

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: P199185

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199185
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-SL2-8030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 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: 10582 lumens
Efficiency: N/A
Efficacy: 82.7 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 - G2

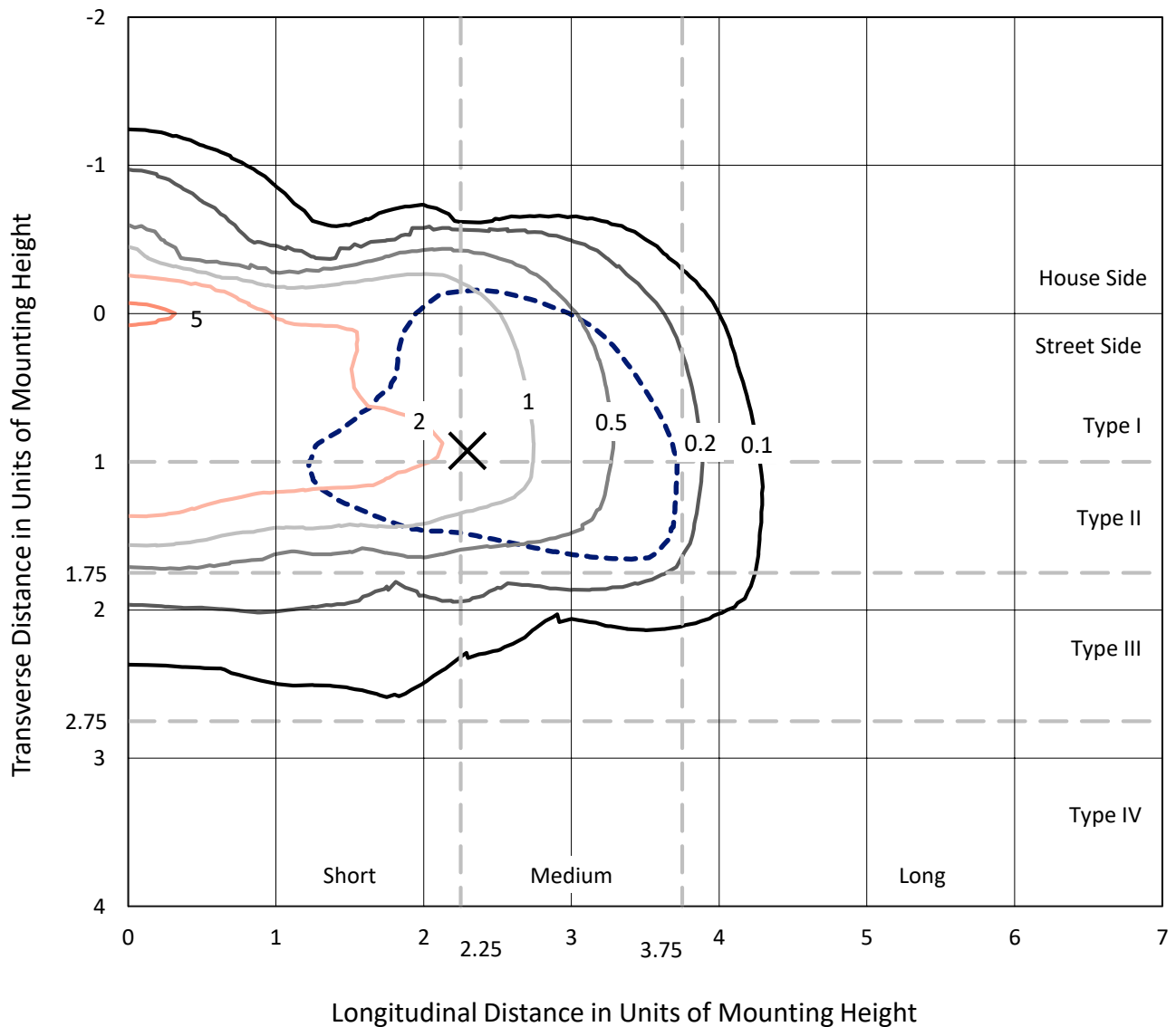
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

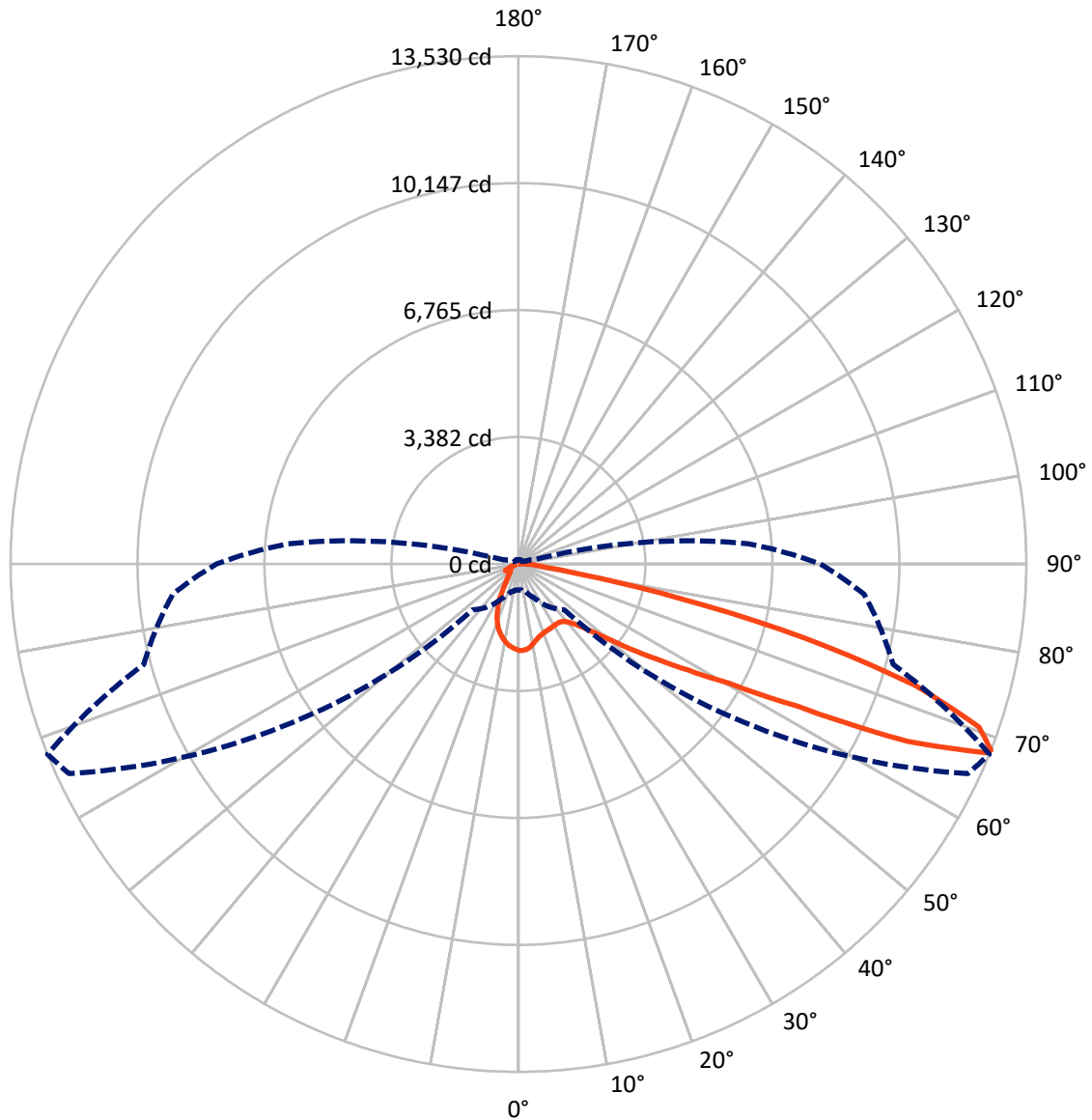
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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	1731.2	0.0	1731.2
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	8850.8	0.0	8850.8
	% Fixture	83.6	0.0	83.6
Total	Lumens	10582.0	0.0	10582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	1.9
10°-20°	457.6	4.3
20°-30°	618.9	5.8
30°-40°	872.6	8.2
40°-50°	1434.8	13.6
50°-60°	2224.1	21.0
60°-70°	2883.8	27.3
70°-80°	1654.9	15.6
80°-90°	238.1	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°	10582.0	100.0
0°-180°	10582.0	100.0

Coefficient of Utilization



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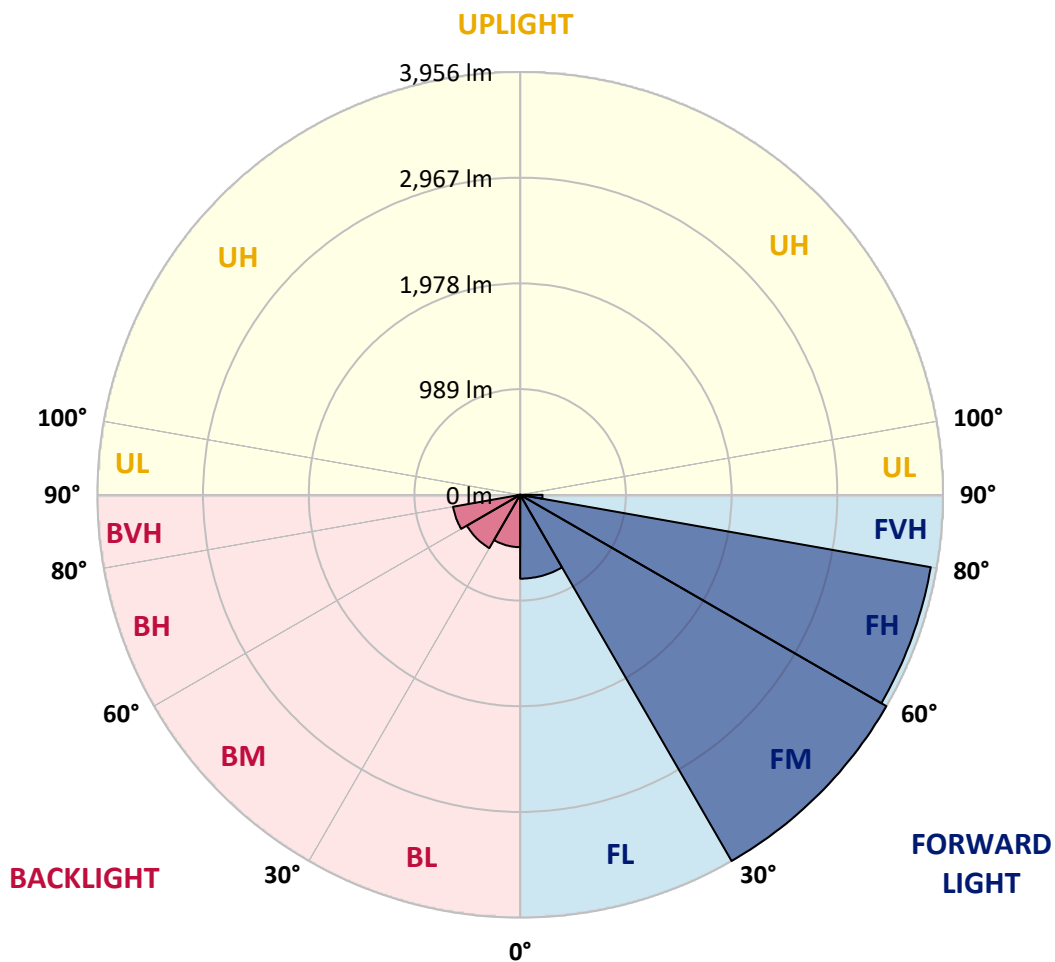
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	784.3	7.4			
FM	(30°-60°)	3955.7	37.4			
FH	(60°-80°)	3901.0	36.9			G2/5000
FVH	(80°-90°)	209.7	2.0			G2/225
BL	(0°-30°)	489.4	4.6	B1/500		
BM	(30°-60°)	575.8	5.4	B1/1000		
BH	(60°-80°)	637.6	6.0	B2/1000		G2/1000
BVH	(80°-90°)	28.4	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5
2.5°	2241.0	2259.0	2259.0	2272.1	2283.9	2293.6	2301.9	2301.9	2301.9	2296.3	2291.5
5°	2005.3	2029.5	2033.0	2066.1	2109.7	2162.9	2222.4	2274.9	2285.3	2304.6	2312.2
7.5°	1841.5	1849.1	1862.2	1885.0	1929.3	1994.9	2088.3	2205.8	2234.1	2294.9	2326.7
10°	1725.4	1731.6	1742.6	1765.4	1805.5	1865.0	1956.9	2109.7	2156.7	2264.5	2327.4
12.5°	1640.3	1645.2	1655.5	1676.3	1717.1	1770.3	1864.3	2023.3	2081.3	2234.1	2337.1
15°	1574.0	1582.3	1590.6	1610.6	1652.1	1703.2	1798.6	1960.4	2023.3	2209.9	2355.1
17.5°	1547.7	1551.9	1553.2	1563.6	1600.9	1652.8	1748.2	1916.1	1981.1	2190.6	2368.9
20°	1564.3	1565.0	1551.2	1544.2	1565.7	1613.4	1706.0	1883.0	1949.3	2173.3	2374.4
22.5°	1636.9	1636.9	1600.9	1570.5	1556.0	1585.7	1677.7	1860.1	1932.0	2160.2	2374.4
25°	1775.1	1768.9	1712.9	1652.8	1588.5	1576.0	1659.7	1845.6	1918.9	2153.2	2365.5
27.5°	1956.9	1951.4	1880.2	1791.0	1674.9	1596.8	1653.5	1833.9	1905.8	2142.9	2346.1
30°	2178.1	2173.3	2092.4	1975.6	1804.2	1662.5	1668.0	1825.6	1895.4	2125.6	2313.6
32.5°	2398.6	2395.9	2331.6	2212.0	1982.5	1773.7	1706.0	1824.2	1889.9	2104.9	2274.2
35°	2620.5	2620.5	2581.1	2480.2	2222.4	1941.0	1785.5	1849.8	1900.2	2093.8	2240.3
37.5°	2948.2	2935.0	2861.8	2757.4	2524.4	2158.1	1914.1	1903.7	1940.3	2112.5	2229.3
40°	3455.6	3417.5	3234.4	3058.8	2854.2	2436.0	2102.1	2008.1	2030.2	2176.1	2255.5
42.5°	3986.4	3926.3	3683.7	3403.0	3195.0	2778.8	2348.9	2177.4	2176.7	2299.1	2339.2
45°	4442.0	4410.9	4148.2	3792.2	3584.1	3164.5	2660.6	2429.0	2404.2	2489.9	2500.2
47.5°	4706.7	4686.0	4527.7	4204.2	4045.9	3620.1	3056.0	2778.1	2731.1	2782.3	2766.4
50°	4633.4	4653.5	4607.9	4442.7	4542.2	4260.2	3559.9	3256.5	3167.3	3218.5	3179.7
52.5°	4247.7	4301.6	4342.4	4374.2	4827.7	5116.6	4193.1	3853.7	3779.7	3770.8	3733.4
55°	3553.0	3638.7	3767.3	4000.9	4751.0	5804.4	5299.1	4576.1	4468.2	4411.5	4426.1
57.5°	2418.0	2547.9	2825.1	3269.6	4352.1	6097.5	6934.6	5509.3	5326.8	5124.9	5171.9
60°	1332.0	1440.6	1770.3	2218.2	3441.7	6054.0	8384.2	7025.8	6451.4	5916.4	6013.2
62.5°	862.0	885.5	1130.9	1515.2	2112.5	5344.7	9189.5	9560.7	8343.4	6960.2	7096.4
65°	692.6	709.2	829.5	1222.1	1471.7	3438.3	9225.4	12190.2	11387.6	8378.6	8382.8
67.5°	676.7	684.3	754.2	1027.9	1380.4	1871.9	7974.2	13227.0	13413.0	10052.8	9243.4
68°	686.4	695.4	765.9	996.1	1379.7	1725.4	7370.1	13211.1	13529.8	10332.8	9243.4
70°	605.5	616.6	781.1	1030.7	1321.0	1483.4	5046.8	12509.5	13022.4	10976.3	8770.6
72.5°	316.6	307.6	386.4	813.6	1486.9	1545.6	2666.1	10451.0	11049.6	10165.5	7577.5
75°	246.8	224.7	216.4	321.4	1307.8	1603.0	1548.4	7428.2	7880.2	7327.9	5064.8
77.5°	232.3	205.3	189.4	190.1	575.8	1668.0	1252.5	4371.5	4371.5	3495.6	1616.1
80°	186.6	161.8	151.4	172.8	277.9	1537.3	1307.2	1992.2	1699.1	903.5	445.2
82.5°	123.0	109.9	110.6	140.3	210.8	1026.5	1513.8	983.6	738.9	400.2	262.0
85°	78.1	67.1	74.7	98.2	157.6	457.6	1498.6	683.6	489.4	224.7	130.6
87.5°	39.4	30.4	37.3	51.2	96.1	131.3	1233.9	610.4	362.9	93.3	71.2
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°	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5	2302.5
2.5°	2291.5	2276.3	2268.7	2256.2	2241.0	2225.8	2215.5	2210.6	2207.8	2209.2	2208.5
5°	2308.1	2288.0	2255.5	2209.2	2161.5	2111.1	2072.4	2042.6	2024.0	2018.4	2017.1
7.5°	2320.5	2291.5	2230.7	2146.3	2064.8	1976.3	1900.9	1840.8	1800.0	1781.3	1780.7
10°	2318.4	2281.1	2185.0	2060.6	1941.0	1811.1	1692.9	1591.9	1518.7	1483.4	1482.0
12.5°	2320.5	2269.4	2129.0	1960.4	1789.0	1603.0	1427.4	1270.5	1161.3	1109.5	1107.4
15°	2328.8	2256.9	2071.7	1848.4	1611.3	1348.6	1097.7	900.7	801.2	767.3	767.3
17.5°	2328.1	2236.2	2005.3	1718.4	1400.5	1048.6	749.3	627.7	618.0	649.1	653.9
20°	2314.3	2203.0	1919.6	1564.3	1153.0	725.8	508.1	490.8	568.2	653.9	663.6
22.5°	2292.9	2160.2	1820.7	1385.3	864.8	472.8	391.9	418.2	523.3	629.7	644.9
25°	2263.1	2108.3	1707.4	1177.2	575.1	340.1	327.0	359.4	433.4	504.6	515.7
27.5°	2219.6	2042.6	1583.7	951.8	367.1	280.0	284.8	307.6	339.4	369.8	376.0
30°	2165.0	1965.9	1448.9	702.3	278.6	250.2	258.5	272.4	286.2	305.5	309.7
32.5°	2109.7	1887.8	1308.5	482.5	243.3	234.3	242.6	250.2	262.0	275.1	277.9
35°	2059.9	1815.2	1164.1	336.6	228.1	224.0	228.1	233.0	244.7	257.8	259.2
37.5°	2024.0	1755.8	1013.4	266.1	219.1	215.0	217.1	219.1	233.0	252.3	254.4
40°	2019.1	1716.4	860.6	239.2	212.2	206.7	205.3	206.7	224.7	246.8	248.8
42.5°	2066.1	1718.4	711.3	228.1	206.7	200.5	194.9	197.7	213.6	230.9	232.3
45°	2177.4	1766.8	582.0	223.3	201.8	197.0	188.7	190.1	197.7	206.7	208.1
47.5°	2373.7	1872.6	483.2	220.5	197.7	193.5	183.2	179.0	179.7	184.6	184.6
50°	2687.6	2049.6	423.0	217.7	194.2	186.6	174.9	166.6	164.5	167.3	168.0
52.5°	3155.5	2353.0	394.0	212.2	188.0	177.7	164.5	156.2	152.8	155.5	155.5
55°	3788.0	2837.6	380.2	204.6	180.4	166.6	154.8	147.9	145.2	147.2	147.2
57.5°	4509.0	3467.3	403.7	194.2	170.7	154.8	146.5	141.7	139.6	141.7	142.4
60°	5365.5	4291.3	565.4	181.1	160.4	144.5	139.6	136.9	135.5	137.6	137.6
62.5°	6504.0	5387.6	875.1	170.7	149.3	134.8	133.4	132.0	130.6	132.7	132.7
65°	7733.0	6385.1	900.7	164.5	139.6	126.5	127.2	127.2	125.8	127.9	127.9
67.5°	8124.2	6298.7	503.2	156.9	127.9	118.2	121.0	121.0	120.3	122.4	121.7
68°	8041.3	6161.8	438.3	154.8	125.8	116.1	118.9	119.6	118.9	121.0	120.3
70°	7423.3	5409.7	288.3	143.1	116.8	109.2	113.4	114.1	113.4	116.1	115.4
72.5°	6127.9	4057.6	212.9	125.1	105.8	100.2	104.4	105.1	105.8	108.5	107.8
75°	3891.7	2241.0	168.0	106.5	94.7	89.9	94.0	96.1	97.5	101.6	99.5
77.5°	1065.9	680.2	136.2	90.6	81.6	79.5	82.3	85.0	86.4	91.2	87.8
80°	373.3	300.7	113.4	76.7	67.7	67.1	69.8	72.6	74.0	78.1	74.0
82.5°	226.7	196.3	90.6	60.1	53.2	52.5	56.0	58.8	60.1	60.1	57.4
85°	118.2	103.7	66.4	42.2	36.6	34.6	40.8	44.2	44.9	44.2	42.2
87.5°	66.4	58.8	35.3	20.0	16.6	17.3	21.4	26.3	28.3	27.6	26.3
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)