

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: P198689

Luminaire Tested: **XNV2-AF-02-LED-U-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
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-RW-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13827.2 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

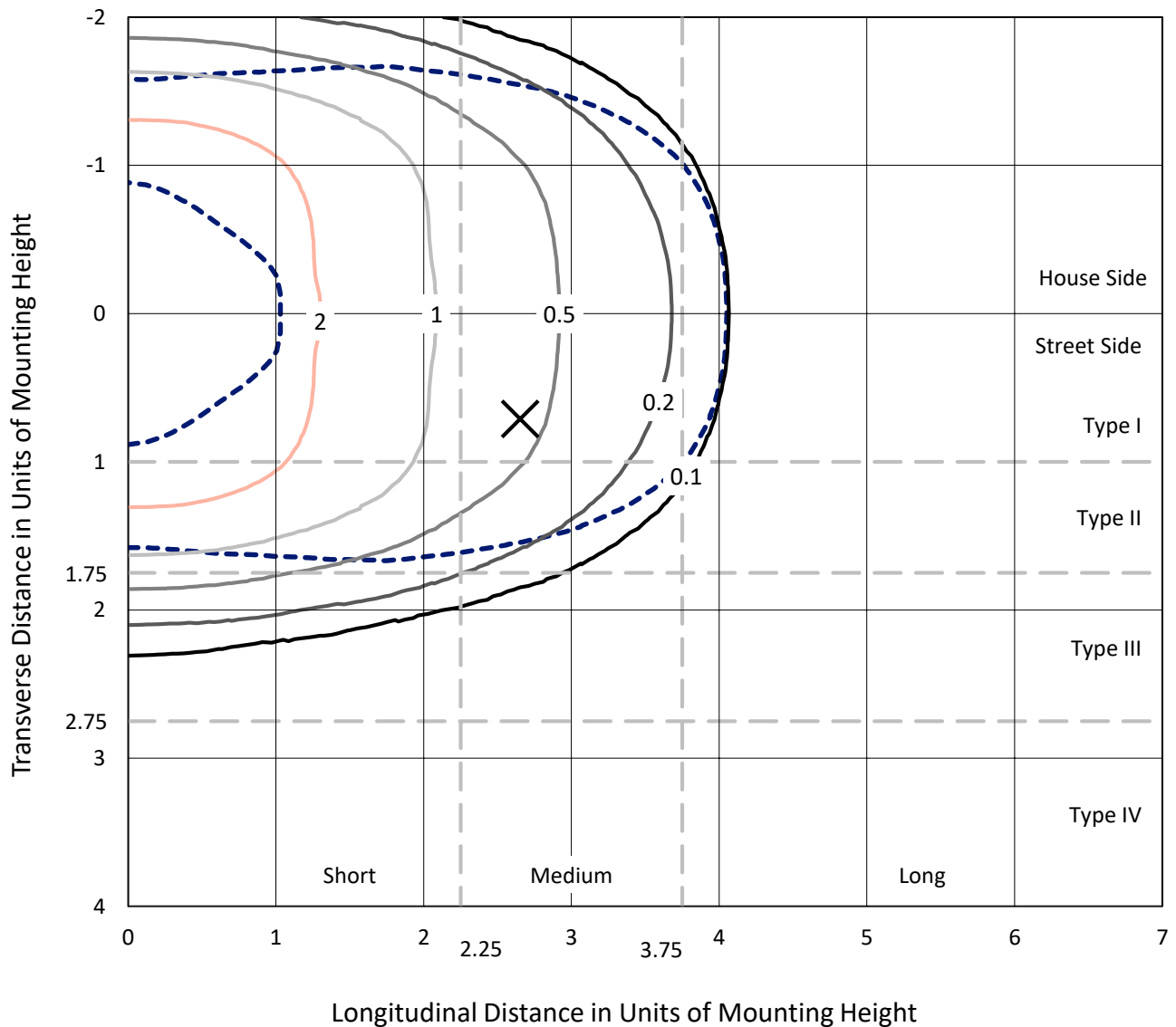
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

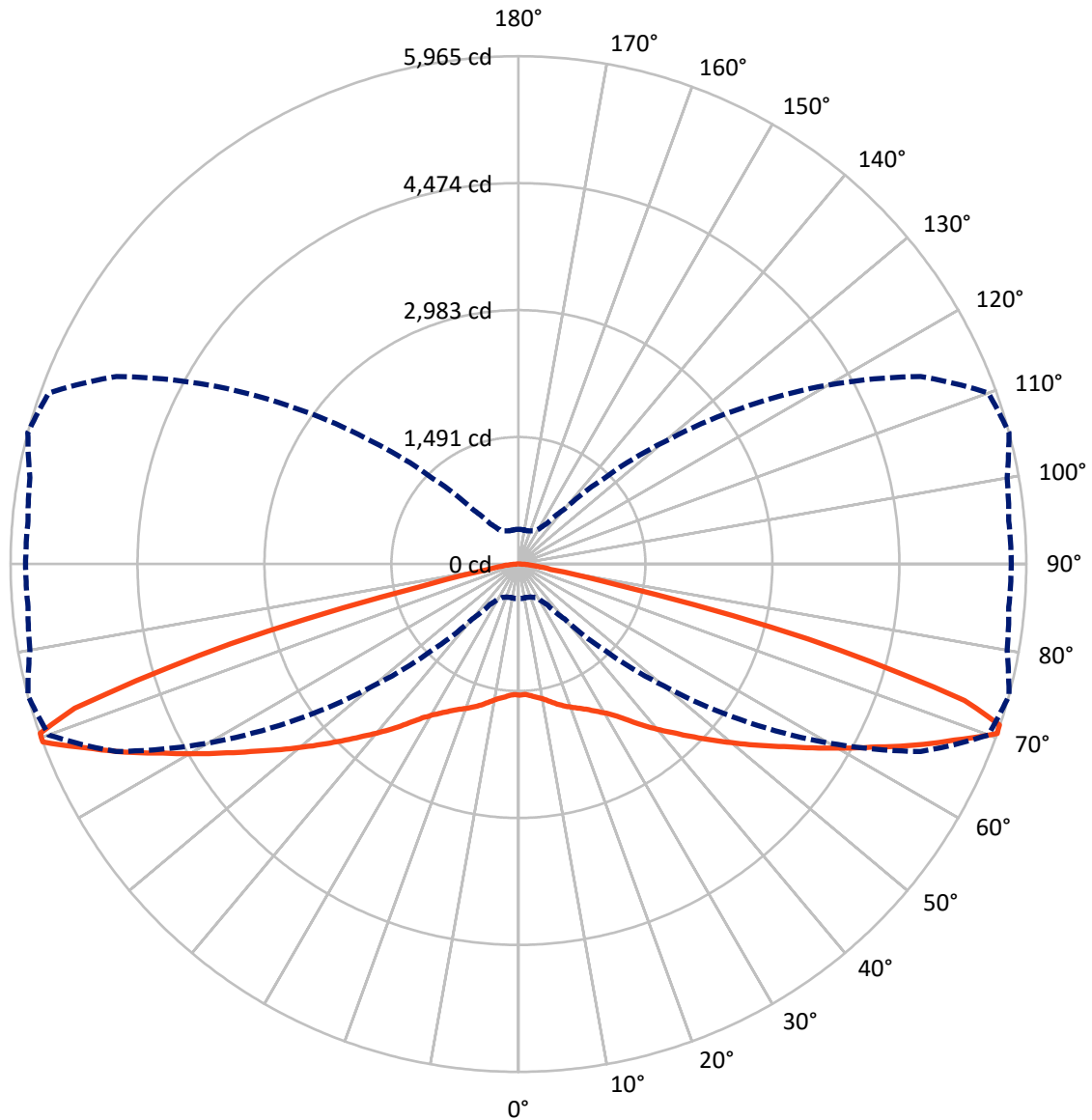
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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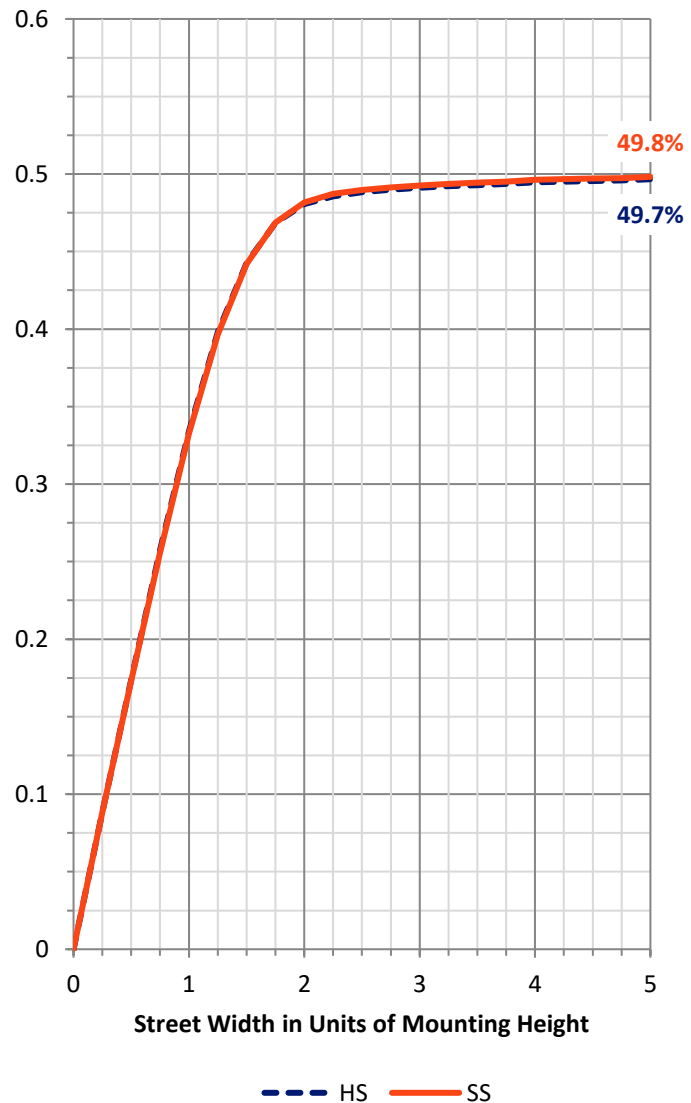
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6913.6	0.0	6913.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6913.6	0.0	6913.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13827.2	0.0	13827.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.1
10°-20°	458.0	3.3
20°-30°	860.3	6.2
30°-40°	1515.4	11.0
40°-50°	2511.6	18.2
50°-60°	3493.9	25.3
60°-70°	3298.4	23.9
70°-80°	1408.8	10.2
80°-90°	133.1	1.0
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°	13827.2	100.0
0°-180°	13827.2	100.0

Coefficient of Utilization



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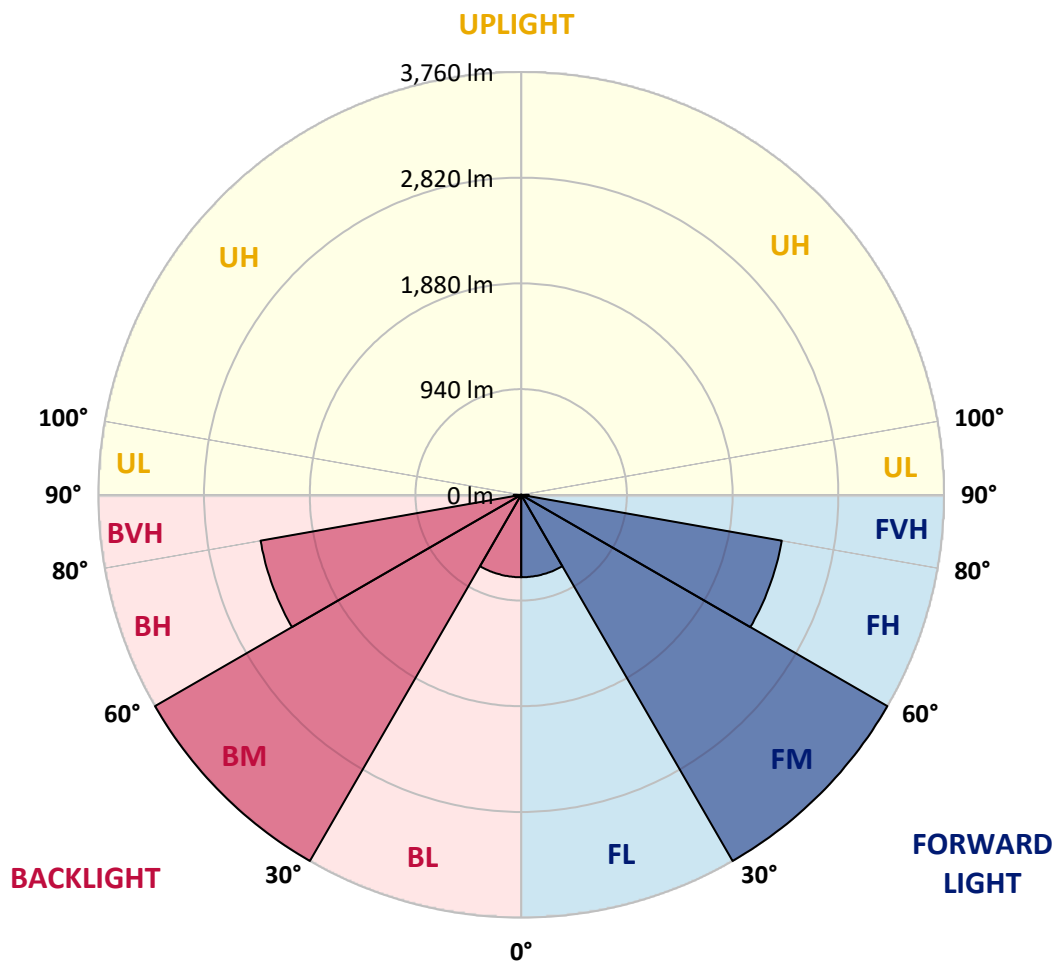
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.0	5.3			
FM	(30°-60°)	3760.5	27.2			
FH	(60°-80°)	2353.6	17.0			G2/5000
FVH	(80°-90°)	66.6	0.5			G1/100
BL	(0°-30°)	733.0	5.3	B2/1000		
BM	(30°-60°)	3760.5	27.2	B3/5000		
BH	(60°-80°)	2353.6	17.0	B3/2500		G2/5000
BVH	(80°-90°)	66.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1549.4	1548.4	1549.4	1546.7	1547.6	1546.7	1546.7	1543.2	1543.2	1541.5	1538.9
5°	1532.0	1533.7	1533.7	1533.7	1536.4	1536.4	1539.7	1540.7	1543.2	1545.9	1547.6
7.5°	1503.4	1504.2	1506.9	1508.6	1513.8	1520.7	1527.7	1535.4	1542.4	1551.1	1560.6
10°	1479.2	1480.8	1485.2	1489.5	1499.0	1507.7	1519.9	1532.0	1544.1	1558.9	1573.6
12.5°	1466.1	1468.8	1475.7	1482.6	1497.3	1508.6	1525.0	1544.1	1560.6	1574.4	1590.9
15°	1467.8	1468.8	1478.3	1487.8	1508.6	1524.2	1547.6	1570.1	1590.1	1605.6	1624.8
17.5°	1493.0	1494.7	1504.2	1518.2	1538.1	1558.0	1583.1	1606.5	1633.3	1651.6	1674.1
20°	1542.4	1545.0	1555.4	1570.1	1591.8	1612.6	1638.6	1662.8	1690.5	1712.2	1734.7
22.5°	1606.5	1610.8	1622.1	1640.3	1662.0	1687.2	1714.0	1739.1	1765.1	1786.8	1805.8
25°	1692.3	1697.5	1709.7	1727.9	1749.5	1776.4	1804.1	1830.1	1857.0	1873.4	1889.0
27.5°	1807.6	1816.2	1829.2	1844.0	1863.0	1891.6	1917.6	1939.3	1965.3	1983.5	1993.8
30°	1962.6	1974.8	1985.1	2000.8	2014.6	2045.0	2065.7	2083.1	2103.0	2113.4	2116.1
32.5°	2152.4	2163.6	2174.1	2185.3	2204.5	2232.2	2252.0	2261.6	2272.0	2270.2	2260.7
35°	2366.5	2375.1	2381.2	2401.1	2432.3	2450.5	2465.2	2468.7	2470.4	2452.2	2434.0
37.5°	2591.7	2602.2	2607.3	2638.5	2668.0	2688.8	2695.7	2703.6	2698.3	2668.0	2635.1
40°	2835.2	2846.5	2862.1	2888.9	2923.6	2943.5	2952.2	2951.3	2947.0	2911.5	2857.7
42.5°	3074.4	3088.3	3101.3	3148.0	3176.7	3210.4	3214.7	3213.9	3204.4	3163.7	3101.3
45°	3277.1	3293.6	3320.5	3372.5	3418.4	3459.1	3475.6	3481.6	3472.1	3428.8	3357.7
47.5°	3444.4	3455.6	3489.5	3552.7	3611.6	3671.5	3704.3	3727.7	3726.9	3695.7	3620.3
50°	3558.7	3571.7	3613.4	3684.5	3758.1	3828.3	3893.2	3946.1	3971.2	3948.7	3878.5
52.5°	3591.7	3608.2	3662.8	3747.7	3833.5	3927.9	4025.0	4118.5	4174.9	4188.8	4134.2
55°	3453.1	3471.3	3551.0	3668.8	3810.1	3949.6	4096.9	4230.3	4346.4	4400.1	4378.5
57.5°	3049.3	3062.3	3163.7	3316.2	3518.0	3763.2	4011.1	4255.5	4454.7	4594.3	4618.5
60°	2411.5	2428.0	2538.9	2700.1	2929.7	3239.9	3586.5	3986.8	4377.6	4697.4	4855.9
62.5°	1627.3	1638.6	1745.2	1892.5	2143.8	2442.7	2829.2	3336.0	3893.2	4464.3	4911.4
65°	854.4	854.4	926.3	1029.4	1229.6	1497.3	1893.4	2413.2	3076.1	3789.3	4537.1
67.5°	495.6	494.8	511.3	534.6	597.9	706.2	924.5	1306.7	1934.1	2764.2	3615.1
70°	409.0	406.4	403.8	403.8	413.4	429.7	471.4	576.2	843.1	1425.4	2224.3
71°	390.8	389.0	382.2	379.5	383.9	392.5	410.7	459.2	598.7	972.2	1661.1
72.5°	369.2	364.8	354.5	350.1	351.0	354.5	359.6	378.7	421.1	552.8	947.2
75°	336.2	325.8	312.8	306.8	304.1	303.3	303.3	308.5	318.0	333.6	388.2
77.5°	298.1	283.4	269.4	263.4	259.1	256.5	254.7	251.3	249.6	256.5	276.4
80°	252.2	236.6	225.3	221.9	219.2	214.0	207.1	200.2	195.8	199.3	211.4
82.5°	195.0	179.3	181.1	182.0	177.7	169.0	162.0	154.3	146.5	144.7	150.8
85°	155.1	147.3	142.1	153.3	143.8	133.4	123.9	110.9	92.7	76.2	83.2
87.5°	66.7	67.6	97.1	146.5	128.3	103.1	85.8	69.4	44.2	32.9	33.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1538.1	1538.1	1535.4	1533.7	1533.7	1533.7	1532.0	1532.9
5°	1548.4	1550.2	1551.9	1551.1	1553.7	1556.2	1555.4	1554.6
7.5°	1565.8	1570.9	1576.2	1578.8	1582.3	1585.7	1586.6	1584.0
10°	1583.1	1593.6	1601.3	1608.3	1612.6	1616.1	1618.6	1617.8
12.5°	1604.8	1619.5	1633.3	1647.3	1656.8	1662.0	1667.2	1665.5
15°	1640.3	1656.8	1674.1	1692.3	1707.0	1714.9	1722.6	1720.9
17.5°	1688.8	1703.5	1717.4	1735.6	1753.8	1762.4	1771.1	1770.3
20°	1749.5	1760.8	1768.6	1778.9	1796.3	1805.8	1813.6	1811.0
22.5°	1818.8	1822.3	1823.1	1826.6	1840.5	1851.7	1862.2	1864.7
25°	1894.2	1891.6	1886.4	1883.8	1893.4	1905.5	1918.4	1921.9
27.5°	1987.8	1979.1	1966.1	1955.7	1958.3	1973.9	1988.6	1992.1
30°	2105.6	2085.7	2058.0	2038.0	2034.5	2051.0	2066.7	2071.9
32.5°	2240.0	2213.1	2175.0	2144.6	2131.6	2146.4	2160.3	2168.0
35°	2399.3	2369.9	2324.0	2285.0	2264.2	2273.7	2298.0	2306.7
37.5°	2588.3	2547.6	2496.4	2447.0	2412.4	2414.1	2440.1	2450.5
40°	2797.2	2738.2	2673.2	2611.7	2561.4	2558.0	2581.3	2589.2
42.5°	3014.6	2939.2	2862.9	2782.4	2720.0	2708.8	2739.1	2739.9
45°	3248.6	3151.5	3057.1	2963.5	2898.5	2878.6	2908.0	2911.5
47.5°	3498.1	3376.8	3265.1	3163.7	3093.5	3062.3	3090.8	3096.1
50°	3758.1	3632.4	3502.5	3389.9	3307.5	3269.4	3303.1	3306.6
52.5°	4015.4	3896.7	3767.6	3638.5	3538.8	3495.5	3535.4	3547.5
55°	4274.5	4160.1	4038.8	3909.7	3784.1	3745.9	3789.3	3802.3
57.5°	4544.0	4434.0	4323.9	4193.9	4071.8	4013.6	4060.5	4078.7
60°	4841.2	4744.1	4640.2	4509.4	4388.9	4321.4	4361.1	4382.0
62.5°	5133.3	5113.3	5018.9	4882.9	4730.3	4662.7	4696.5	4711.2
65°	5157.5	5480.7	5476.4	5341.2	5128.1	5014.5	5024.0	5031.0
67.5°	4501.5	5243.2	5717.3	5759.7	5522.3	5344.6	5323.8	5328.2
70°	3187.0	4205.1	5211.2	5871.5	5965.1	5827.3	5782.2	5789.2
71°	2553.6	3608.2	4715.6	5603.7	5958.2	5918.3	5893.1	5911.3
72.5°	1629.9	2658.4	3736.4	4798.8	5478.9	5673.9	5702.5	5713.8
75°	591.9	1143.8	1935.8	2773.7	3515.5	4025.8	4306.6	4329.1
77.5°	318.0	409.9	633.4	946.2	1188.9	1318.8	1334.4	1340.5
80°	233.9	271.2	310.3	354.5	382.2	387.3	377.8	357.8
82.5°	165.5	187.2	202.7	218.4	229.7	220.1	182.8	139.5
85°	96.2	105.7	114.4	122.1	123.9	117.0	77.1	63.2
87.5°	38.2	41.6	40.7	45.9	44.2	40.7	30.3	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)