

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: P198877

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198877
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-SL3-7050-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 9731 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

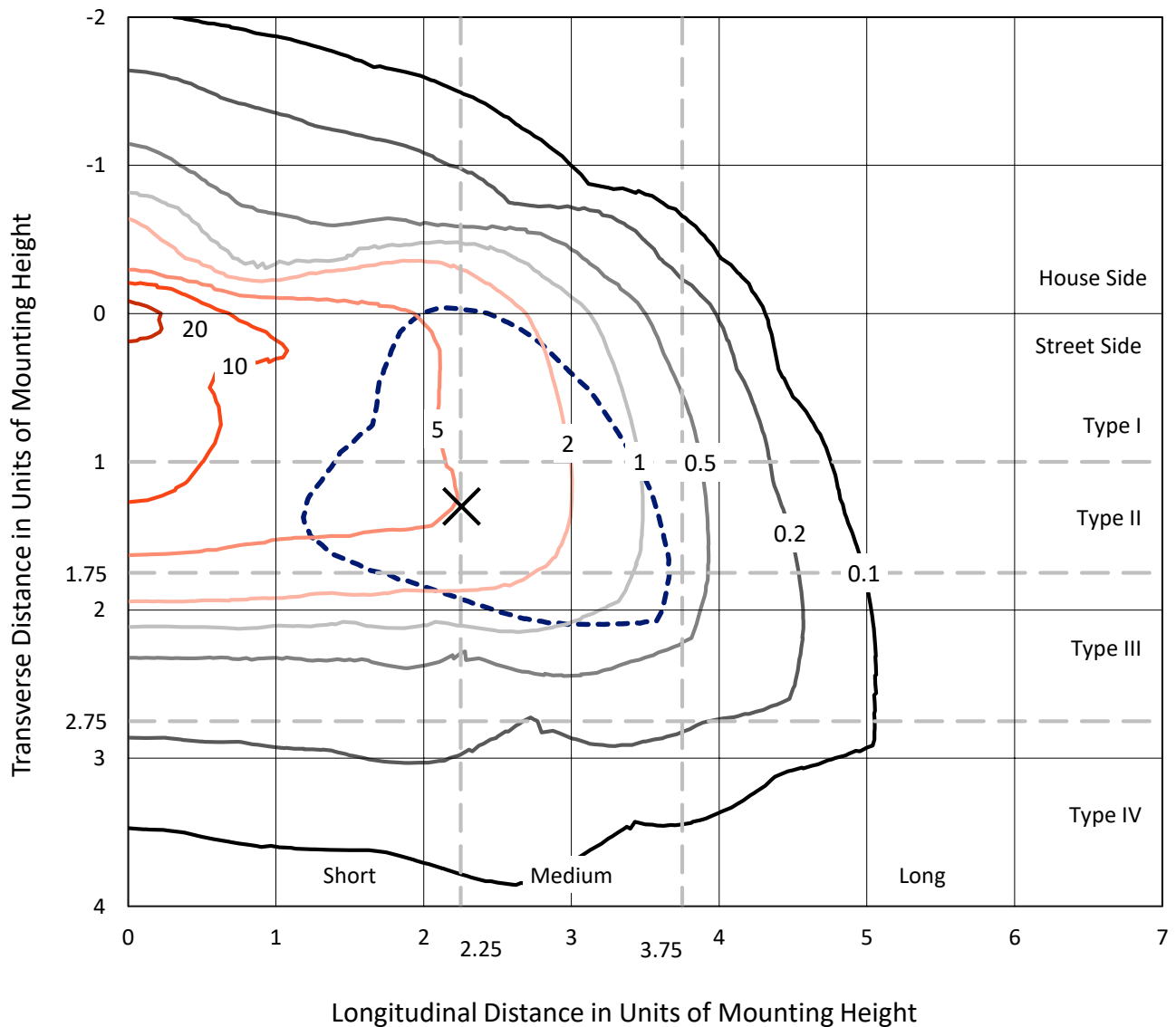


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

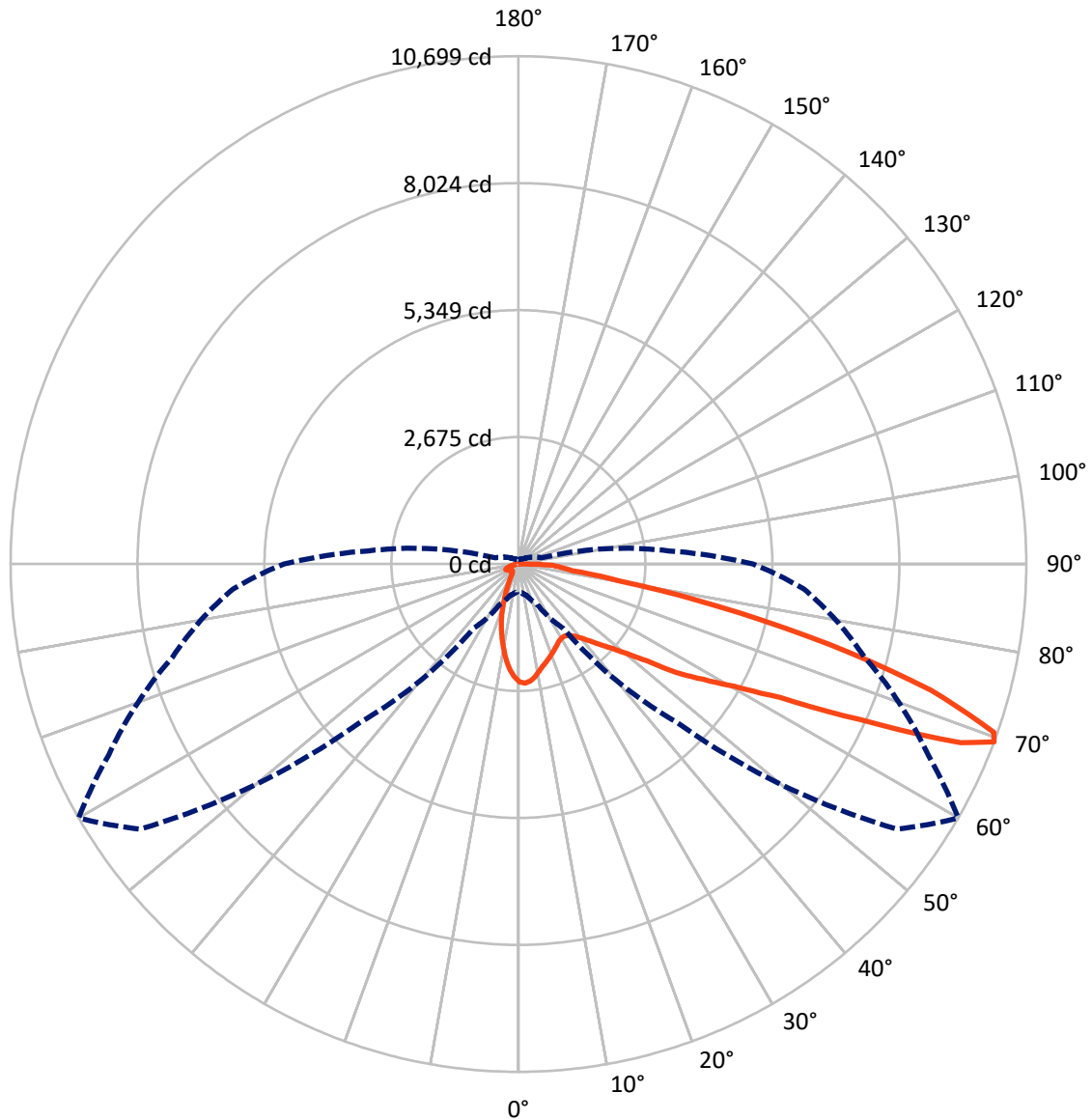


Based on 10 foot mounting height. Maximum calculated value = 24.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1388.0	0.0	1388.0
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	8343.0	0.0	8343.0
	% Fixture	85.7	0.0	85.7
Total	Lumens	9731.0	0.0	9731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	2.2
10°-20°	451.0	4.6
20°-30°	575.3	5.9
30°-40°	791.7	8.1
40°-50°	1282.4	13.2
50°-60°	2012.7	20.7
60°-70°	2683.3	27.6
70°-80°	1492.5	15.3
80°-90°	231.5	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°	9731.0	100.0
0°-180°	9731.0	100.0

Coefficient of Utilization



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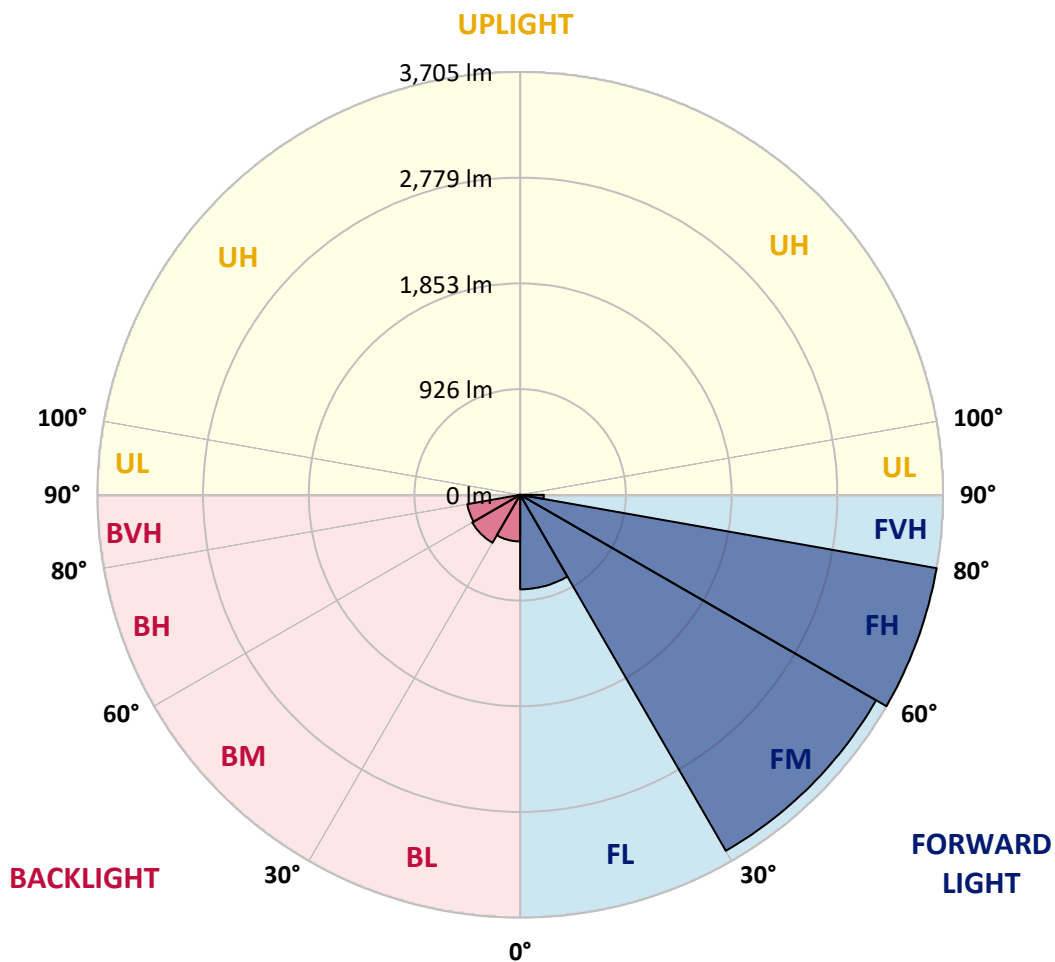
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.9	8.5			
FM	(30°-60°)	3601.9	37.0			
FH	(60°-80°)	3705.2	38.1			G2/5000
FVH	(80°-90°)	208.0	2.1			G2/225
BL	(0°-30°)	409.0	4.2	B1/500		
BM	(30°-60°)	484.9	5.0	B1/1000		
BH	(60°-80°)	470.6	4.8	B1/500		G1/500
BVH	(80°-90°)	23.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9
2.5°	2549.0	2555.9	2555.9	2550.3	2547.2	2529.1	2518.5	2511.0	2497.9	2473.5	2451.7
5°	2457.9	2471.0	2476.7	2479.2	2495.4	2489.8	2490.4	2485.4	2474.2	2448.0	2412.4
7.5°	2290.7	2293.2	2303.2	2320.0	2359.3	2386.8	2409.3	2413.6	2411.1	2391.8	2341.9
10°	2126.0	2130.3	2142.2	2170.9	2208.3	2247.6	2296.3	2316.3	2331.3	2325.0	2262.0
12.5°	1989.3	1989.9	2003.0	2036.1	2077.9	2127.2	2193.4	2224.6	2260.1	2274.5	2204.0
15°	1857.6	1866.4	1878.9	1918.8	1970.6	2033.0	2109.1	2152.2	2199.0	2240.2	2159.0
17.5°	1757.8	1764.7	1772.2	1805.2	1865.1	1943.1	2037.4	2083.5	2145.3	2208.3	2112.9
20°	1702.9	1705.4	1699.8	1716.0	1766.5	1850.8	1960.0	2015.5	2089.2	2177.8	2065.4
22.5°	1691.7	1691.7	1671.1	1668.0	1690.4	1761.6	1880.1	1948.1	2038.0	2156.5	2023.0
25°	1744.1	1740.3	1701.6	1666.1	1658.0	1694.2	1804.0	1887.6	1994.3	2155.9	1991.2
27.5°	1843.3	1838.3	1790.3	1730.4	1678.6	1663.0	1745.3	1830.8	1960.0	2177.1	1975.0
30°	1966.8	1965.0	1916.3	1841.4	1755.9	1675.4	1722.2	1801.5	1936.9	2216.4	1974.3
32.5°	2102.3	2093.5	2063.6	1988.7	1877.6	1744.7	1736.0	1802.7	1930.7	2273.9	1988.7
35°	2246.4	2240.2	2232.7	2157.2	2032.4	1867.0	1796.5	1845.8	1961.2	2353.7	2029.2
37.5°	2429.9	2423.0	2435.5	2353.1	2216.4	2027.4	1898.8	1931.9	2023.6	2469.8	2104.8
40°	2756.2	2736.2	2701.3	2574.6	2431.1	2223.9	2046.7	2051.7	2130.3	2625.2	2225.8
42.5°	3292.2	3228.0	3055.1	2822.4	2657.6	2452.3	2239.5	2215.8	2277.6	2830.5	2401.8
45°	3829.5	3757.1	3465.1	3092.5	2892.2	2697.6	2477.9	2421.1	2461.1	3069.5	2628.3
47.5°	4176.4	4140.9	3811.4	3362.7	3138.1	2964.6	2750.6	2657.0	2685.7	3340.3	2907.8
50°	4278.1	4247.6	3988.6	3574.3	3370.2	3287.2	3088.2	2964.0	2969.0	3656.6	3242.9
52.5°	4202.0	4189.5	4017.9	3705.3	3583.6	3627.3	3555.6	3382.7	3341.5	4003.6	3606.1
55°	4100.3	4104.7	4038.5	3837.0	3800.8	3944.3	4167.1	4027.9	3853.2	4364.9	3984.2
57.5°	3780.2	3783.3	3956.8	4087.8	4215.1	4388.6	4643.2	4584.5	4381.1	4754.9	4407.9
60°	3043.9	3068.2	3454.5	4036.0	4688.7	5264.1	5326.5	5225.4	4942.7	5204.2	4958.9
62.5°	2174.6	2196.5	2643.9	3503.8	4633.2	6255.0	6588.2	6186.3	5704.6	5876.2	5733.9
65°	1142.5	1138.8	1485.1	2421.1	3902.5	6484.6	8576.3	7892.4	6988.2	6800.4	6482.7
67.5°	638.4	658.9	793.1	1221.2	2543.4	5707.1	9846.1	10047.6	8772.8	7533.6	6450.3
69°	590.3	597.2	687.0	944.1	1658.0	4708.7	9736.9	10698.5	9525.4	7536.7	6034.7
70°	573.5	580.9	662.7	869.9	1392.8	3858.2	9339.4	10622.3	9708.2	7369.4	5656.6
72.5°	514.2	524.2	603.4	781.9	1173.7	1988.7	7522.9	9091.7	8794.0	6440.9	4386.1
75°	438.7	455.5	575.3	776.3	1112.0	1264.2	5017.0	6773.5	6545.1	4606.4	2488.5
77.5°	181.6	183.5	251.5	568.5	1166.9	1209.9	2696.3	4290.6	3798.3	2019.9	749.4
80°	126.7	124.2	125.4	166.0	941.6	1218.0	1383.4	2182.1	1696.0	532.9	350.7
82.5°	106.7	105.5	110.4	104.2	318.9	1382.2	1156.9	1137.6	798.7	287.0	167.2
85°	70.5	68.6	90.5	94.8	151.6	1097.6	1244.3	894.2	595.3	153.5	71.1
87.5°	34.3	34.9	51.8	64.3	80.5	347.6	1191.8	707.0	459.9	66.8	28.7
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°	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9	2482.9
2.5°	2443.0	2424.2	2407.4	2386.2	2370.0	2356.2	2337.5	2336.9	2333.8	2338.1	2339.4
5°	2388.7	2357.5	2310.0	2257.0	2219.6	2170.3	2122.2	2106.0	2087.9	2086.0	2091.6
7.5°	2306.9	2258.3	2177.1	2096.0	2014.9	1931.9	1853.3	1813.3	1774.7	1762.8	1768.4
10°	2215.8	2154.0	2029.9	1897.6	1783.4	1659.8	1540.0	1462.7	1392.1	1362.2	1369.7
12.5°	2144.7	2066.1	1891.3	1719.7	1548.8	1371.6	1213.7	1060.8	945.4	893.6	896.7
15°	2083.5	1983.1	1761.6	1533.2	1319.1	1076.4	857.4	680.2	579.1	541.6	540.4
17.5°	2017.4	1895.7	1626.1	1359.7	1082.0	781.9	574.1	469.2	429.3	416.8	416.8
20°	1946.9	1805.9	1484.5	1170.6	832.4	546.0	431.8	391.2	376.3	372.5	371.9
22.5°	1881.4	1717.9	1342.2	969.1	602.2	414.3	367.5	351.9	349.4	352.6	352.6
25°	1829.6	1640.5	1198.1	756.9	438.0	346.9	327.0	325.1	334.5	345.7	347.6
27.5°	1790.9	1571.2	1055.8	552.9	344.4	302.0	295.2	303.3	325.1	347.6	351.9
30°	1764.0	1512.0	885.5	397.5	287.0	264.6	267.7	282.0	315.1	349.4	358.8
32.5°	1752.2	1463.9	713.9	305.1	245.2	232.8	240.9	259.6	293.9	328.2	339.5
35°	1763.4	1429.0	555.4	253.3	214.7	205.3	214.7	234.0	256.5	273.3	280.2
37.5°	1804.0	1416.5	418.1	224.6	194.7	185.3	192.8	205.9	215.9	222.1	225.3
40°	1889.5	1429.6	327.6	209.7	183.5	172.8	174.7	181.0	187.8	192.8	193.4
42.5°	2025.5	1472.6	291.4	204.0	176.6	162.9	159.7	164.1	171.6	178.5	179.7
45°	2206.5	1544.4	287.7	205.9	173.5	154.8	148.5	152.9	162.9	174.1	176.0
47.5°	2440.5	1658.0	305.1	215.9	175.3	150.4	141.0	145.4	158.5	173.5	176.0
50°	2717.5	1815.2	337.6	230.9	184.1	150.4	137.9	141.6	155.4	172.2	174.7
52.5°	3043.9	2034.2	371.3	245.9	196.6	156.0	139.2	138.5	151.0	166.6	169.7
55°	3403.9	2306.3	403.7	259.0	203.4	163.5	142.3	134.8	144.8	157.2	159.7
57.5°	3827.6	2678.8	460.5	271.4	207.2	169.1	146.0	131.0	136.7	145.4	147.3
60°	4402.3	3226.1	571.0	292.7	214.0	171.6	146.6	127.3	126.7	132.9	133.5
62.5°	5151.7	3866.9	676.4	317.6	227.8	172.2	144.1	124.8	118.6	120.4	120.4
65°	5684.6	4102.8	645.8	338.8	240.2	171.6	141.6	122.9	112.3	109.2	109.2
67.5°	5381.4	3624.2	548.5	344.4	241.5	164.7	136.0	118.6	106.7	99.2	99.2
69°	4935.8	3176.8	503.6	334.5	231.5	156.6	129.8	114.2	103.0	94.2	94.2
70°	4572.7	2838.0	476.1	322.6	219.6	149.8	124.2	109.8	99.2	91.7	91.1
72.5°	3413.9	1893.8	406.8	278.3	180.3	126.7	108.6	98.0	89.2	84.2	84.2
75°	1801.5	949.1	333.2	227.1	139.2	101.1	89.2	82.4	77.4	76.8	76.1
77.5°	590.3	429.3	239.6	171.0	102.3	78.6	71.1	66.8	66.1	68.6	68.6
80°	318.9	256.5	154.1	115.4	71.1	58.7	54.9	54.3	56.2	59.9	59.9
82.5°	154.8	126.7	91.7	71.1	48.7	43.1	43.1	43.7	46.2	50.5	50.5
85°	66.8	59.9	53.0	39.9	30.0	26.8	30.6	33.7	35.6	38.7	39.9
87.5°	31.8	28.1	24.3	15.6	13.1	13.7	16.2	20.0	23.7	26.2	26.8
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)