

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: P199199

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199199
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-SL3-8030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9827 lumens
Efficiency: N/A
Efficacy: 88.5 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

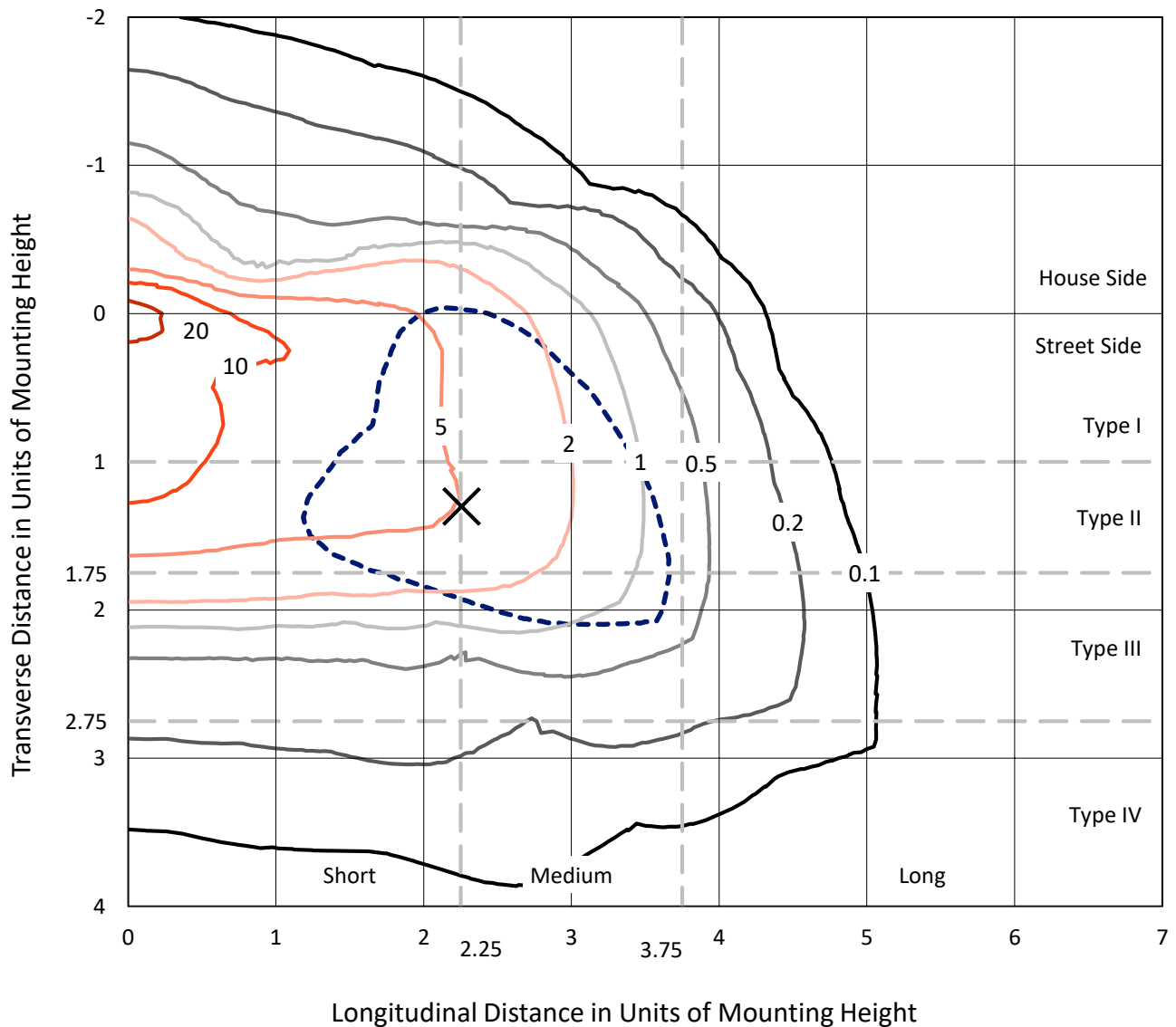
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

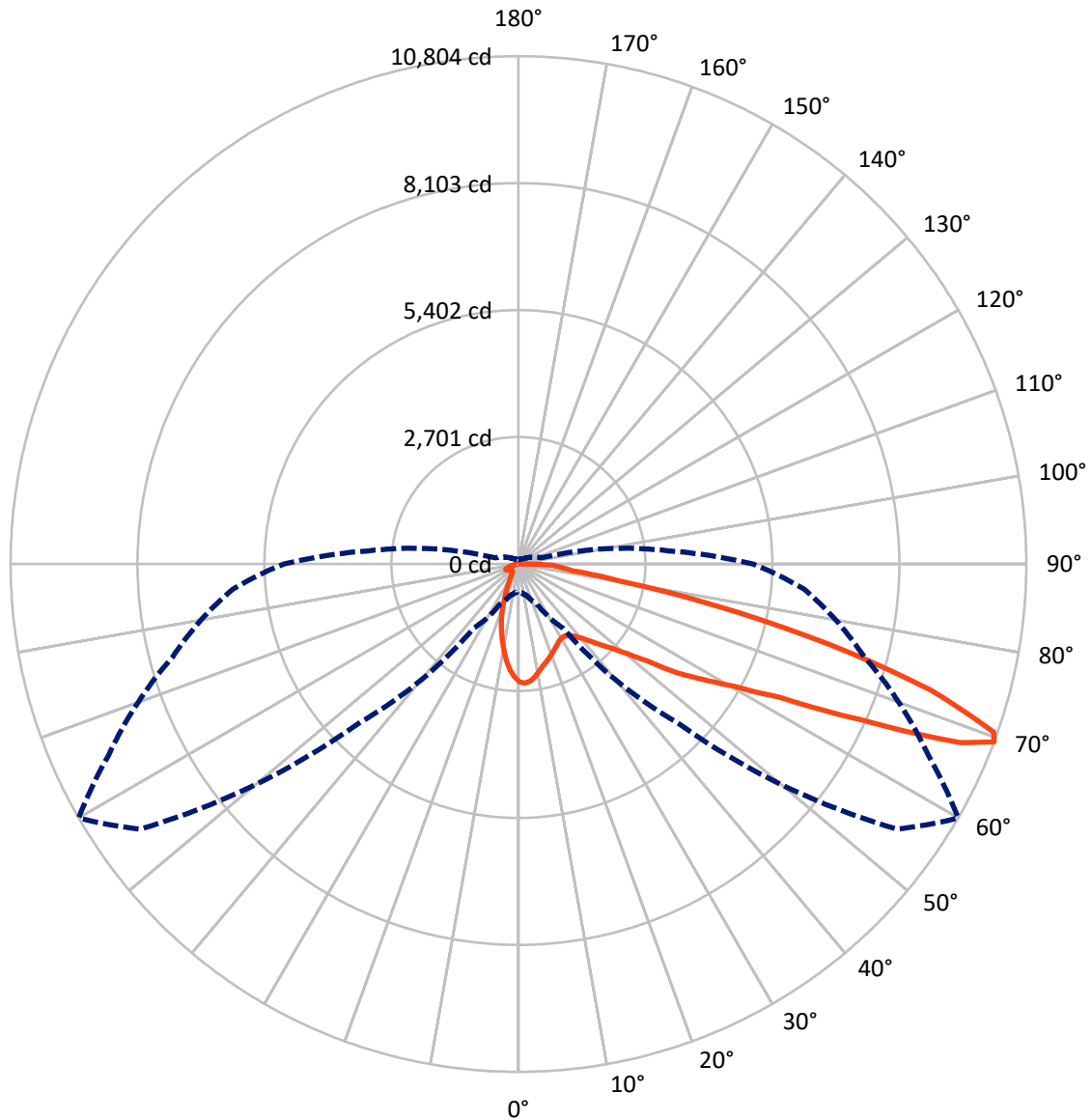
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 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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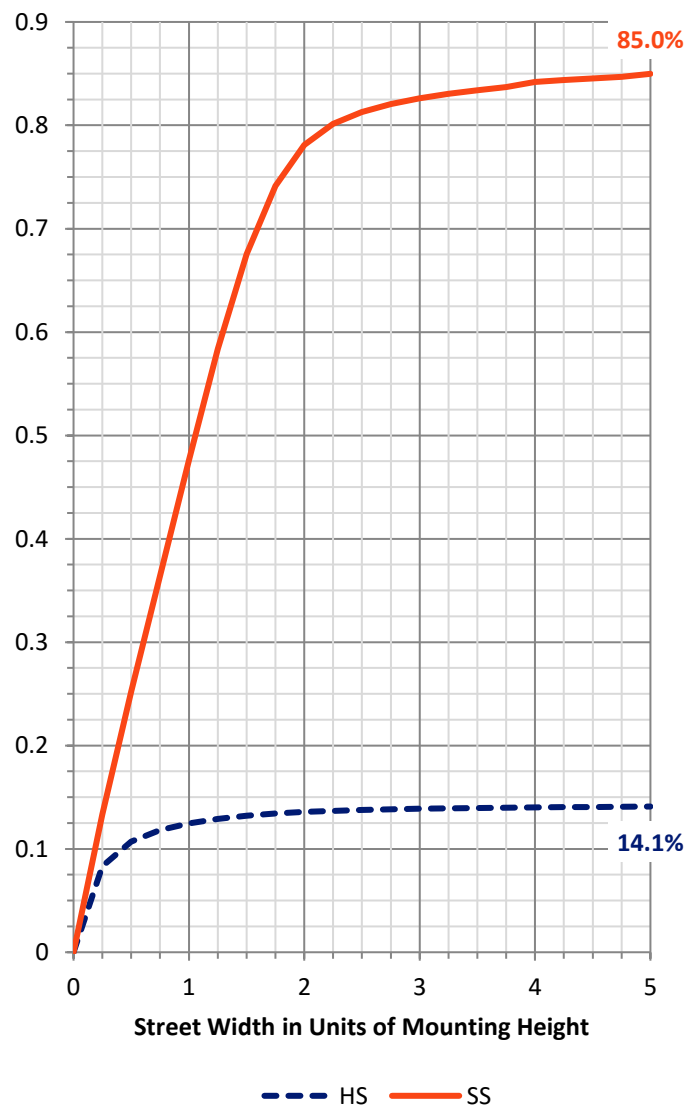
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.6	0.0	1401.6
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	8425.3	0.0	8425.3
	% Fixture	85.7	0.0	85.7
Total	Lumens	9827.0	0.0	9827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.2
10°-20°	455.4	4.6
20°-30°	581.0	5.9
30°-40°	799.5	8.1
40°-50°	1295.1	13.2
50°-60°	2032.5	20.7
60°-70°	2709.7	27.6
70°-80°	1507.2	15.3
80°-90°	233.8	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°	9827.0	100.0
0°-180°	9827.0	100.0

Coefficient of Utilization



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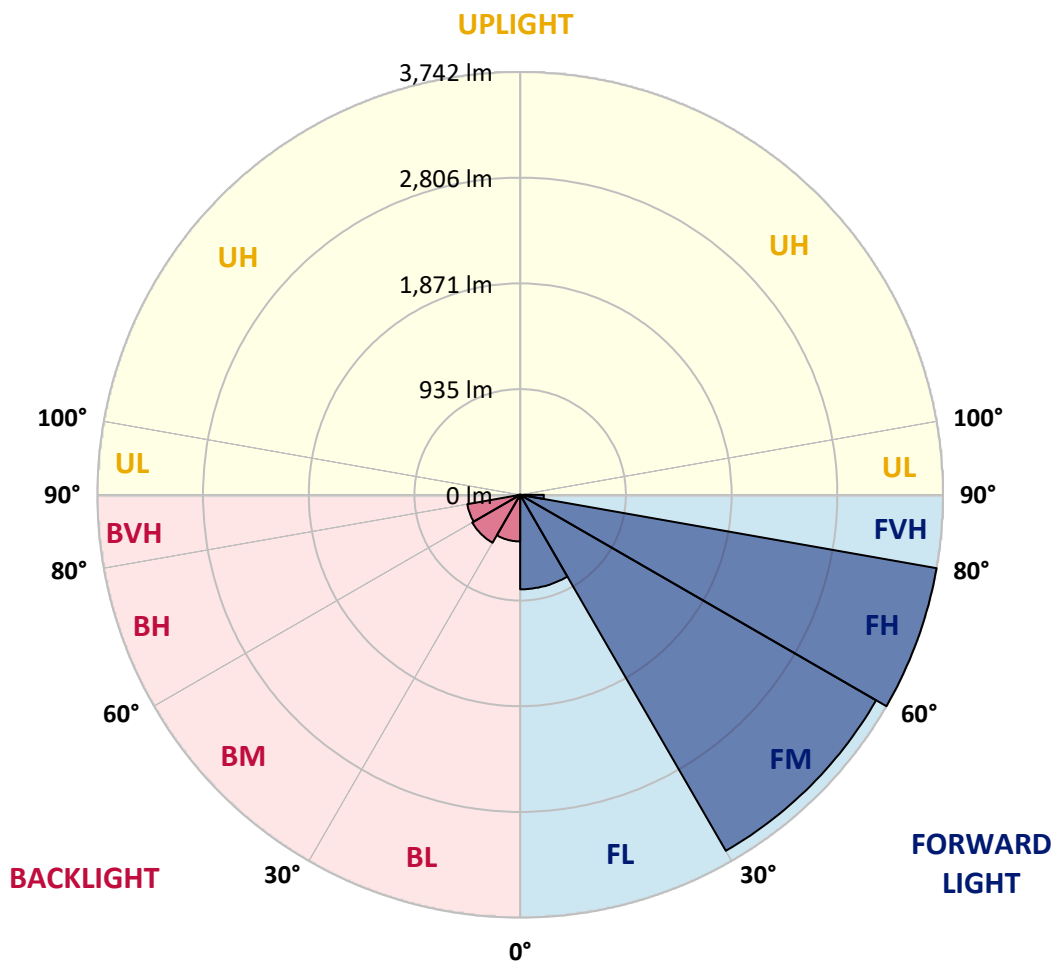
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.1	8.5			
FM	(30°-60°)	3637.4	37.0			
FH	(60°-80°)	3741.7	38.1			G2/5000
FVH	(80°-90°)	210.1	2.1			G2/225
BL	(0°-30°)	413.1	4.2	B1/500		
BM	(30°-60°)	489.7	5.0	B1/1000		
BH	(60°-80°)	475.2	4.8	B1/500		G1/500
BVH	(80°-90°)	23.7	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°	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4
2.5°	2574.2	2581.1	2581.1	2575.4	2572.3	2554.0	2543.3	2535.7	2522.5	2497.9	2475.9
5°	2482.2	2495.4	2501.1	2503.6	2520.0	2514.3	2515.0	2509.9	2498.6	2472.1	2436.2
7.5°	2313.3	2315.8	2325.9	2342.9	2382.6	2410.3	2433.0	2437.4	2434.9	2415.4	2365.0
10°	2146.9	2151.4	2163.3	2192.3	2230.1	2269.8	2319.0	2339.1	2354.3	2348.0	2284.3
12.5°	2008.9	2009.6	2022.8	2056.2	2098.4	2148.2	2215.0	2246.5	2282.4	2296.9	2225.7
15°	1876.0	1884.8	1897.4	1937.7	1990.0	2053.0	2129.9	2173.4	2220.7	2262.3	2180.3
17.5°	1775.1	1782.1	1789.6	1823.0	1883.5	1962.3	2057.5	2104.1	2166.5	2230.1	2133.7
20°	1719.7	1722.2	1716.5	1732.9	1784.0	1869.0	1979.3	2035.4	2109.8	2199.2	2085.8
22.5°	1708.4	1708.4	1687.6	1684.4	1707.1	1778.9	1898.7	1967.3	2058.1	2177.8	2043.0
25°	1761.3	1757.5	1718.4	1682.5	1674.3	1710.9	1821.8	1906.2	2014.0	2177.2	2010.8
27.5°	1861.5	1856.4	1807.9	1747.4	1695.1	1679.4	1762.5	1848.9	1979.3	2198.6	1994.4
30°	1986.3	1984.4	1935.2	1859.6	1773.3	1692.0	1739.2	1819.3	1956.0	2238.3	1993.8
32.5°	2123.0	2114.2	2083.9	2008.3	1896.1	1761.9	1753.1	1820.5	1949.7	2296.3	2008.3
35°	2268.6	2262.3	2254.7	2178.4	2052.4	1885.4	1814.2	1864.0	1980.6	2376.9	2049.3
37.5°	2453.8	2446.9	2459.5	2376.3	2238.3	2047.4	1917.6	1951.0	2043.6	2494.2	2125.5
40°	2783.4	2763.2	2727.9	2600.0	2455.1	2245.9	2066.9	2072.0	2151.4	2651.1	2247.8
42.5°	3324.7	3259.8	3085.2	2850.2	2683.8	2476.5	2261.6	2237.7	2300.1	2858.4	2425.5
45°	3867.3	3794.2	3499.3	3123.1	2920.8	2724.2	2502.3	2445.0	2485.3	3099.7	2654.2
47.5°	4217.6	4181.7	3849.0	3395.9	3169.1	2993.9	2777.7	2683.2	2712.2	3373.2	2936.5
50°	4320.3	4289.5	4028.0	3609.5	3403.5	3319.7	3118.6	2993.2	2998.3	3692.7	3274.9
52.5°	4243.5	4230.9	4057.6	3741.9	3619.0	3663.1	3590.6	3416.1	3374.5	4043.1	3641.7
55°	4140.8	4145.2	4078.4	3874.8	3838.3	3983.2	4208.2	4067.7	3891.2	4407.9	4023.5
57.5°	3817.5	3820.6	3995.8	4128.2	4256.7	4431.9	4689.0	4629.8	4424.3	4801.8	4451.4
60°	3073.9	3098.5	3488.5	4075.8	4735.0	5316.0	5379.0	5276.9	4991.5	5255.5	5007.8
62.5°	2196.1	2218.1	2670.0	3538.3	4678.9	6316.7	6653.2	6247.4	5760.9	5934.2	5790.5
65°	1153.8	1150.0	1499.8	2445.0	3941.0	6548.6	8660.9	7970.2	7057.1	6867.4	6546.7
67.5°	644.6	665.4	800.9	1233.2	2568.5	5763.4	9943.2	10146.8	8859.4	7607.9	6513.9
69°	596.1	603.1	693.8	953.4	1674.3	4755.2	9833.0	10804.0	9619.3	7611.0	6094.2
70°	579.1	586.7	669.2	878.4	1406.5	3896.3	9431.5	10727.1	9804.0	7442.1	5712.4
72.5°	519.2	529.3	609.4	789.6	1185.3	2008.3	7597.2	9181.4	8880.8	6504.5	4429.4
75°	443.0	460.0	581.0	783.9	1122.9	1276.7	5066.5	6840.3	6609.7	4651.8	2513.1
77.5°	183.4	185.3	254.0	574.1	1178.4	1221.9	2722.9	4333.0	3835.8	2039.8	756.8
80°	127.9	125.4	126.7	167.6	950.9	1230.1	1397.1	2203.7	1712.8	538.2	354.1
82.5°	107.8	106.5	111.5	105.2	322.0	1395.8	1168.3	1148.8	806.6	289.9	168.9
85°	71.2	69.3	91.4	95.8	153.1	1108.4	1256.5	903.0	601.2	155.0	71.8
87.5°	34.7	35.3	52.3	64.9	81.3	351.0	1203.6	714.0	464.4	67.4	29.0
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°	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4	2507.4
2.5°	2467.1	2448.2	2431.1	2409.7	2393.3	2379.5	2360.6	2359.9	2356.8	2361.2	2362.5
5°	2412.2	2380.7	2332.8	2279.3	2241.5	2191.7	2143.2	2126.8	2108.5	2106.6	2112.3
7.5°	2329.7	2280.5	2198.6	2116.7	2034.8	1951.0	1871.6	1831.2	1792.2	1780.2	1785.9
10°	2237.7	2175.3	2049.9	1916.3	1801.0	1676.2	1555.2	1477.1	1405.9	1375.6	1383.2
12.5°	2165.8	2086.4	1910.0	1736.7	1564.0	1385.1	1225.7	1071.3	954.7	902.4	905.5
15°	2104.1	2002.6	1778.9	1548.3	1332.1	1087.0	865.8	686.9	584.8	547.0	545.7
17.5°	2037.3	1914.4	1642.2	1373.1	1092.7	789.6	579.7	473.9	433.5	420.9	420.9
20°	1966.1	1823.7	1499.1	1182.2	840.6	551.4	436.1	395.1	380.0	376.2	375.6
22.5°	1899.9	1734.8	1355.5	978.6	608.1	418.4	371.2	355.4	352.9	356.0	356.0
25°	1847.6	1656.7	1209.9	764.4	442.4	350.4	330.2	328.3	337.8	349.1	351.0
27.5°	1808.5	1586.7	1066.2	558.3	347.8	305.0	298.1	306.3	328.3	351.0	355.4
30°	1781.5	1526.9	894.2	401.4	289.9	267.2	270.3	284.8	318.2	352.9	362.3
32.5°	1769.5	1478.3	720.9	308.1	247.7	235.0	243.2	262.1	296.8	331.5	342.8
35°	1780.8	1443.1	560.8	255.8	216.8	207.3	216.8	236.3	259.0	276.0	282.9
37.5°	1821.8	1430.5	422.2	226.9	196.6	187.2	194.7	208.0	218.0	224.3	227.5
40°	1908.1	1443.7	330.8	211.7	185.3	174.6	176.4	182.7	189.7	194.7	195.3
42.5°	2045.5	1487.2	294.3	206.1	178.3	164.5	161.3	165.7	173.3	180.2	181.5
45°	2228.2	1559.6	290.5	208.0	175.2	156.3	150.0	154.4	164.5	175.8	177.7
47.5°	2464.5	1674.3	308.1	218.0	177.1	151.9	142.4	146.8	160.1	175.2	177.7
50°	2744.3	1833.1	340.9	233.2	185.9	151.9	139.3	143.0	156.9	173.9	176.4
52.5°	3073.9	2054.3	374.9	248.3	198.5	157.5	140.5	139.9	152.5	168.3	171.4
55°	3437.5	2329.1	407.7	261.5	205.4	165.1	143.7	136.1	146.2	158.8	161.3
57.5°	3865.4	2705.3	465.1	274.1	209.2	170.8	147.5	132.3	138.0	146.8	148.7
60°	4445.7	3257.9	576.6	295.5	216.1	173.3	148.1	128.6	127.9	134.2	134.9
62.5°	5202.6	3905.1	683.1	320.7	230.0	173.9	145.6	126.0	119.7	121.6	121.6
65°	5740.7	4143.3	652.2	342.2	242.6	173.3	143.0	124.1	113.4	110.3	110.3
67.5°	5434.5	3659.9	553.9	347.8	243.9	166.4	137.4	119.7	107.8	100.2	100.2
69°	4984.5	3208.1	508.5	337.8	233.8	158.2	131.1	115.3	104.0	95.2	95.2
70°	4617.8	2865.9	480.8	325.8	221.8	151.2	125.4	110.9	100.2	92.6	92.0
72.5°	3447.6	1912.5	410.9	281.0	182.1	127.9	109.6	98.9	90.1	85.1	85.1
75°	1819.3	958.5	336.5	229.4	140.5	102.1	90.1	83.2	78.1	77.5	76.9
77.5°	596.1	433.5	242.0	172.7	103.3	79.4	71.8	67.4	66.8	69.3	69.3
80°	322.0	259.0	155.6	116.6	71.8	59.2	55.5	54.8	56.7	60.5	60.5
82.5°	156.3	127.9	92.6	71.8	49.2	43.5	43.5	44.1	46.6	51.0	51.0
85°	67.4	60.5	53.6	40.3	30.2	27.1	30.9	34.0	35.9	39.1	40.3
87.5°	32.1	28.4	24.6	15.8	13.2	13.9	16.4	20.2	23.9	26.5	27.1
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)