

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: P271311

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271311
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-SL2-7027-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 9375.1 lumens
Efficiency: N/A
Efficacy: 73.2 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

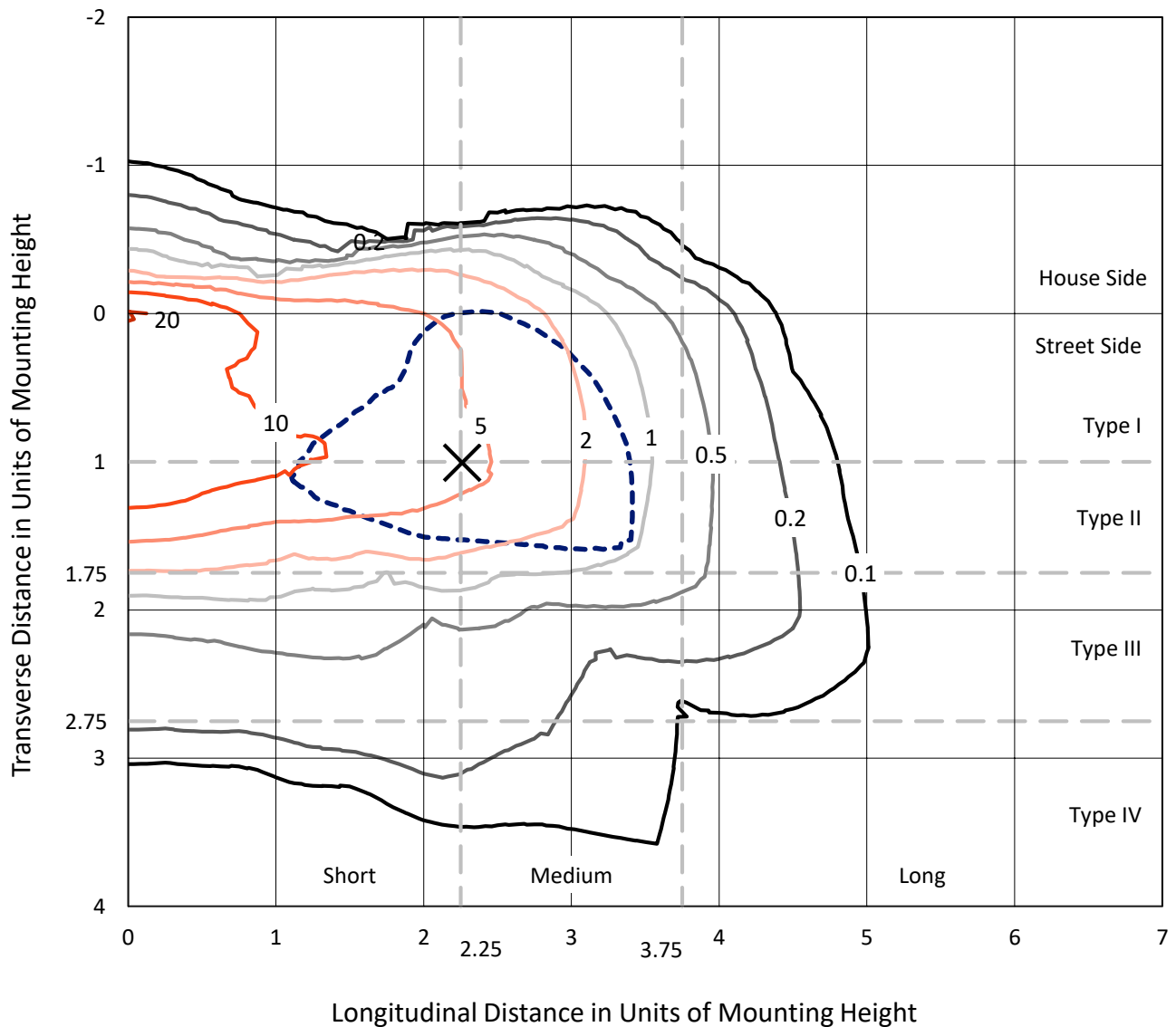


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

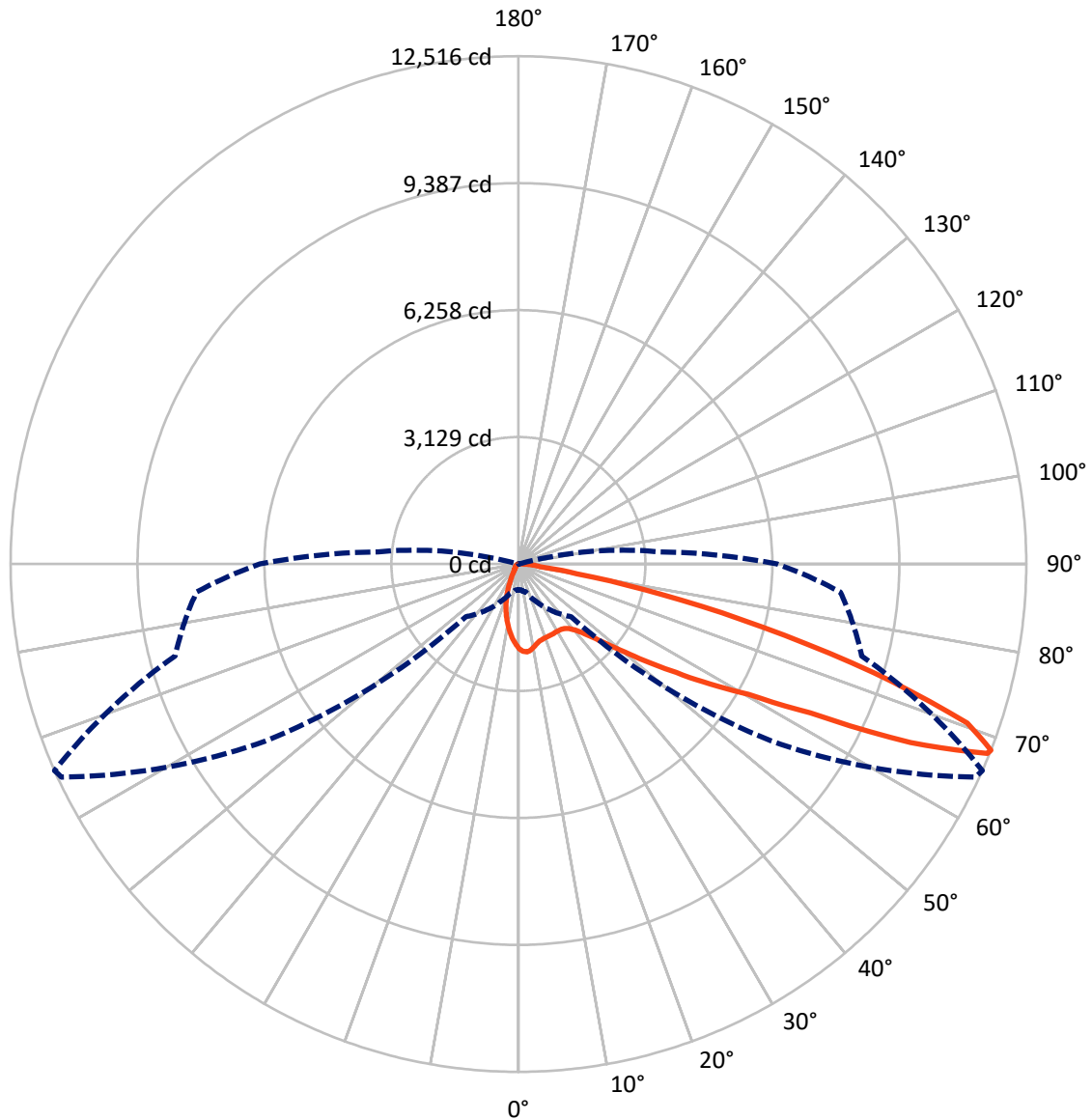


Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Medium - Semi-Cutoff

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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	949.6	0.0	949.6
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	8425.5	0.0	8425.5
	% Fixture	89.9	0.0	89.9
Total	Lumens	9375.1	0.0	9375.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.8
10°-20°	368.4	3.9
20°-30°	533.9	5.7
30°-40°	817.3	8.7
40°-50°	1397.9	14.9
50°-60°	2186.6	23.3
60°-70°	2517.8	26.9
70°-80°	1260.0	13.4
80°-90°	122.0	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°	9375.1	100.0
0°-180°	9375.1	100.0

Coefficient of Utilization



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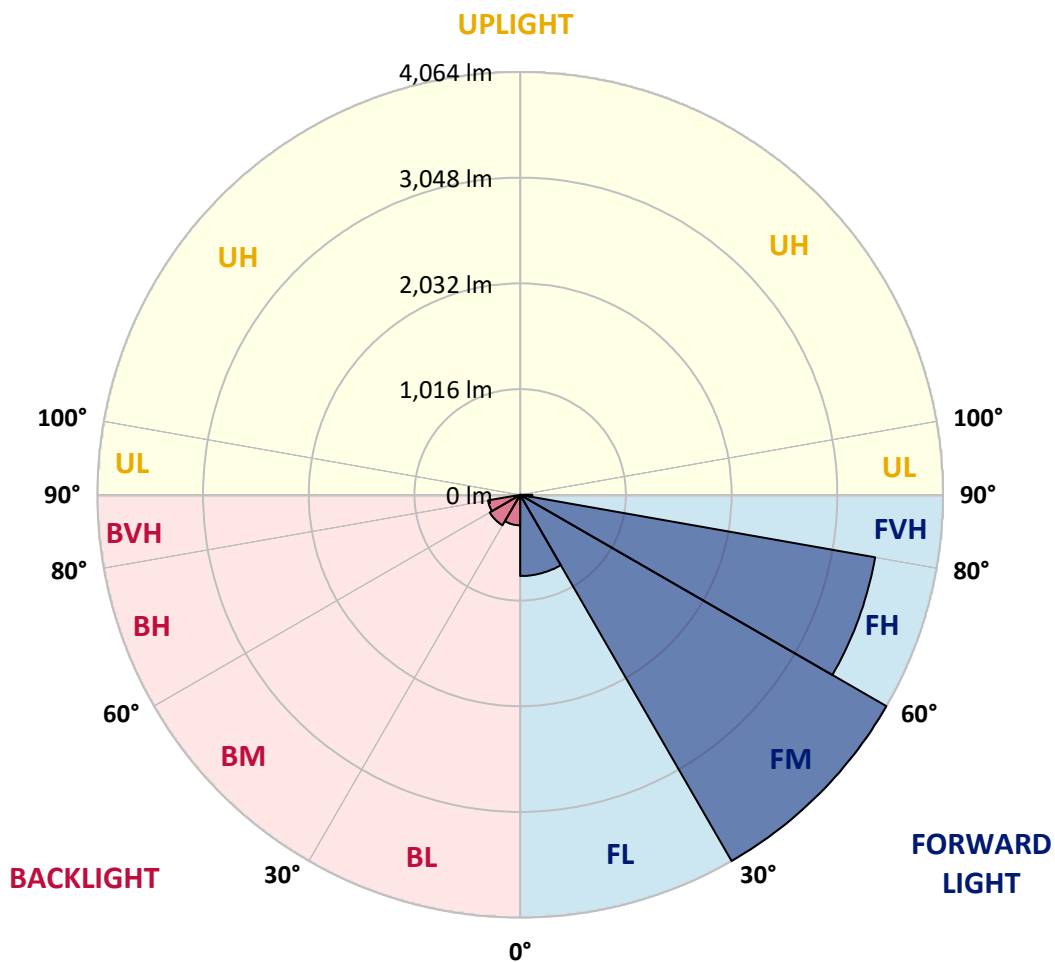
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.4	8.3			
FM (30°-60°)	4063.6	43.3			
FH (60°-80°)	3464.1	36.9			G2/5000
FVH (80°-90°)	117.4	1.3			G2/225
BL (0°-30°)	293.1	3.1	B1/500		
BM (30°-60°)	338.1	3.6	B1/1000		
BH (60°-80°)	313.7	3.3	B1/500		G1/500
BVH (80°-90°)	4.6	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°	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6
2.5°	2196.8	2198.3	2197.7	2199.8	2198.3	2187.4	2175.5	2150.5	2152.7	2120.3	2084.2
5°	2042.3	2054.9	2067.3	2079.8	2109.9	2136.4	2168.1	2175.5	2175.5	2147.6	2094.6
7.5°	1884.9	1885.5	1899.6	1916.4	1957.0	2005.6	2079.0	2145.3	2146.8	2154.1	2096.0
10°	1766.3	1770.0	1779.6	1798.0	1838.4	1886.4	1968.7	2072.5	2080.6	2135.0	2081.4
12.5°	1674.4	1678.8	1689.1	1710.5	1747.3	1796.5	1883.3	2001.9	2012.9	2116.6	2076.9
15°	1603.7	1609.6	1617.7	1639.0	1678.8	1731.0	1826.0	1954.7	1967.9	2109.3	2090.8
17.5°	1574.2	1574.2	1573.6	1588.3	1628.0	1681.0	1780.4	1929.6	1946.6	2115.1	2114.4
20°	1586.8	1584.5	1569.1	1565.3	1589.7	1642.7	1744.2	1913.5	1932.7	2126.2	2143.1
22.5°	1653.1	1648.6	1614.0	1585.2	1578.0	1613.3	1720.0	1902.5	1925.2	2149.0	2181.4
25°	1793.6	1780.4	1732.6	1667.8	1609.6	1605.9	1703.0	1896.6	1920.8	2175.5	2223.3
27.5°	1976.1	1972.4	1895.9	1808.9	1697.2	1630.2	1697.8	1892.2	1916.4	2194.6	2257.3
30°	2202.7	2204.3	2115.9	2002.6	1833.4	1698.7	1714.1	1889.9	1914.9	2196.1	2272.0
32.5°	2436.8	2438.3	2364.7	2243.2	2019.5	1816.4	1759.7	1900.3	1923.1	2190.2	2271.3
35°	2661.9	2664.3	2620.0	2522.3	2268.3	1979.8	1845.7	1935.6	1951.7	2193.9	2269.7
37.5°	2946.8	2955.7	2901.2	2810.0	2580.3	2219.7	1986.4	2007.1	2020.3	2224.2	2280.7
40°	3432.6	3420.7	3264.8	3110.2	2918.9	2511.9	2189.4	2129.9	2134.4	2302.1	2322.7
42.5°	3998.5	3983.9	3716.6	3450.2	3267.0	2864.3	2449.3	2318.3	2317.5	2433.1	2413.9
45°	4485.7	4477.0	4195.8	3840.3	3652.6	3253.8	2769.5	2589.9	2581.0	2659.8	2580.3
47.5°	4831.7	4824.3	4611.5	4255.5	4098.6	3682.1	3169.1	2960.1	2941.7	2956.4	2850.4
50°	4865.5	4857.4	4783.0	4554.1	4619.8	4310.5	3662.8	3445.1	3421.6	3398.6	3259.0
52.5°	4549.0	4548.3	4587.4	4572.6	4984.8	5119.4	4268.7	4044.9	4017.0	3958.8	3819.8
55°	3902.1	3898.5	4046.3	4261.3	4976.6	5954.0	5192.3	4758.9	4722.0	4605.7	4423.2
57.5°	2851.1	2832.0	3141.2	3596.8	4627.1	6319.0	6659.0	5645.7	5584.6	5215.7	4934.7
60°	1574.2	1581.6	1979.1	2518.5	3799.1	6247.0	8008.7	6679.6	6519.2	5742.1	5458.7
62.5°	882.5	900.8	1196.7	1636.8	2422.1	5661.8	8733.1	8459.2	8072.9	6355.9	6121.1
65°	667.5	678.6	827.2	1262.9	1527.2	3956.6	8848.6	10947.6	10614.2	7286.2	7175.8
67.5°	628.5	637.3	710.2	1047.2	1390.9	2051.9	7978.7	12419.4	12461.5	8554.9	7992.7
68°	632.9	643.9	716.8	1007.5	1388.8	1835.4	7607.7	12426.9	12515.9	8759.6	7964.7
70°	581.5	584.3	758.1	988.5	1346.1	1446.2	5503.6	11575.4	11735.1	9003.2	7230.2
72.5°	222.3	223.0	340.0	855.9	1410.1	1454.3	2772.3	9148.9	9157.0	7835.1	5636.9
75°	115.5	97.1	106.7	267.9	1346.7	1417.4	1390.9	6247.0	6207.8	5299.0	3454.0
77.5°	79.5	67.7	71.3	92.7	560.1	1416.7	1004.7	3592.3	3584.1	2254.2	985.5
80°	44.8	38.9	42.7	78.1	196.5	1329.9	936.2	1544.0	1455.1	396.0	159.7
82.5°	22.7	19.1	22.7	65.4	122.2	836.9	910.4	605.6	539.4	94.2	103.8
85°	5.8	5.8	11.0	45.6	75.7	274.5	816.2	437.1	393.0	41.2	73.7
87.5°	1.4	0.7	4.4	16.9	27.2	59.6	452.7	243.6	209.8	21.3	42.7
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°	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6	2088.6
2.5°	2069.5	2048.9	2008.5	1962.8	1930.5	1895.2	1874.6	1849.5	1830.3	1813.4	1826.0
5°	2062.1	2022.4	1932.7	1831.9	1747.3	1666.3	1605.9	1548.5	1505.1	1477.8	1488.9
7.5°	2043.0	1984.1	1838.4	1681.0	1542.6	1412.3	1306.3	1211.5	1137.9	1098.1	1110.6
10°	2010.6	1927.6	1731.8	1513.1	1319.6	1135.5	978.2	836.9	730.1	680.0	691.9
12.5°	1987.1	1877.5	1621.4	1351.2	1096.7	835.3	626.3	464.5	381.2	331.1	335.5
15°	1976.8	1838.4	1518.3	1180.6	853.0	536.5	338.5	245.1	216.4	206.2	206.8
17.5°	1978.2	1807.5	1420.4	1003.1	607.2	308.4	207.6	186.9	182.5	180.3	180.3
20°	1982.0	1776.7	1318.8	818.4	388.5	198.7	173.0	166.4	164.1	161.2	162.0
22.5°	1993.0	1753.1	1216.6	632.9	239.2	162.0	153.2	147.2	143.5	139.1	139.9
25°	2010.0	1735.4	1115.8	455.6	168.5	141.4	133.2	125.1	118.4	113.4	114.1
27.5°	2020.3	1710.5	1008.3	310.5	139.9	123.6	112.6	101.6	94.2	89.8	89.0
30°	2012.9	1669.9	886.1	203.8	123.6	106.7	93.5	80.9	73.7	69.9	69.9
32.5°	1993.0	1617.7	751.4	148.7	109.7	91.9	75.7	64.8	59.6	57.4	58.1
35°	1970.3	1563.2	608.0	125.9	98.6	78.1	61.9	53.0	50.8	50.0	50.0
37.5°	1957.6	1516.1	470.4	114.1	88.4	64.8	50.8	45.6	43.4	43.4	43.4
40°	1971.7	1480.0	348.2	105.2	78.1	53.7	42.7	38.9	38.3	38.3	38.3
42.5°	2031.2	1467.6	254.7	97.8	67.7	44.8	36.8	33.9	33.1	33.9	33.9
45°	2147.6	1494.8	192.9	90.5	58.1	36.8	31.6	29.5	29.5	30.2	30.2
47.5°	2344.8	1564.7	158.2	83.2	48.6	30.9	27.2	25.7	25.7	26.5	26.5
50°	2651.0	1694.3	142.0	75.1	40.5	26.5	22.7	22.1	22.1	22.7	23.5
52.5°	3116.1	1940.8	133.9	67.0	33.1	22.1	19.1	18.3	19.1	19.9	19.9
55°	3633.5	2256.5	124.3	58.8	27.9	18.3	15.5	15.5	16.2	17.6	17.6
57.5°	4115.6	2561.2	115.5	48.6	24.3	14.7	12.4	12.4	14.0	15.5	15.5
60°	4624.8	2859.9	103.8	38.9	20.7	11.8	10.3	10.3	12.4	14.0	14.7
62.5°	5254.0	3207.4	88.4	30.9	16.2	8.9	7.4	9.5	11.8	14.0	14.0
65°	6163.8	3639.4	69.2	24.3	12.4	6.6	5.8	8.9	11.0	13.2	14.0
67.5°	6494.1	3584.1	52.2	19.9	9.5	5.1	5.1	8.1	11.0	13.2	13.2
68°	6373.6	3463.4	50.0	19.1	8.9	5.1	5.1	8.1	11.0	13.2	13.2
70°	5553.6	2831.3	41.2	14.7	7.4	4.4	4.4	7.4	11.0	12.4	13.2
72.5°	4158.3	1881.1	35.4	9.5	6.6	4.4	3.7	7.4	10.3	12.4	12.4
75°	2385.3	780.8	30.2	7.4	5.8	3.7	3.7	6.6	10.3	12.4	12.4
77.5°	674.2	182.5	24.3	5.8	5.1	3.7	3.0	6.6	9.5	11.8	11.8
80°	123.6	54.4	19.1	5.1	4.4	3.7	3.0	6.6	9.5	11.8	11.8
82.5°	81.7	25.7	14.0	5.1	4.4	3.7	3.0	5.8	8.9	11.0	11.0
85°	61.1	18.3	8.9	5.1	4.4	3.7	3.0	5.8	8.9	11.0	11.0
87.5°	33.9	8.1	6.6	5.8	5.1	3.7	3.0	5.1	8.1	10.3	10.3
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)