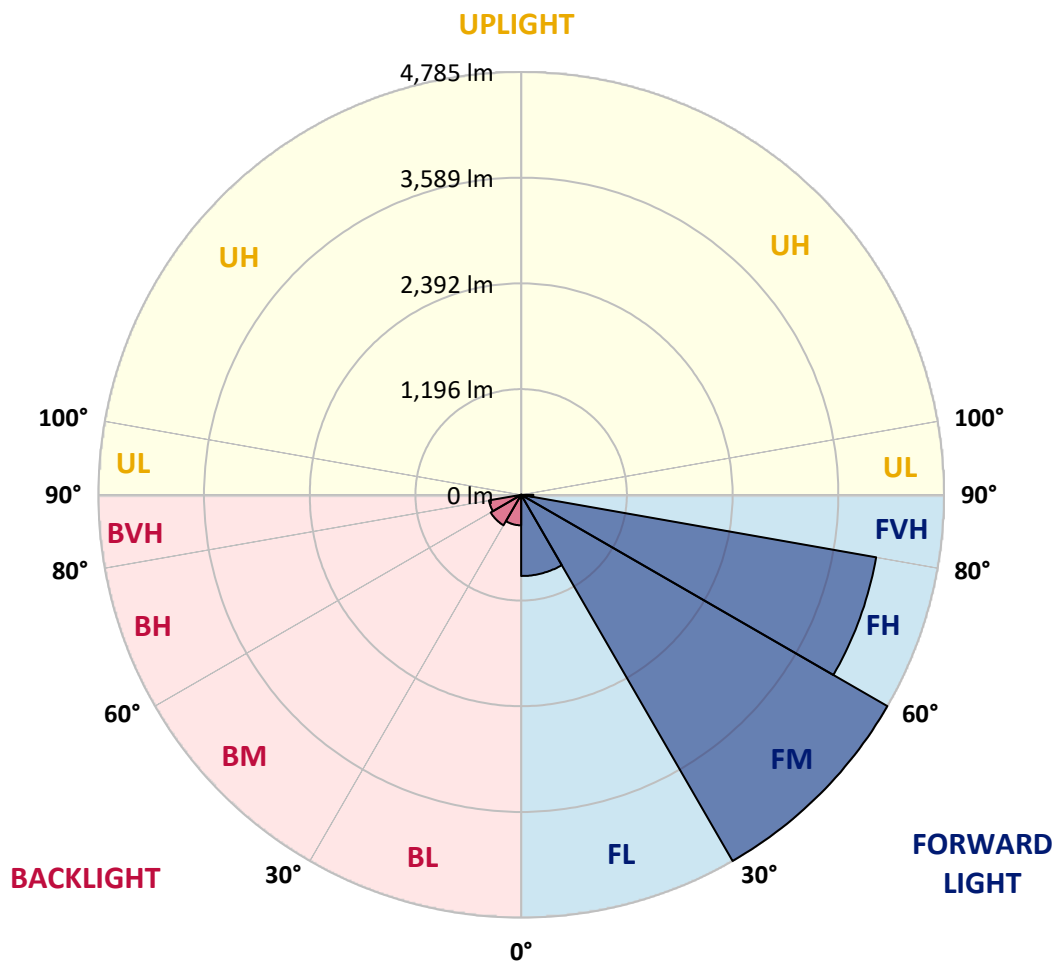
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.9	8.3			
FM (30°-60°)	4784.7	43.3			
FH (60°-80°)	4078.8	36.9			G2/5000
FVH (80°-90°)	138.2	1.3			G2/225
BL (0°-30°)	345.1	3.1	B1/500		
BM (30°-60°)	398.2	3.6	B1/1000		
BH (60°-80°)	369.4	3.3	B1/500		G1/500
BVH (80°-90°)	5.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3
2.5°	2586.7	2588.5	2587.6	2590.1	2588.5	2575.4	2561.6	2532.1	2534.7	2496.6	2454.2
5°	2404.8	2419.5	2434.2	2448.9	2484.4	2515.6	2552.9	2561.6	2561.6	2528.6	2466.2
7.5°	2219.3	2220.1	2236.6	2256.5	2304.2	2361.4	2448.0	2526.1	2527.8	2536.4	2468.0
10°	2079.8	2084.1	2095.3	2117.0	2164.7	2221.0	2318.1	2440.2	2449.8	2513.9	2450.7
12.5°	1971.4	1976.6	1988.7	2013.9	2057.3	2115.3	2217.6	2357.1	2370.1	2492.2	2445.5
15°	1888.3	1895.2	1904.7	1929.8	1976.6	2038.1	2149.9	2301.6	2317.2	2483.6	2461.9
17.5°	1853.6	1853.6	1852.7	1870.1	1916.8	1979.2	2096.2	2272.2	2292.0	2490.5	2489.7
20°	1868.3	1865.8	1847.6	1843.2	1871.8	1934.2	2053.8	2253.0	2275.6	2503.5	2523.4
22.5°	1946.3	1941.2	1900.3	1866.6	1857.9	1899.5	2025.1	2240.1	2267.0	2530.4	2568.5
25°	2111.8	2096.2	2039.9	1963.7	1895.2	1890.8	2005.2	2233.1	2261.7	2561.6	2617.9
27.5°	2326.7	2322.4	2232.3	2130.0	1998.3	1919.5	1999.2	2228.0	2256.5	2584.1	2657.7
30°	2593.6	2595.3	2491.4	2357.9	2158.6	2000.1	2018.2	2225.3	2254.8	2585.8	2675.1
32.5°	2869.2	2870.9	2784.3	2641.3	2377.8	2138.7	2072.0	2237.5	2264.3	2578.9	2674.2
35°	3134.3	3137.0	3085.0	2969.7	2670.7	2331.1	2173.4	2279.0	2298.2	2583.3	2672.5
37.5°	3469.7	3480.1	3416.0	3308.5	3038.2	2613.5	2338.9	2363.1	2378.8	2618.8	2685.5
40°	4041.7	4027.8	3844.0	3662.1	3436.8	2957.6	2578.0	2507.9	2513.1	2710.6	2734.9
42.5°	4708.0	4690.7	4376.2	4062.4	3846.7	3372.7	2883.9	2729.6	2728.8	2864.9	2842.4
45°	5281.7	5271.3	4940.2	4521.7	4300.8	3831.1	3260.9	3049.4	3039.1	3131.8	3038.2
47.5°	5689.0	5680.3	5429.9	5010.5	4825.9	4335.5	3731.4	3485.3	3463.6	3481.0	3356.2
50°	5728.8	5719.3	5631.8	5362.3	5439.4	5075.5	4312.9	4056.4	4028.7	4001.8	3837.2
52.5°	5356.3	5355.4	5401.3	5384.0	5869.3	6027.8	5026.1	4762.7	4729.7	4661.3	4497.5
55°	4594.5	4590.2	4764.4	5017.4	5859.7	7010.5	6113.6	5603.2	5559.8	5423.0	5208.0
57.5°	3357.1	3334.5	3698.5	4234.9	5448.1	7440.3	7840.7	6647.4	6575.5	6141.4	5810.4
60°	1853.6	1862.3	2330.2	2965.4	4473.2	7355.4	9430.0	7865.0	7676.0	6760.9	6427.3
62.5°	1039.0	1060.7	1409.0	1927.2	2851.9	6666.5	10282.7	9960.3	9505.4	7483.6	7207.2
65°	785.9	798.9	974.1	1487.1	1798.1	4658.6	10418.8	12890.1	12497.6	8579.0	8449.0
67.5°	740.0	750.4	836.3	1233.2	1637.8	2416.0	9394.5	14623.3	14672.7	10072.9	9410.8
68°	745.2	758.2	844.0	1186.3	1635.2	2161.2	8957.7	14632.0	14736.8	10313.8	9378.0
70°	684.6	688.0	892.5	1163.8	1585.0	1702.8	6480.2	13629.3	13817.4	10600.6	8513.1
72.5°	261.7	262.6	400.4	1007.8	1660.4	1712.3	3264.3	10772.3	10781.8	9225.5	6637.0
75°	136.1	114.4	125.6	315.5	1585.8	1669.0	1637.8	7355.4	7309.5	6239.3	4066.7
77.5°	93.6	79.7	84.1	109.1	659.5	1668.1	1182.8	4229.7	4220.2	2654.3	1160.3
80°	52.9	45.9	50.2	91.9	231.4	1565.8	1102.2	1818.1	1713.2	466.3	188.0
82.5°	26.9	22.5	26.9	77.1	143.8	985.3	1072.0	713.2	635.2	110.9	122.1
85°	7.0	7.0	13.0	53.7	89.3	323.3	961.1	514.7	462.8	48.5	86.6
87.5°	1.7	0.8	5.2	19.9	32.0	70.2	533.0	286.8	246.9	25.2	50.2
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°	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3	2459.3
2.5°	2436.8	2412.5	2364.9	2311.2	2273.0	2231.4	2207.1	2177.7	2155.2	2135.2	2149.9
5°	2428.1	2381.3	2275.6	2156.9	2057.3	1961.9	1890.8	1823.2	1772.2	1740.0	1753.0
7.5°	2405.6	2336.2	2164.7	1979.2	1816.4	1662.9	1538.1	1426.4	1339.8	1292.9	1307.6
10°	2367.4	2269.5	2039.0	1781.7	1553.8	1337.1	1151.6	985.3	859.6	800.7	814.6
12.5°	2339.7	2210.6	1909.0	1591.0	1291.2	983.6	737.4	546.8	448.9	389.9	395.2
15°	2327.6	2164.7	1787.7	1390.0	1004.3	631.8	398.6	288.6	254.8	242.6	243.5
17.5°	2329.4	2128.2	1672.4	1181.1	714.9	363.0	244.4	220.1	214.9	212.3	212.3
20°	2333.7	2091.9	1552.8	963.6	457.6	233.9	203.7	195.8	193.2	189.8	190.7
22.5°	2346.6	2064.1	1432.4	745.2	281.6	190.7	180.2	173.3	169.0	163.8	164.7
25°	2366.6	2043.3	1313.7	536.4	198.5	166.3	156.8	147.3	139.5	133.5	134.3
27.5°	2378.8	2013.9	1187.2	365.7	164.7	145.6	132.6	119.6	110.9	105.7	104.9
30°	2370.1	1966.2	1043.3	240.1	145.6	125.6	110.1	95.3	86.6	82.3	82.3
32.5°	2346.6	1904.7	884.8	175.0	129.1	108.3	89.3	76.2	70.2	67.6	68.4
35°	2319.7	1840.6	715.8	148.2	116.1	91.9	72.8	62.4	59.8	58.9	58.9
37.5°	2305.0	1785.2	553.7	134.3	104.0	76.2	59.8	53.7	51.1	51.1	51.1
40°	2321.5	1742.7	409.9	123.9	91.9	63.2	50.2	45.9	45.1	45.1	45.1
42.5°	2391.8	1728.0	299.8	115.3	79.7	52.9	43.4	39.9	39.0	39.9	39.9
45°	2528.6	1760.0	227.0	106.6	68.4	43.4	37.2	34.7	34.7	35.5	35.5
47.5°	2760.8	1842.3	186.3	97.9	57.2	36.4	32.0	30.3	30.3	31.2	31.2
50°	3121.3	1994.9	167.3	88.4	47.7	31.2	26.9	26.0	26.0	26.9	27.7
52.5°	3669.0	2285.2	157.7	78.9	39.0	26.0	22.5	21.7	22.5	23.4	23.4
55°	4278.2	2656.9	146.5	69.4	32.9	21.7	18.2	18.2	19.0	20.8	20.8
57.5°	4845.8	3015.7	136.1	57.2	28.6	17.3	14.7	14.7	16.5	18.2	18.2
60°	5445.5	3367.5	122.1	45.9	24.2	13.9	12.2	12.2	14.7	16.5	17.3
62.5°	6186.4	3776.5	104.0	36.4	19.0	10.4	8.7	11.3	13.9	16.5	16.5
65°	7257.4	4285.1	81.4	28.6	14.7	7.8	7.0	10.4	13.0	15.5	16.5
67.5°	7646.6	4220.2	61.5	23.4	11.3	6.0	6.0	9.5	13.0	15.5	15.5
68°	7504.5	4078.1	58.9	22.5	10.4	6.0	6.0	9.5	13.0	15.5	15.5
70°	6539.1	3333.7	48.5	17.3	8.7	5.2	5.2	8.7	13.0	14.7	15.5
72.5°	4896.0	2214.9	41.6	11.3	7.8	5.2	4.3	8.7	12.2	14.7	14.7
75°	2808.5	919.4	35.5	8.7	7.0	4.3	4.3	7.8	12.2	14.7	14.7
77.5°	793.8	214.9	28.6	7.0	6.0	4.3	3.5	7.8	11.3	13.9	13.9
80°	145.6	64.1	22.5	6.0	5.2	4.3	3.5	7.8	11.3	13.9	13.9
82.5°	96.2	30.3	16.5	6.0	5.2	4.3	3.5	7.0	10.4	13.0	13.0
85°	71.9	21.7	10.4	6.0	5.2	4.3	3.5	7.0	10.4	13.0	13.0
87.5°	39.9	9.5	7.8	7.0	6.0	4.3	3.5	6.0	9.5	12.2	12.2
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)