

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: P198537

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198537
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-SL2-7030-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 9552 lumens
Efficiency: N/A
Efficacy: 74.6 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

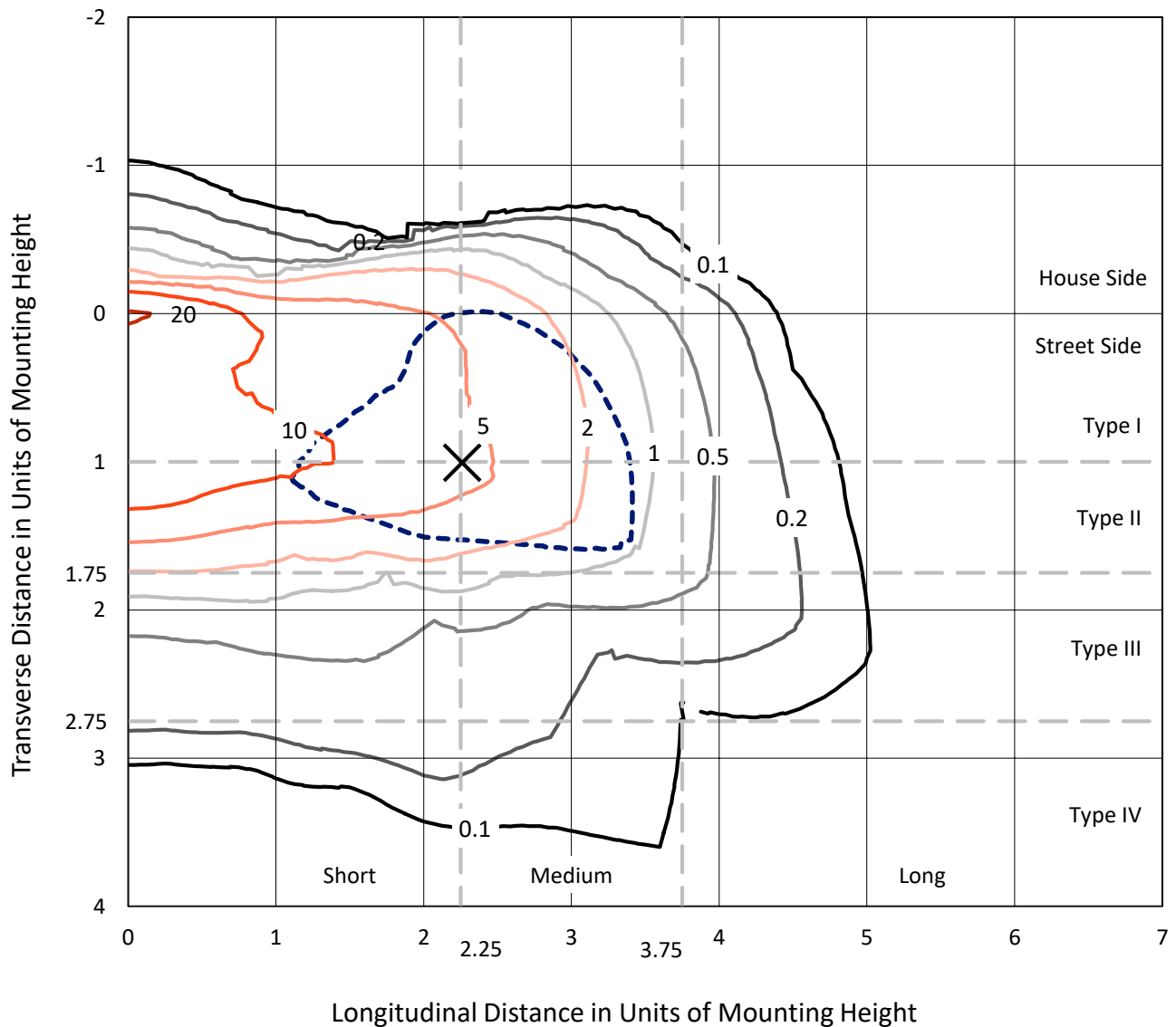


REPORT NUMBER: P198537

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

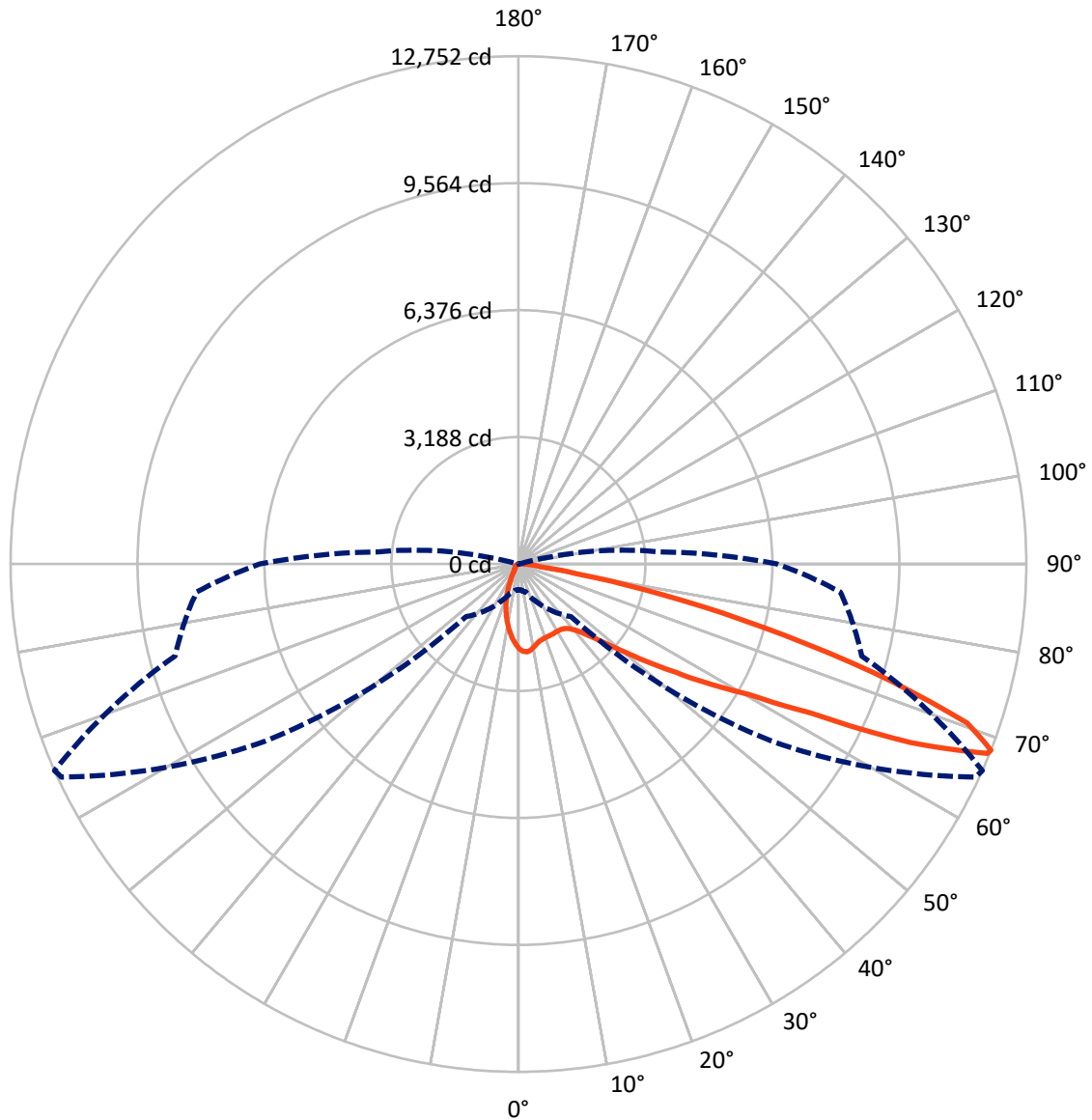


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198537

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198537

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-1200-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.5	0.0	967.5
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	8584.5	0.0	8584.5
	% Fixture	89.9	0.0	89.9
Total	Lumens	9552.0	0.0	9552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.8
10°-20°	375.4	3.9
20°-30°	543.9	5.7
30°-40°	832.7	8.7
40°-50°	1424.2	14.9
50°-60°	2227.9	23.3
60°-70°	2565.3	26.9
70°-80°	1283.7	13.4
80°-90°	124.3	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°	9552.0	100.0
0°-180°	9552.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198537

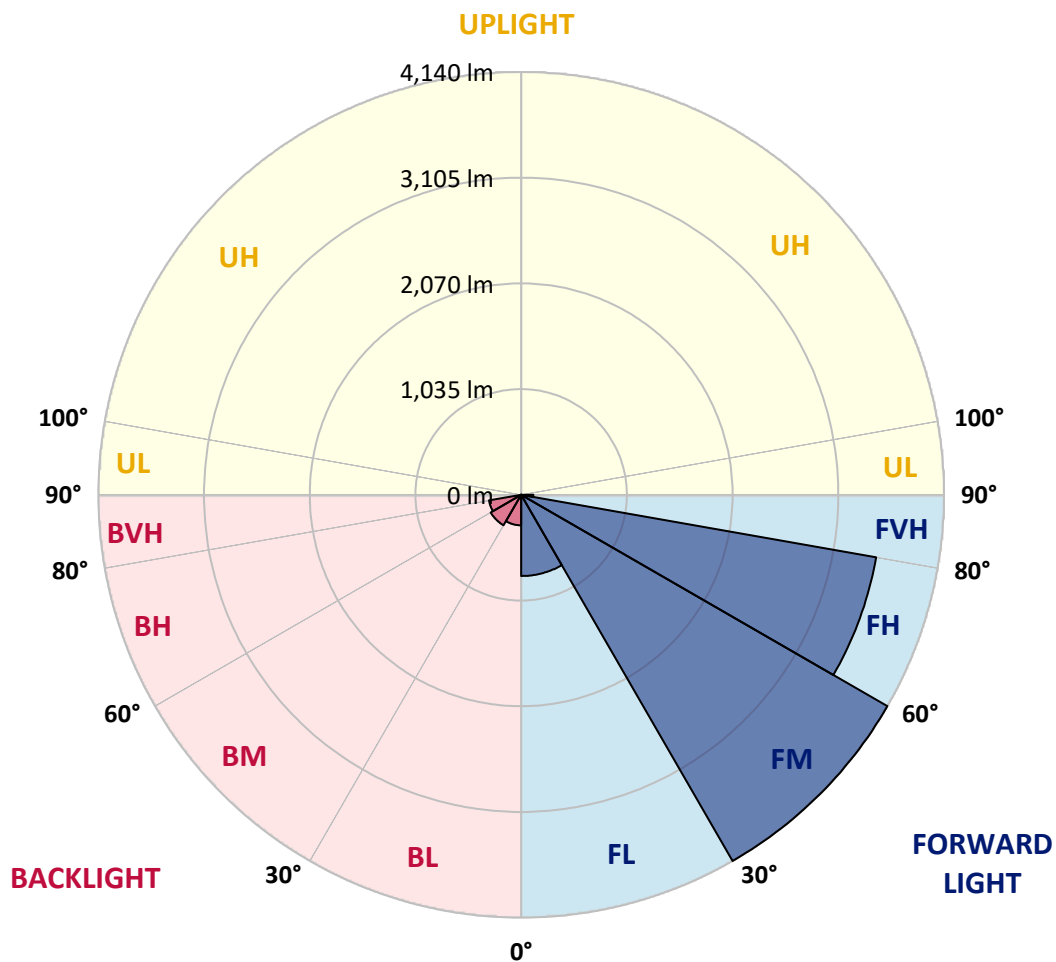
CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.1	8.3			
FM (30°-60°)	4140.3	43.3			
FH (60°-80°)	3529.4	36.9			G2/5000
FVH (80°-90°)	119.6	1.3			G2/225
BL (0°-30°)	298.6	3.1	B1/500		
BM (30°-60°)	344.5	3.6	B1/1000		
BH (60°-80°)	319.6	3.3	B1/500		G1/500
BVH (80°-90°)	4.7	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





REPORT NUMBER: P198537

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1
2.5°	2238.3	2239.8	2239.1	2241.3	2239.8	2228.6	2216.6	2191.1	2193.3	2160.3	2123.6
5°	2080.9	2093.6	2106.3	2119.1	2149.8	2176.8	2209.1	2216.6	2216.6	2188.1	2134.1
7.5°	1920.4	1921.1	1935.4	1952.6	1993.9	2043.4	2118.3	2185.8	2187.3	2194.8	2135.6
10°	1799.7	1803.4	1813.2	1831.9	1873.1	1921.9	2005.9	2111.6	2119.8	2175.3	2120.6
12.5°	1705.9	1710.4	1720.9	1742.7	1780.2	1830.4	1918.9	2039.6	2050.9	2156.6	2116.1
15°	1633.9	1639.9	1648.2	1669.9	1710.4	1763.7	1860.4	1991.6	2005.1	2149.1	2130.3
17.5°	1603.9	1603.9	1603.2	1618.2	1658.7	1712.7	1813.9	1966.1	1983.4	2155.1	2154.3
20°	1616.7	1614.4	1598.7	1594.9	1619.7	1673.7	1777.2	1949.6	1969.1	2166.3	2183.6
22.5°	1684.2	1679.7	1644.4	1615.2	1607.7	1643.7	1752.4	1938.4	1961.6	2189.6	2222.6
25°	1827.4	1813.9	1765.2	1699.2	1639.9	1636.2	1735.2	1932.4	1957.1	2216.6	2265.3
27.5°	2013.4	2009.6	1931.6	1843.1	1729.2	1660.9	1729.9	1927.9	1952.6	2236.1	2299.8
30°	2244.3	2245.8	2155.8	2040.4	1867.9	1730.7	1746.4	1925.6	1951.1	2237.6	2314.8
32.5°	2482.8	2484.3	2409.3	2285.6	2057.6	1850.6	1792.9	1936.1	1959.4	2231.6	2314.1
35°	2712.2	2714.5	2669.5	2569.8	2311.1	2017.1	1880.6	1972.1	1988.6	2235.3	2312.6
37.5°	3002.4	3011.4	2955.9	2863.0	2629.0	2261.6	2023.9	2044.9	2058.4	2266.1	2323.8
40°	3497.3	3485.3	3326.4	3168.9	2973.9	2559.3	2230.8	2170.1	2174.6	2345.6	2366.5
42.5°	4074.0	4059.0	3786.8	3515.3	3328.6	2918.4	2495.5	2362.1	2361.3	2479.0	2459.5
45°	4570.4	4561.4	4274.9	3912.8	3721.5	3315.1	2821.7	2638.7	2629.7	2710.0	2629.0
47.5°	4922.8	4915.3	4698.6	4335.7	4176.0	3751.5	3228.9	3015.9	2997.2	3012.2	2904.2
50°	4957.3	4949.1	4873.3	4640.1	4706.9	4391.9	3732.0	3510.1	3486.1	3462.8	3320.4
52.5°	4634.9	4634.1	4673.9	4658.9	5078.8	5216.0	4349.2	4121.2	4092.7	4033.5	3891.8
55°	3975.7	3972.0	4122.7	4341.7	5070.5	6066.3	5290.2	4848.6	4811.1	4692.6	4506.6
57.5°	2904.9	2885.5	3200.4	3664.6	4714.4	6438.3	6784.7	5752.2	5689.9	5314.2	5027.8
60°	1603.9	1611.4	2016.4	2566.0	3870.8	6364.8	8159.9	6805.7	6642.2	5850.4	5561.7
62.5°	899.1	917.8	1219.3	1667.7	2467.8	5768.7	8897.8	8618.9	8225.2	6475.8	6236.6
65°	680.1	691.4	842.8	1286.8	1556.0	4031.2	9015.5	11154.1	10814.4	7423.6	7311.1
67.5°	640.4	649.4	723.6	1067.0	1417.2	2090.6	8129.2	12653.8	12696.6	8716.3	8143.5
68°	644.9	656.1	730.4	1026.6	1415.0	1870.1	7751.3	12661.3	12752.1	8924.8	8115.0
70°	592.4	595.4	772.4	1007.1	1371.5	1473.5	5607.4	11793.8	11956.5	9173.0	7366.6
72.5°	226.5	227.2	346.4	872.1	1436.7	1481.7	2824.7	9321.5	9329.7	7983.0	5743.2
75°	117.7	99.0	108.7	272.9	1372.2	1444.2	1417.2	6364.8	6325.0	5399.0	3519.1
77.5°	81.0	69.0	72.7	94.5	570.6	1443.5	1023.6	3660.1	3651.8	2296.8	1004.1
80°	45.7	39.7	43.5	79.5	200.2	1355.0	953.8	1573.2	1482.5	403.4	162.7
82.5°	23.2	19.5	23.2	66.7	124.5	852.6	927.6	617.1	549.6	96.0	105.7
85°	6.0	6.0	11.2	46.5	77.2	279.7	831.6	445.4	400.4	42.0	75.0
87.5°	1.5	0.7	4.5	17.2	27.7	60.7	461.2	248.2	213.7	21.7	43.5
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: P198537

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1	2128.1
2.5°	2108.6	2087.6	2046.4	1999.9	1966.9	1930.9	1909.9	1884.4	1864.9	1847.6	1860.4
5°	2101.1	2060.6	1969.1	1866.4	1780.2	1697.7	1636.2	1577.7	1533.5	1505.7	1517.0
7.5°	2081.6	2021.6	1873.1	1712.7	1571.7	1439.0	1331.0	1234.3	1159.3	1118.8	1131.5
10°	2048.6	1963.9	1764.4	1541.7	1344.5	1157.0	996.6	852.6	743.9	692.9	704.9
12.5°	2024.6	1912.9	1651.9	1376.7	1117.3	851.1	638.1	473.2	388.4	337.4	341.9
15°	2014.1	1873.1	1547.0	1202.8	869.1	546.6	344.9	249.7	220.5	210.0	210.7
17.5°	2015.6	1841.6	1447.2	1022.1	618.6	314.2	211.5	190.5	186.0	183.7	183.7
20°	2019.4	1810.2	1343.7	833.8	395.9	202.5	176.2	169.5	167.2	164.2	165.0
22.5°	2030.6	1786.2	1239.5	644.9	243.7	165.0	156.0	150.0	146.2	141.7	142.5
25°	2047.9	1768.2	1136.8	464.2	171.7	144.0	135.7	127.5	120.7	115.5	116.2
27.5°	2058.4	1742.7	1027.3	316.4	142.5	126.0	114.7	103.5	96.0	91.5	90.7
30°	2050.9	1701.4	902.8	207.7	126.0	108.7	95.2	82.5	75.0	71.2	71.2
32.5°	2030.6	1648.2	765.6	151.5	111.7	93.7	77.2	66.0	60.7	58.5	59.2
35°	2007.4	1592.7	619.4	128.2	100.5	79.5	63.0	54.0	51.7	51.0	51.0
37.5°	1994.6	1544.7	479.2	116.2	90.0	66.0	51.7	46.5	44.2	44.2	44.2
40°	2008.9	1508.0	354.7	107.2	79.5	54.7	43.5	39.7	39.0	39.0	39.0
42.5°	2069.6	1495.2	259.5	99.7	69.0	45.7	37.5	34.5	33.7	34.5	34.5
45°	2188.1	1523.0	196.5	92.2	59.2	37.5	32.2	30.0	30.0	30.7	30.7
47.5°	2389.0	1594.2	161.2	84.7	49.5	31.5	27.7	26.2	26.2	27.0	27.0
50°	2701.0	1726.2	144.7	76.5	41.2	27.0	23.2	22.5	22.5	23.2	24.0
52.5°	3174.9	1977.4	136.5	68.2	33.7	22.5	19.5	18.7	19.5	20.2	20.2
55°	3702.0	2299.1	126.7	60.0	28.5	18.7	15.7	15.7	16.5	18.0	18.0
57.5°	4193.2	2609.5	117.7	49.5	24.7	15.0	12.7	12.7	14.2	15.7	15.7
60°	4712.1	2913.9	105.7	39.7	21.0	12.0	10.5	10.5	12.7	14.2	15.0
62.5°	5353.2	3267.9	90.0	31.5	16.5	9.0	7.5	9.7	12.0	14.2	14.2
65°	6280.1	3708.0	70.5	24.7	12.7	6.7	6.0	9.0	11.2	13.5	14.2
67.5°	6616.7	3651.8	53.2	20.2	9.7	5.2	5.2	8.2	11.2	13.5	13.5
68°	6493.8	3528.8	51.0	19.5	9.0	5.2	5.2	8.2	11.2	13.5	13.5
70°	5658.4	2884.7	42.0	15.0	7.5	4.5	4.5	7.5	11.2	12.7	13.5
72.5°	4236.7	1916.6	36.0	9.7	6.7	4.5	3.7	7.5	10.5	12.7	12.7
75°	2430.3	795.6	30.7	7.5	6.0	3.7	3.7	6.7	10.5	12.7	12.7
77.5°	686.9	186.0	24.7	6.0	5.2	3.7	3.0	6.7	9.7	12.0	12.0
80°	126.0	55.5	19.5	5.2	4.5	3.7	3.0	6.7	9.7	12.0	12.0
82.5°	83.2	26.2	14.2	5.2	4.5	3.7	3.0	6.0	9.0	11.2	11.2
85°	62.2	18.7	9.0	5.2	4.5	3.7	3.0	6.0	9.0	11.2	11.2
87.5°	34.5	8.2	6.7	6.0	5.2	3.7	3.0	5.2	8.2	10.5	10.5
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)