

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: P198545

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11479 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-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

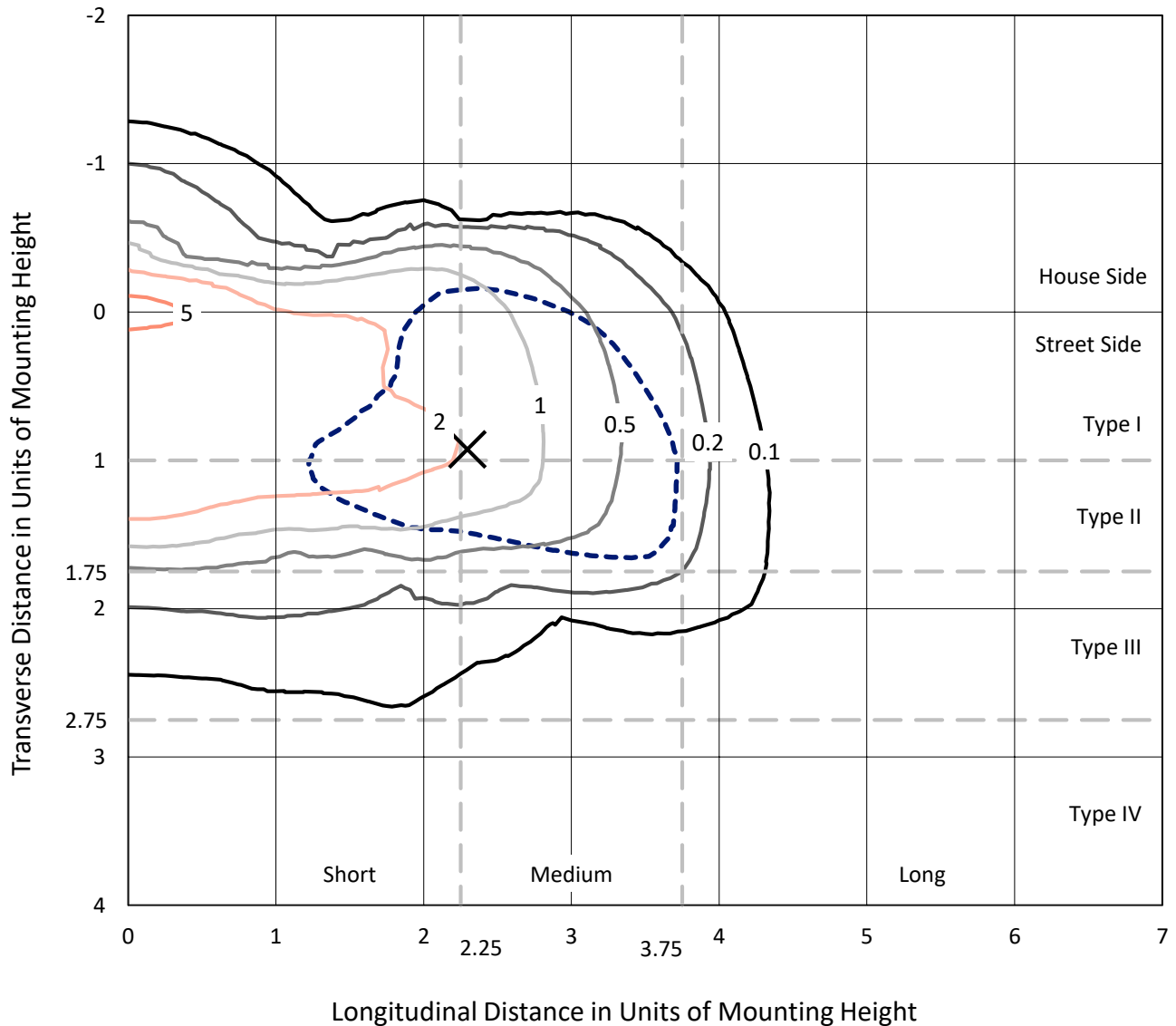


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Iso-Footcandle Lines of Horizontal Illumination

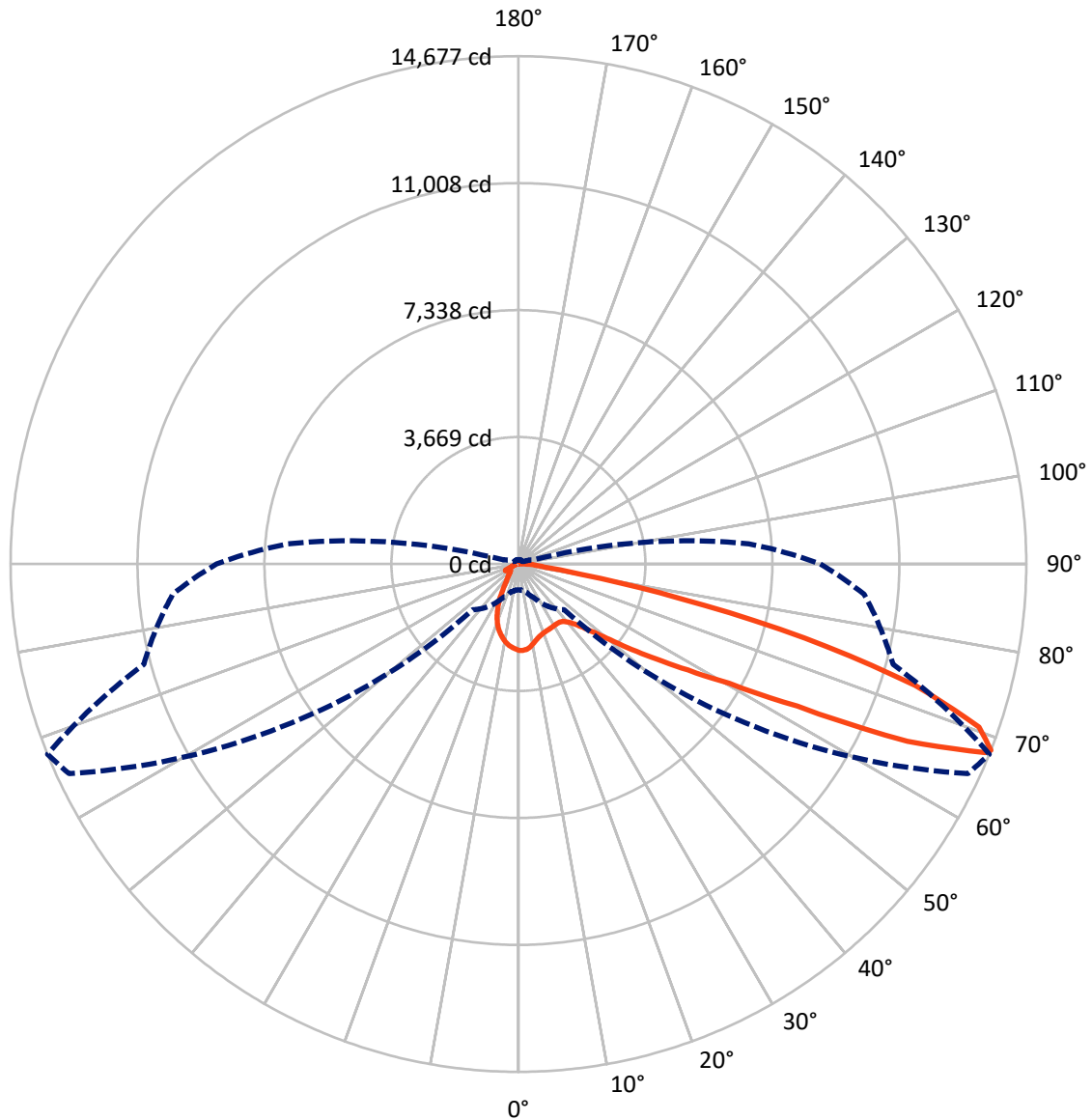
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.0	0.0	1878.0
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	9601.0	0.0	9601.0
	% Fixture	83.6	0.0	83.6
Total	Lumens	11479.0	0.0	11479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.9
10°-20°	496.4	4.3
20°-30°	671.3	5.8
30°-40°	946.5	8.2
40°-50°	1556.5	13.6
50°-60°	2412.7	21.0
60°-70°	3128.2	27.3
70°-80°	1795.1	15.6
80°-90°	258.3	2.2
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°	11479.0	100.0
0°-180°	11479.0	100.0

Coefficient of Utilization



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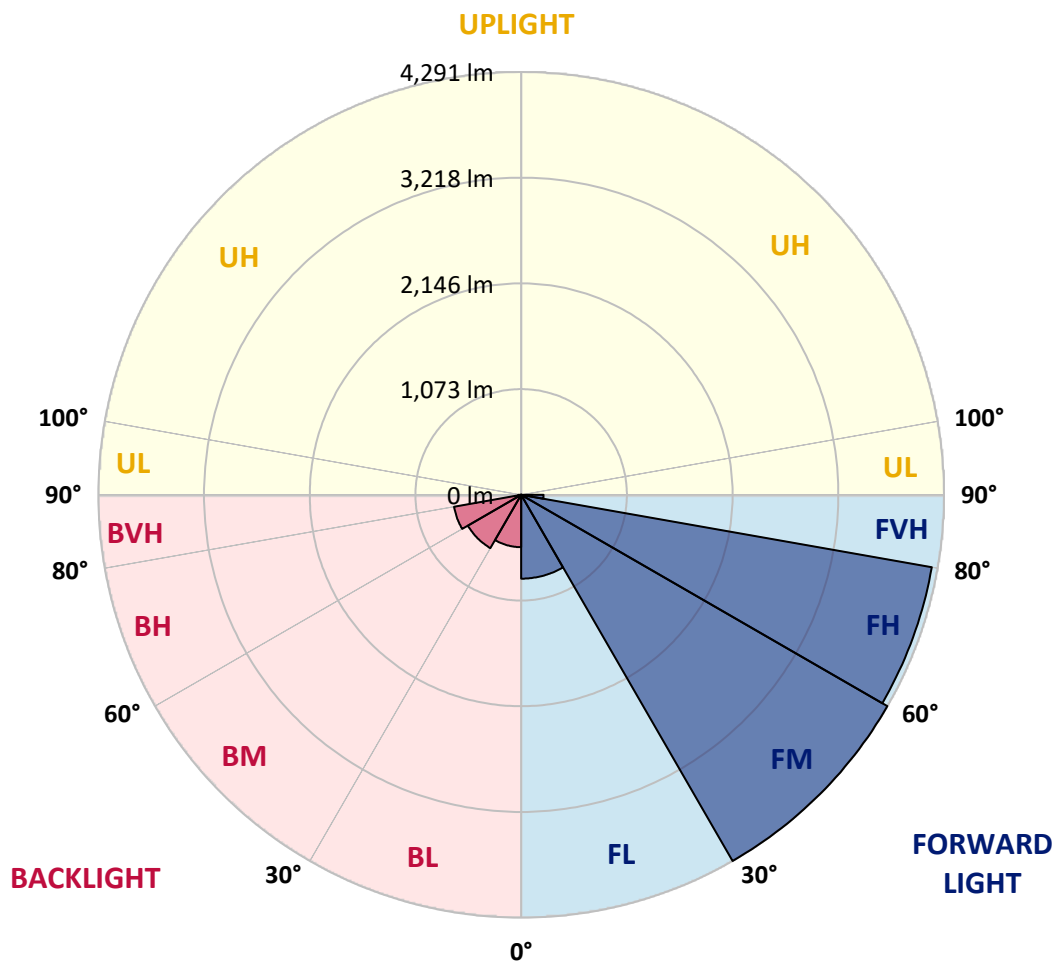
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.8	7.4			
FM (30°-60°)	4291.0	37.4			
FH (60°-80°)	4231.7	36.9			G2/5000
FVH (80°-90°)	227.5	2.0			G3/500
BL (0°-30°)	530.9	4.6	B2/1000		
BM (30°-60°)	624.6	5.4	B1/1000		
BH (60°-80°)	691.6	6.0	B2/1000		G2/1000
BVH (80°-90°)	30.8	0.3			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7
2.5°	2431.0	2450.5	2450.5	2464.7	2477.5	2488.0	2497.0	2497.0	2497.0	2491.0	2485.7
5°	2175.3	2201.5	2205.3	2241.3	2288.5	2346.3	2410.7	2467.7	2479.0	2500.0	2508.2
7.5°	1997.6	2005.8	2020.1	2044.8	2092.8	2164.0	2265.3	2392.7	2423.5	2489.5	2524.0
10°	1871.6	1878.4	1890.4	1915.1	1958.6	2023.1	2122.8	2288.5	2339.5	2456.5	2524.7
12.5°	1779.4	1784.6	1795.9	1818.4	1862.6	1920.3	2022.3	2194.8	2257.8	2423.5	2535.2
15°	1707.4	1716.4	1725.4	1747.1	1792.1	1847.6	1951.1	2126.6	2194.8	2397.2	2554.7
17.5°	1678.9	1683.4	1684.9	1696.1	1736.6	1792.9	1896.4	2078.6	2149.1	2376.3	2569.7
20°	1696.9	1697.6	1682.6	1675.1	1698.4	1750.1	1850.6	2042.6	2114.6	2357.5	2575.7
22.5°	1775.6	1775.6	1736.6	1703.6	1687.9	1720.1	1819.9	2017.8	2095.8	2343.3	2575.7
25°	1925.6	1918.8	1858.1	1792.9	1723.1	1709.6	1800.4	2002.1	2081.6	2335.8	2566.0
27.5°	2122.8	2116.8	2039.6	1942.8	1816.9	1732.1	1793.6	1989.3	2067.3	2324.5	2545.0
30°	2362.8	2357.5	2269.8	2143.1	1957.1	1803.4	1809.4	1980.3	2056.1	2305.8	2509.7
32.5°	2602.0	2599.0	2529.2	2399.5	2150.6	1924.1	1850.6	1978.8	2050.1	2283.3	2467.0
35°	2842.7	2842.7	2799.9	2690.4	2410.7	2105.6	1936.8	2006.6	2061.3	2271.3	2430.2
37.5°	3198.1	3183.8	3104.4	2991.1	2738.4	2341.0	2076.3	2065.1	2104.8	2291.5	2418.2
40°	3748.5	3707.2	3508.5	3318.1	3096.1	2642.4	2280.3	2178.3	2202.3	2360.5	2446.7
42.5°	4324.3	4259.1	3995.9	3691.5	3465.8	3014.4	2548.0	2362.0	2361.3	2494.0	2537.5
45°	4818.5	4784.8	4499.8	4113.6	3887.9	3432.8	2886.1	2634.9	2608.0	2700.9	2712.2
47.5°	5105.7	5083.2	4911.5	4560.5	4388.8	3926.9	3315.1	3013.6	2962.6	3018.1	3000.9
50°	5026.2	5047.9	4998.5	4819.2	4927.2	4621.3	3861.7	3532.5	3435.8	3491.3	3449.3
52.5°	4607.8	4666.3	4710.5	4745.0	5236.9	5550.3	4548.5	4180.4	4100.1	4090.4	4049.9
55°	3854.2	3947.2	4086.6	4340.1	5153.7	6296.4	5748.3	4964.0	4847.0	4785.5	4801.2
57.5°	2623.0	2763.9	3064.6	3546.8	4721.0	6614.4	7522.4	5976.3	5778.3	5559.3	5610.3
60°	1444.9	1562.7	1920.3	2406.2	3733.5	6567.1	9094.8	7621.4	6998.3	6417.9	6522.9
62.5°	935.1	960.5	1226.7	1643.7	2291.5	5797.8	9968.4	10371.1	9050.6	7550.2	7697.9
65°	751.3	769.3	899.8	1325.7	1596.4	3729.7	10007.4	13223.5	12352.9	9088.9	9093.3
67.5°	734.1	742.3	818.1	1115.0	1497.4	2030.6	8650.2	14348.3	14550.0	10905.0	10026.9
68°	744.6	754.3	830.8	1080.5	1496.7	1871.6	7994.8	14331.0	14676.7	11208.7	10026.9
70°	656.9	668.9	847.3	1118.0	1433.0	1609.2	5474.6	13569.9	14126.3	11906.8	9514.0
72.5°	343.4	333.7	419.2	882.6	1612.9	1676.6	2892.1	11336.9	11986.2	11027.2	8219.8
75°	267.7	243.7	234.7	348.7	1418.7	1738.9	1679.6	8057.8	8548.2	7949.1	5494.1
77.5°	251.9	222.7	205.5	206.2	624.6	1809.4	1358.7	4742.0	4742.0	3792.0	1753.1
80°	202.5	175.5	164.2	187.5	301.4	1667.7	1418.0	2161.0	1843.1	980.0	482.9
82.5°	133.5	119.2	120.0	152.2	228.7	1113.5	1642.2	1067.0	801.6	434.2	284.2
85°	84.7	72.7	81.0	106.5	171.0	496.4	1625.7	741.6	530.9	243.7	141.7
87.5°	42.7	33.0	40.5	55.5	104.2	142.5	1338.5	662.1	393.7	101.2	77.2
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°	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7	2497.7
2.5°	2485.7	2469.2	2461.0	2447.5	2431.0	2414.5	2403.2	2398.0	2395.0	2396.5	2395.7
5°	2503.7	2482.0	2446.7	2396.5	2344.8	2290.0	2248.0	2215.8	2195.5	2189.5	2188.0
7.5°	2517.2	2485.7	2419.7	2328.3	2239.8	2143.8	2062.1	1996.8	1952.6	1932.3	1931.6
10°	2515.0	2474.5	2370.3	2235.3	2105.6	1964.6	1836.4	1726.9	1647.4	1609.2	1607.7
12.5°	2517.2	2461.7	2309.5	2126.6	1940.6	1738.9	1548.4	1378.2	1259.7	1203.5	1201.2
15°	2526.2	2448.2	2247.3	2005.1	1747.9	1462.9	1190.8	977.0	869.1	832.3	832.3
17.5°	2525.5	2425.7	2175.3	1864.1	1519.2	1137.5	812.8	680.9	670.4	704.1	709.4
20°	2510.5	2389.8	2082.3	1696.9	1250.7	787.3	551.1	532.4	616.4	709.4	719.8
22.5°	2487.2	2343.3	1975.1	1502.7	938.1	512.9	425.2	453.7	567.6	683.1	699.6
25°	2455.0	2287.0	1852.1	1277.0	623.9	368.9	354.7	389.9	470.2	547.4	559.4
27.5°	2407.7	2215.8	1717.9	1032.5	398.2	303.7	308.9	333.7	368.2	401.2	407.9
30°	2348.5	2132.6	1571.7	761.8	302.2	271.4	280.4	295.4	310.4	331.4	335.9
32.5°	2288.5	2047.8	1419.5	523.4	263.9	254.2	263.2	271.4	284.2	298.4	301.4
35°	2234.5	1969.1	1262.7	365.2	247.4	242.9	247.4	252.7	265.4	279.7	281.2
37.5°	2195.5	1904.6	1099.3	288.7	237.7	233.2	235.5	237.7	252.7	273.7	275.9
40°	2190.3	1861.9	933.6	259.4	230.2	224.2	222.7	224.2	243.7	267.7	269.9
42.5°	2241.3	1864.1	771.6	247.4	224.2	217.5	211.5	214.5	231.7	250.4	251.9
45°	2362.0	1916.6	631.4	242.2	219.0	213.7	204.7	206.2	214.5	224.2	225.7
47.5°	2575.0	2031.3	524.1	239.2	214.5	210.0	198.7	194.2	195.0	200.2	200.2
50°	2915.4	2223.3	458.9	236.2	210.7	202.5	189.7	180.7	178.5	181.5	182.2
52.5°	3423.0	2552.5	427.4	230.2	204.0	192.7	178.5	169.5	165.7	168.7	168.7
55°	4109.1	3078.1	412.4	222.0	195.7	180.7	168.0	160.5	157.5	159.7	159.7
57.5°	4891.2	3761.2	437.9	210.7	185.2	168.0	159.0	153.7	151.5	153.7	154.5
60°	5820.3	4655.0	613.4	196.5	174.0	156.7	151.5	148.5	147.0	149.2	149.2
62.5°	7055.3	5844.3	949.3	185.2	162.0	146.2	144.7	143.2	141.7	144.0	144.0
65°	8388.5	6926.3	977.0	178.5	151.5	137.2	138.0	138.0	136.5	138.7	138.7
67.5°	8812.9	6832.6	545.9	170.2	138.7	128.2	131.2	131.2	130.5	132.7	132.0
68°	8722.9	6684.1	475.4	168.0	136.5	126.0	129.0	129.7	129.0	131.2	130.5
70°	8052.6	5868.3	312.7	155.2	126.7	118.5	123.0	123.7	123.0	126.0	125.2
72.5°	6647.4	4401.6	231.0	135.7	114.7	108.7	113.2	114.0	114.7	117.7	117.0
75°	4221.6	2431.0	182.2	115.5	102.7	97.5	102.0	104.2	105.7	110.2	108.0
77.5°	1156.3	737.8	147.7	98.2	88.5	86.2	89.2	92.2	93.7	99.0	95.2
80°	404.9	326.2	123.0	83.2	73.5	72.7	75.7	78.7	80.2	84.7	80.2
82.5°	245.9	213.0	98.2	65.2	57.7	57.0	60.7	63.7	65.2	65.2	62.2
85°	128.2	112.5	72.0	45.7	39.7	37.5	44.2	48.0	48.7	48.0	45.7
87.5°	72.0	63.7	38.2	21.7	18.0	18.7	23.2	28.5	30.7	30.0	28.5
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)