

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: P271319

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7027-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9756.9 lumens
Efficiency: N/A
Efficacy: 76.2 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): 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

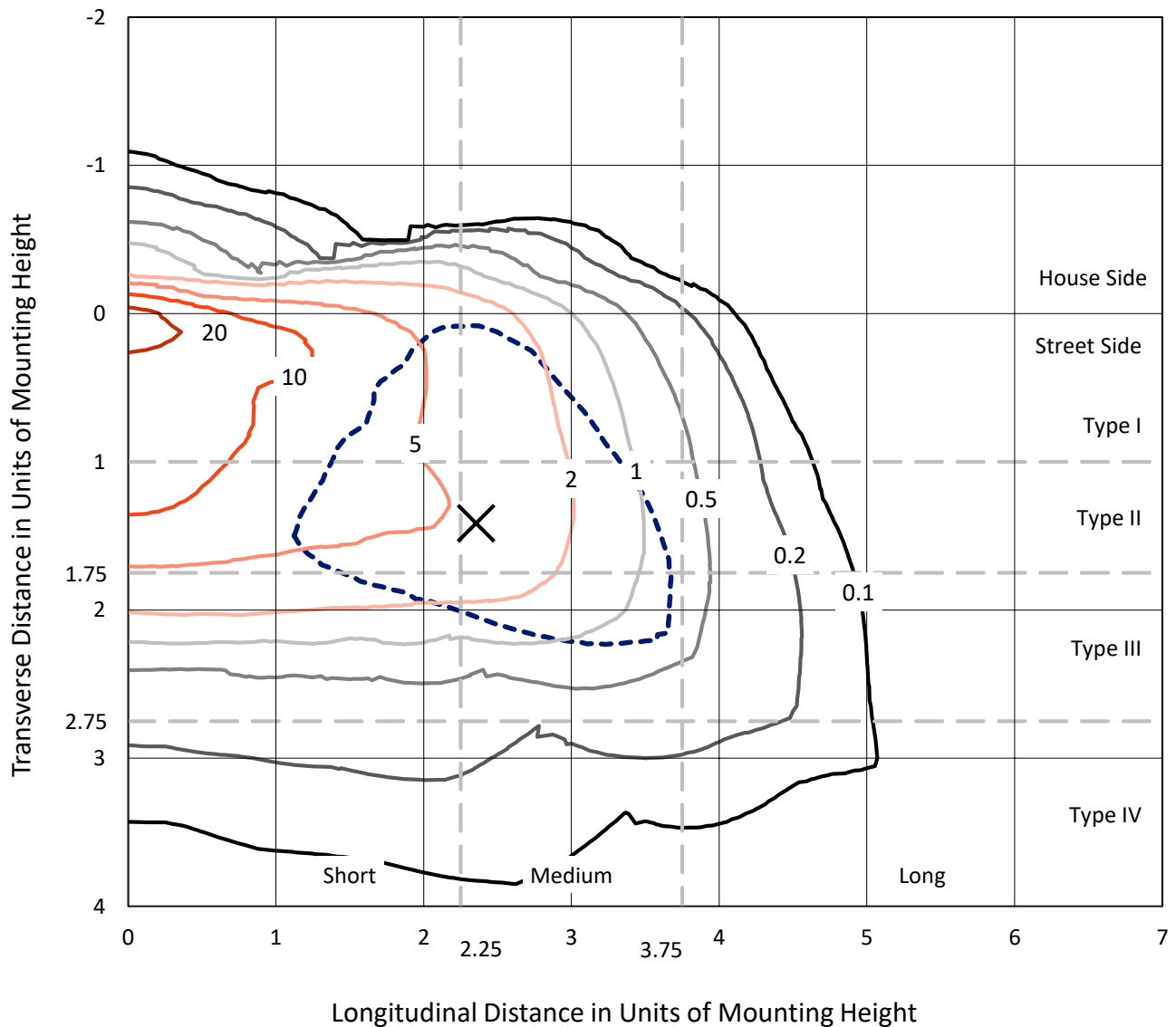


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

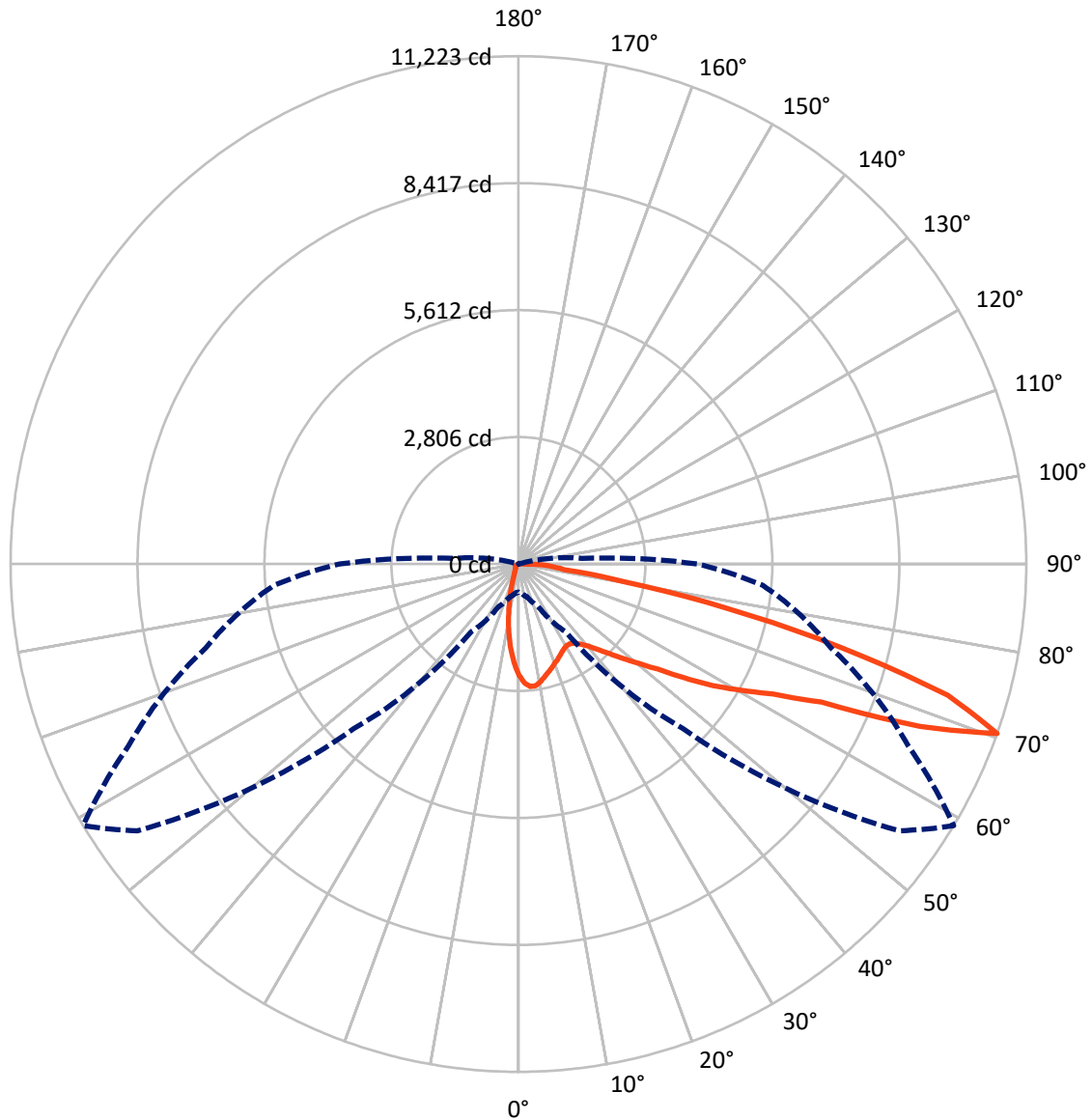


Based on 10 foot mounting height. Maximum calculated value = 26.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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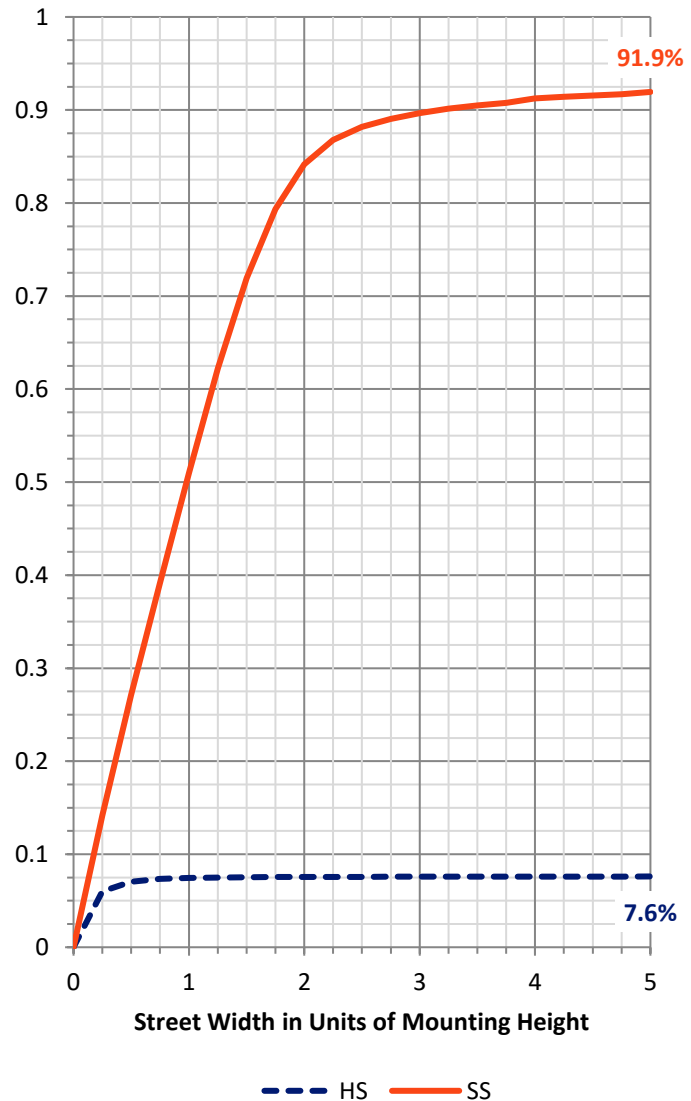
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.0	0.0	750.0
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	9006.9	0.0	9006.9
	% Fixture	92.3	0.0	92.3
Total	Lumens	9756.9	0.0	9756.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	2.1
10°-20°	425.5	4.4
20°-30°	576.0	5.9
30°-40°	831.3	8.5
40°-50°	1380.6	14.1
50°-60°	2111.7	21.6
60°-70°	2626.5	26.9
70°-80°	1451.9	14.9
80°-90°	150.5	1.5
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°	9756.9	100.0
0°-180°	9756.9	100.0



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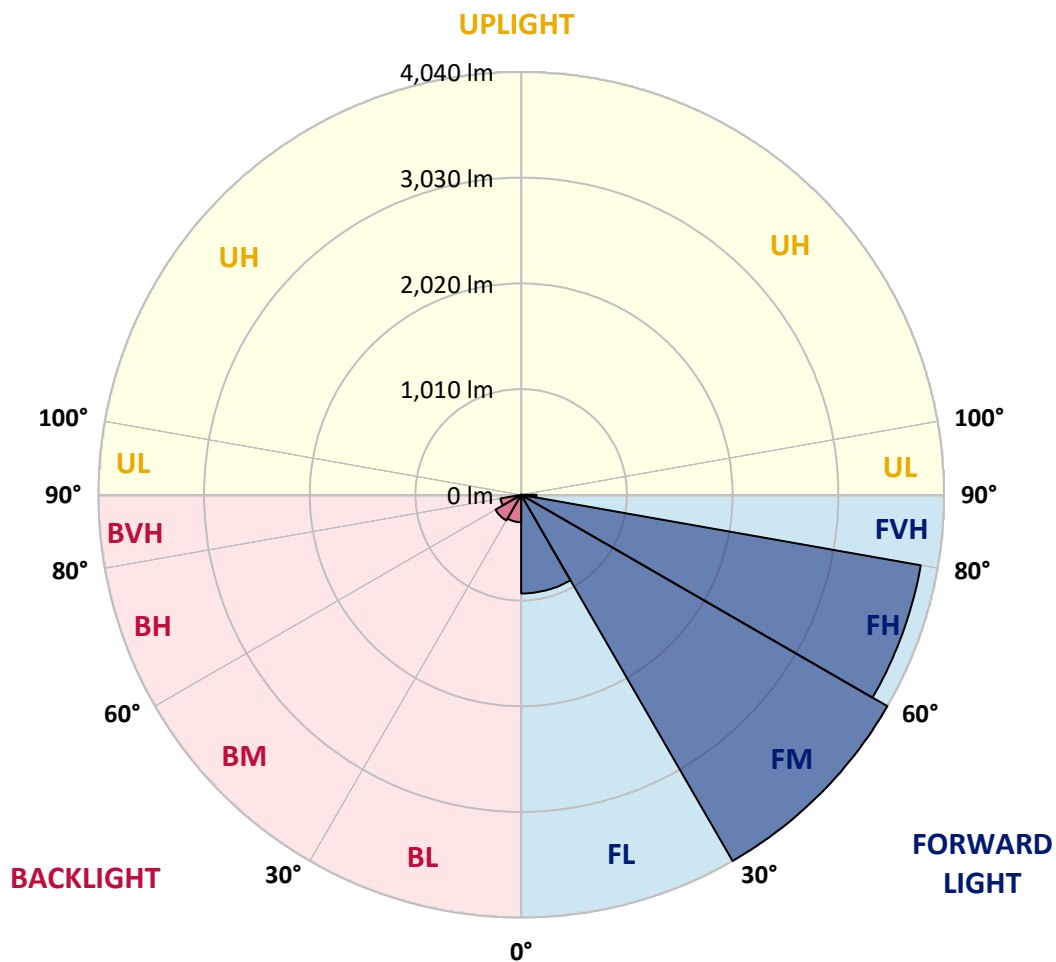
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.0	9.7			
FM	(30°-60°)	4040.4	41.4			
FH	(60°-80°)	3877.2	39.7			G2/5000
FVH	(80°-90°)	146.2	1.5			G2/225
BL	(0°-30°)	261.4	2.7	B1/500		
BM	(30°-60°)	283.1	2.9	B1/1000		
BH	(60°-80°)	201.2	2.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1
2.5°	2788.8	2784.3	2766.1	2762.3	2741.6	2700.5	2652.7	2633.6	2594.6	2532.7	2464.2
5°	2835.2	2837.3	2838.9	2830.7	2827.9	2794.0	2741.0	2718.1	2665.9	2564.3	2439.2
7.5°	2661.5	2667.3	2685.8	2693.8	2729.2	2742.4	2731.3	2716.7	2675.4	2555.5	2379.6
10°	2478.2	2489.3	2509.1	2522.4	2565.7	2601.1	2646.0	2649.7	2640.8	2526.0	2312.5
12.5°	2320.7	2331.0	2353.1	2379.6	2423.7	2469.4	2536.4	2559.9	2589.4	2506.9	2264.7
15°	2185.2	2188.2	2209.7	2242.7	2300.7	2363.4	2442.9	2477.4	2534.8	2499.5	2227.9
17.5°	2066.8	2067.4	2081.6	2111.6	2182.3	2264.7	2357.5	2403.1	2476.0	2489.3	2195.5
20°	1988.8	1987.9	1988.8	2004.9	2067.4	2165.5	2278.0	2325.8	2419.3	2476.7	2162.5
22.5°	1962.3	1958.6	1941.6	1935.8	1975.6	2061.6	2196.4	2258.9	2368.6	2473.0	2138.1
25°	1994.6	1992.4	1956.4	1922.6	1926.1	1980.0	2113.2	2189.7	2328.8	2486.2	2132.2
27.5°	2099.2	2094.8	2039.5	1973.2	1931.4	1940.9	2051.3	2131.6	2297.1	2518.7	2140.4
30°	2236.1	2236.8	2177.9	2097.7	1999.1	1944.7	2018.2	2093.9	2275.8	2567.3	2158.1
32.5°	2388.5	2387.7	2345.7	2252.9	2127.1	2012.4	2033.0	2097.0	2278.7	2638.7	2192.0
35°	2545.9	2537.8	2523.9	2442.1	2294.9	2130.8	2099.9	2146.9	2309.6	2732.9	2249.3
37.5°	2727.8	2724.7	2738.8	2652.7	2502.5	2305.2	2217.6	2249.3	2387.7	2872.1	2342.1
40°	3017.0	3000.8	3007.4	2890.3	2736.5	2540.0	2382.6	2390.6	2512.1	3056.0	2488.6
42.5°	3568.2	3502.9	3379.9	3160.4	2994.2	2800.6	2598.2	2584.2	2688.0	3279.1	2681.4
45°	4227.1	4152.0	3842.1	3458.7	3251.8	3080.3	2864.7	2827.1	2904.4	3544.7	2930.1
47.5°	4776.8	4695.9	4285.2	3769.9	3513.8	3368.9	3159.8	3115.6	3163.4	3853.1	3229.0
50°	4964.6	4919.6	4559.0	4029.0	3778.0	3692.7	3530.0	3456.4	3468.1	4185.8	3577.8
52.5°	4878.3	4863.0	4621.5	4206.5	4022.4	4050.4	3935.6	3858.3	3845.0	4549.3	3963.5
55°	4696.6	4689.2	4571.5	4305.0	4238.1	4377.9	4504.6	4437.4	4312.5	4935.7	4282.2
57.5°	4436.8	4464.8	4549.3	4494.8	4503.1	4723.8	5032.9	5067.6	4880.6	5243.4	4518.5
60°	3742.7	3817.7	4205.7	4698.9	5076.4	5299.5	5599.0	5663.8	5362.0	5454.0	4791.6
62.5°	2766.7	2874.1	3426.9	4333.1	5392.2	6393.9	6351.9	6323.2	5821.2	5735.9	5288.4
65°	1625.2	1751.1	2218.4	3385.7	4916.0	7097.5	7757.8	7360.4	6521.2	6321.7	6079.5
67.5°	809.6	810.5	1021.6	1787.1	3633.0	6606.7	9809.9	9580.2	8009.5	7185.2	6391.7
70°	622.6	639.7	756.0	1038.5	1837.2	5145.6	10280.2	11223.0	9505.1	7146.8	5423.1
72.5°	527.8	538.8	672.7	903.9	1373.4	2824.9	8899.2	9920.3	9070.0	6038.3	3997.4
75°	379.9	388.6	595.4	820.0	1264.5	1401.4	6104.6	7357.4	6805.3	4247.6	2199.9
77.5°	94.2	93.5	207.6	665.4	1131.2	1167.3	3502.9	4718.0	3904.7	1739.3	565.3
80°	42.0	40.5	47.2	139.9	1052.5	1101.9	1540.6	2382.6	1497.8	281.9	173.0
82.5°	29.5	27.9	29.5	51.6	351.9	1022.4	931.1	1032.6	548.3	96.4	73.7
85°	9.5	8.9	16.2	43.4	98.6	589.6	908.2	771.4	407.8	41.2	49.2
87.5°	1.4	1.4	5.8	23.5	28.7	196.5	532.9	534.3	183.3	24.3	22.1
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°	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1	2467.1
2.5°	2429.6	2386.2	2325.2	2264.0	2208.8	2152.2	2106.5	2085.1	2075.7	2062.4	2033.7
5°	2373.7	2294.9	2161.1	2029.2	1906.4	1788.5	1687.7	1630.3	1568.5	1565.6	1535.4
7.5°	2283.9	2172.0	1960.8	1756.1	1568.5	1388.9	1234.4	1134.2	1065.7	1023.1	993.6
10°	2183.8	2040.3	1760.6	1472.9	1217.5	977.4	778.7	649.1	570.5	530.7	507.8
12.5°	2104.3	1924.0	1563.3	1201.3	881.1	605.7	421.0	326.9	284.9	268.7	261.2
15°	2035.9	1817.2	1378.5	958.3	588.1	348.2	243.6	212.7	206.2	206.2	205.4
17.5°	1966.7	1714.2	1199.0	719.8	370.2	228.2	192.1	187.7	188.5	190.6	190.6
20°	1901.2	1616.3	1026.0	513.0	242.9	182.5	174.5	173.0	175.2	178.1	177.3
22.5°	1848.2	1530.3	864.1	352.6	186.9	165.6	160.4	158.2	159.7	162.0	161.2
25°	1810.7	1456.6	715.4	245.9	162.7	150.8	144.9	142.0	140.6	142.0	141.4
27.5°	1787.7	1394.8	575.5	184.7	145.7	136.2	128.7	122.9	119.3	119.3	117.8
30°	1773.1	1336.6	451.2	153.2	131.7	121.5	111.1	103.0	97.1	95.7	95.0
32.5°	1772.4	1286.6	337.1	135.5	118.4	106.7	94.2	83.9	77.3	75.7	75.1
35°	1790.7	1246.0	248.0	122.2	106.7	92.7	78.7	67.7	61.9	61.9	61.1
37.5°	1838.7	1222.6	187.7	111.8	97.1	80.9	66.3	56.0	50.8	52.2	52.2
40°	1927.7	1218.1	153.2	103.8	89.0	70.6	53.7	45.6	43.4	45.6	45.6
42.5°	2063.9	1241.6	136.2	97.8	81.7	60.4	44.8	38.9	38.3	40.5	40.5
45°	2241.2	1288.1	126.7	92.7	73.7	50.0	37.5	33.9	33.1	36.0	36.0
47.5°	2456.1	1350.6	117.8	86.9	65.4	41.2	31.6	28.7	28.7	31.6	32.3
50°	2710.7	1435.2	109.0	80.9	58.8	34.6	26.5	24.3	25.1	27.9	28.7
52.5°	3003.8	1539.1	100.8	75.7	51.6	27.9	22.1	20.7	21.3	24.3	25.1
55°	3256.1	1629.5	91.3	70.6	42.0	22.7	18.3	17.6	18.3	22.1	22.1
57.5°	3476.4	1716.4	82.5	62.5	33.1	18.3	14.7	14.7	16.2	19.9	20.7
60°	3768.5	1853.4	75.1	53.0	25.1	14.0	11.8	12.4	14.7	17.6	18.3
62.5°	4286.0	2086.0	65.4	44.1	18.3	11.0	9.5	10.3	13.2	16.9	17.6
65°	4933.6	2305.9	54.4	36.8	14.0	8.1	7.4	9.5	13.2	16.9	17.6
67.5°	4867.3	2005.6	42.7	29.5	10.3	6.6	5.8	8.9	12.4	16.9	17.6
70°	3947.3	1405.8	31.6	19.9	8.1	5.8	5.8	8.9	12.4	16.2	16.9
72.5°	2738.0	782.5	24.3	13.2	7.4	5.8	5.1	8.1	11.8	16.2	16.9
75°	1302.8	239.9	19.1	9.5	6.6	5.1	4.4	8.1	11.8	16.2	16.9
77.5°	250.3	61.1	15.5	8.1	5.8	5.1	4.4	7.4	11.8	15.5	16.2
80°	84.6	27.2	12.4	7.4	5.8	5.1	4.4	7.4	11.0	14.7	15.5
82.5°	46.4	15.5	11.0	6.6	5.8	4.4	3.7	6.6	10.3	14.7	15.5
85°	36.0	11.0	8.9	6.6	5.8	4.4	3.7	6.6	10.3	14.0	14.7
87.5°	18.3	8.1	7.4	6.6	5.8	4.4	3.7	5.8	9.5	13.2	14.7
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)