

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: P198497

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
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-5NQ-7030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12039 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - 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

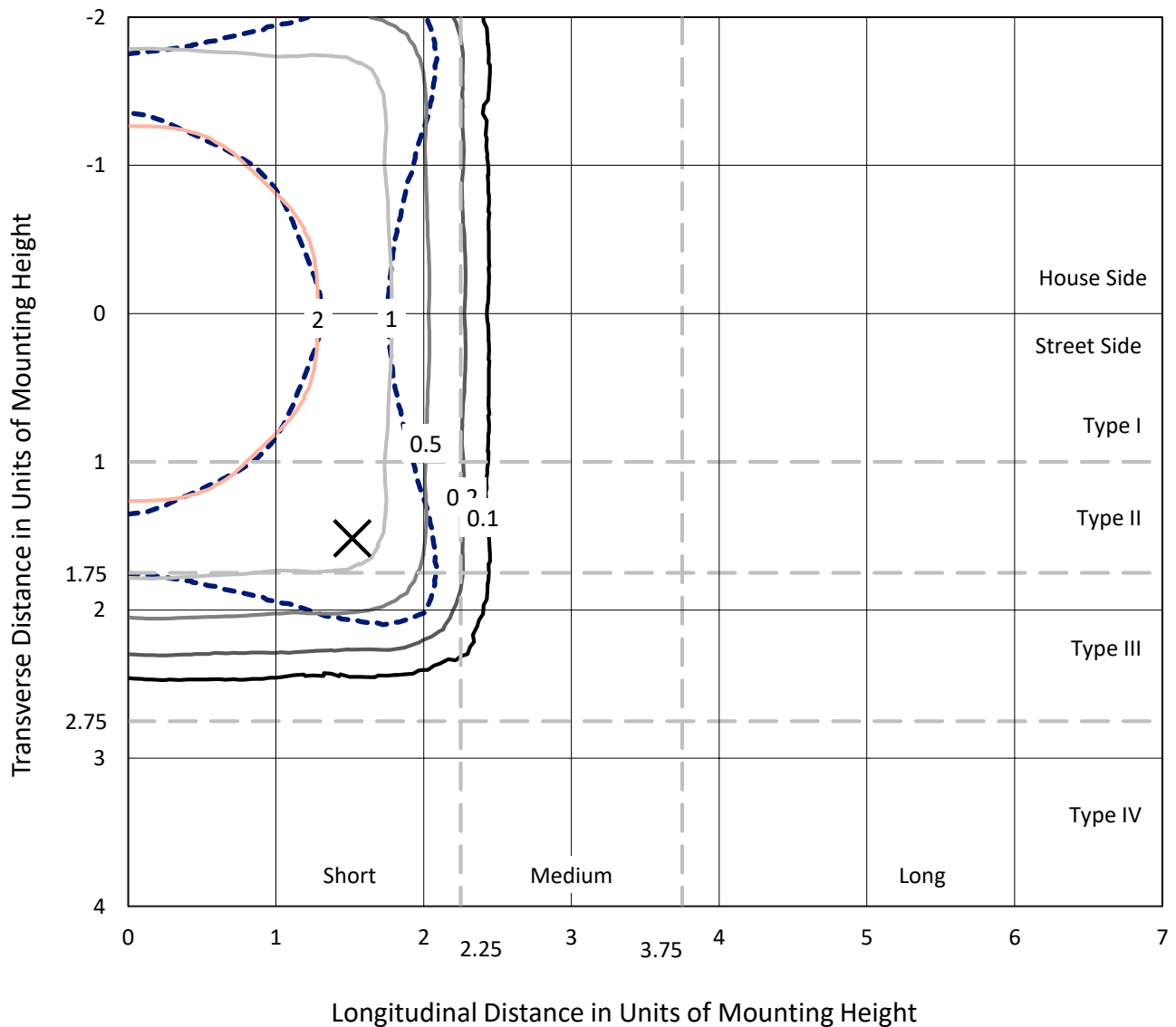


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Iso-Footcandle Lines of Horizontal Illumination

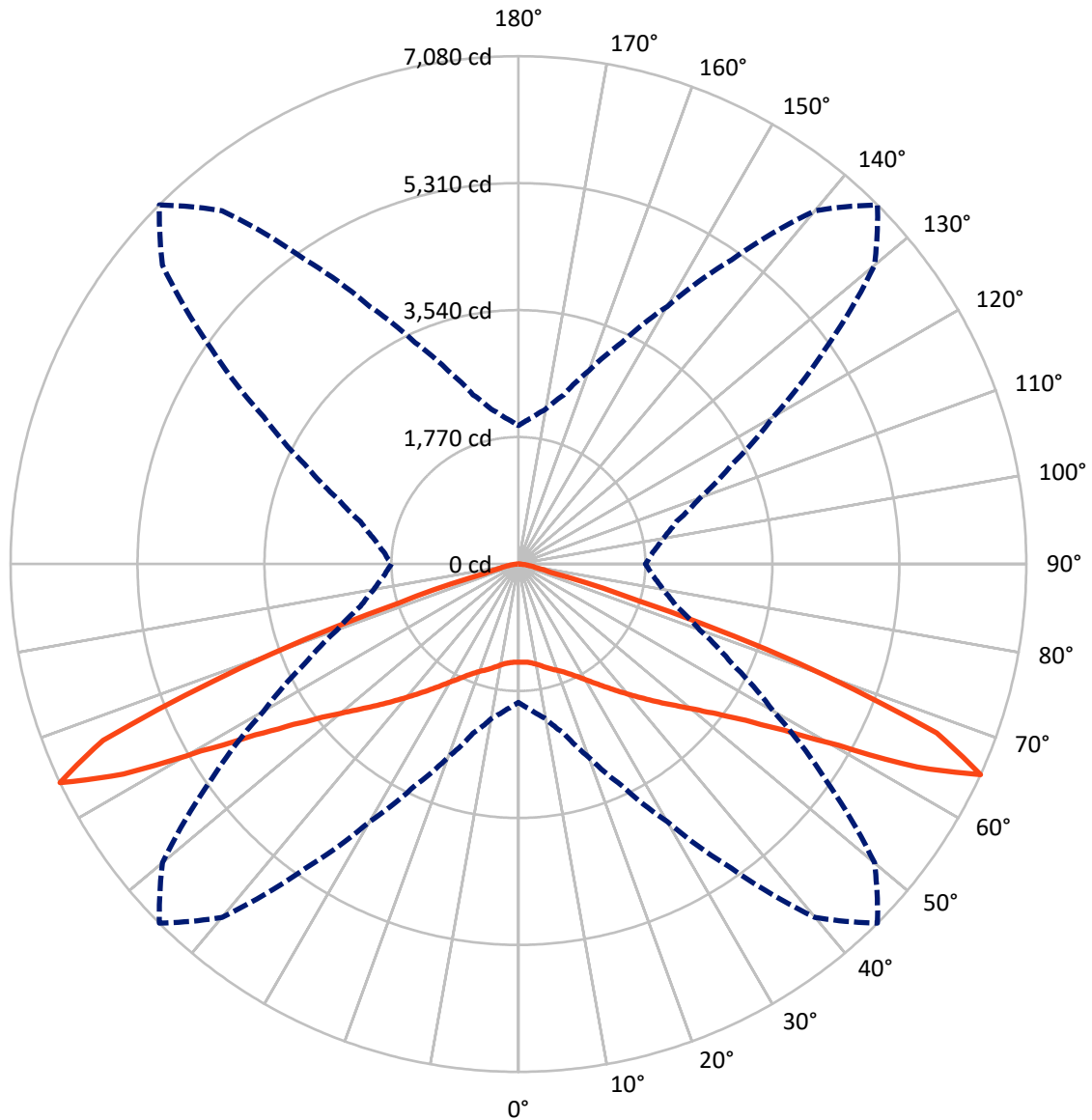
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6019.5	0.0	6019.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6019.5	0.0	6019.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12039.0	0.0	12039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.1
10°-20°	427.4	3.6
20°-30°	797.3	6.6
30°-40°	1344.4	11.2
40°-50°	2183.7	18.1
50°-60°	3421.5	28.4
60°-70°	3229.7	26.8
70°-80°	435.3	3.6
80°-90°	66.3	0.6
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°	12039.0	100.0
0°-180°	12039.0	100.0

Coefficient of Utilization



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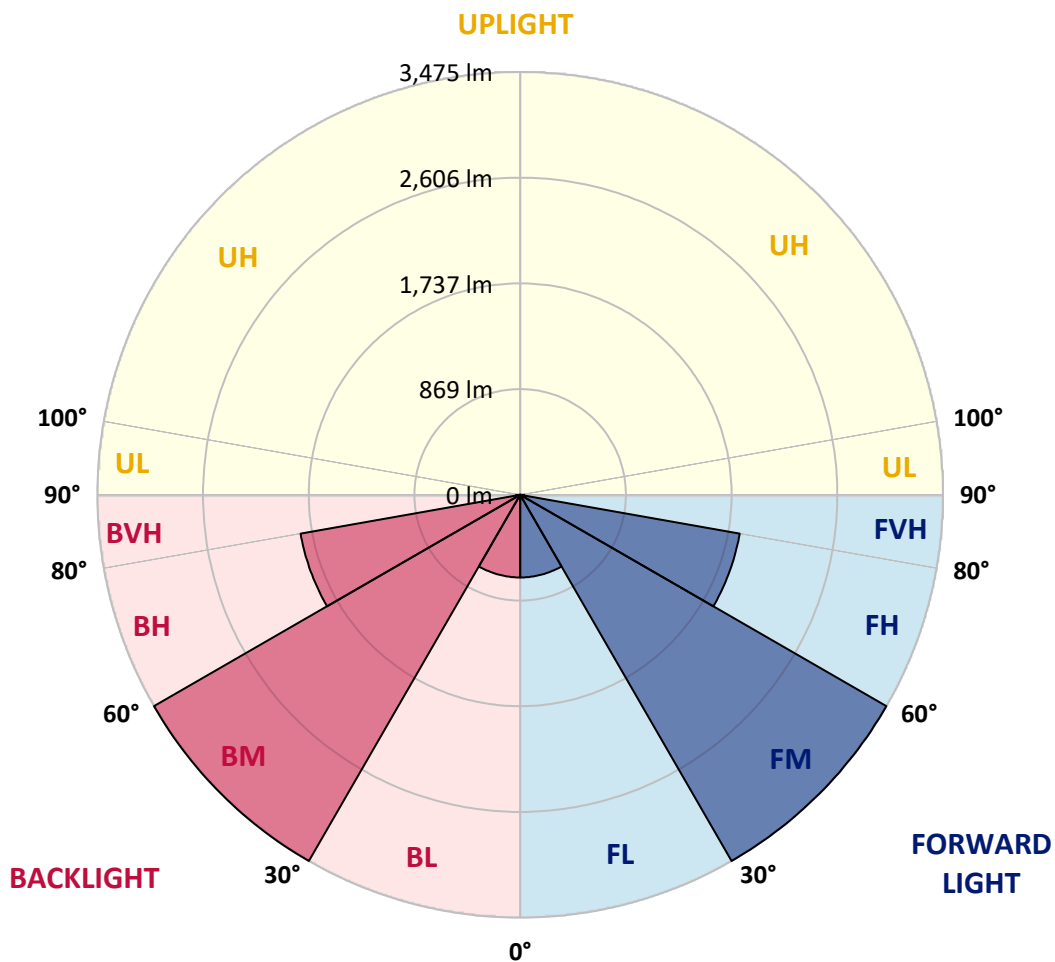
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	679.0	5.6			
FM	(30°-60°)	3474.8	28.9			
FH	(60°-80°)	1832.5	15.2			G2/5000
FVH	(80°-90°)	33.1	0.3			G1/100
BL	(0°-30°)	679.0	5.6	B2/1000		
BM	(30°-60°)	3474.8	28.9	B3/5000		
BH	(60°-80°)	1832.5	15.2	B3/2500		G2/5000
BVH	(80°-90°)	33.1	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4
2.5°	1380.7	1380.7	1382.9	1382.2	1379.2	1376.9	1374.7	1371.7	1370.2	1368.7	1367.9
5°	1388.2	1388.2	1390.4	1389.7	1387.4	1384.4	1382.9	1380.7	1378.4	1376.9	1377.7
7.5°	1406.9	1407.7	1408.4	1407.7	1405.4	1403.2	1400.2	1399.4	1396.4	1394.2	1395.7
10°	1435.4	1435.4	1436.2	1436.9	1435.4	1430.2	1430.2	1428.7	1425.7	1422.7	1423.4
12.5°	1466.9	1466.9	1467.7	1467.7	1467.7	1464.7	1465.4	1464.7	1460.9	1459.4	1460.9
15°	1497.7	1498.4	1498.4	1499.9	1499.9	1500.7	1503.7	1503.7	1502.2	1501.4	1501.4
17.5°	1533.7	1535.2	1535.9	1538.2	1538.9	1540.4	1543.4	1544.2	1544.9	1542.7	1543.4
20°	1581.7	1582.4	1584.7	1585.4	1588.4	1588.4	1589.9	1589.2	1587.7	1584.7	1584.7
22.5°	1635.7	1637.2	1641.7	1641.7	1645.4	1643.2	1643.9	1641.7	1637.9	1636.4	1634.9
25°	1706.2	1708.4	1712.2	1710.7	1712.2	1708.4	1708.4	1708.4	1706.2	1703.9	1703.2
27.5°	1795.4	1791.6	1795.4	1792.4	1791.6	1788.6	1789.4	1787.9	1785.6	1784.9	1781.9
30°	1888.4	1883.9	1886.1	1886.9	1885.4	1884.6	1881.6	1879.4	1875.6	1876.4	1874.1
32.5°	1994.9	1990.4	1992.6	1993.4	1991.9	1993.4	1992.6	1987.4	1982.9	1985.9	1985.9
35°	2121.6	2118.6	2124.6	2126.9	2122.4	2120.1	2117.1	2111.1	2104.4	2108.9	2109.6
37.5°	2273.9	2270.1	2274.6	2280.6	2272.4	2267.9	2255.9	2246.9	2242.4	2244.6	2247.6
40°	2432.1	2432.9	2445.6	2447.1	2438.1	2432.9	2420.9	2407.4	2394.6	2394.6	2398.4
42.5°	2598.6	2600.9	2615.9	2621.1	2618.1	2608.4	2591.9	2575.4	2558.9	2561.9	2566.4
45°	2786.8	2783.8	2799.6	2812.3	2810.1	2807.1	2791.3	2761.3	2746.3	2745.6	2753.1
47.5°	2984.8	2990.8	3007.3	3029.1	3028.3	3020.8	3000.6	2972.8	2945.1	2947.3	2956.3
50°	3215.8	3224.1	3251.8	3273.6	3276.6	3274.3	3250.3	3218.1	3179.1	3181.3	3193.3
52.5°	3422.8	3434.8	3467.1	3512.0	3539.8	3552.5	3536.8	3506.8	3467.1	3469.3	3482.1
55°	3610.3	3629.0	3677.0	3738.5	3794.0	3845.8	3869.0	3868.3	3839.0	3845.8	3862.3
57.5°	3728.0	3754.3	3827.0	3926.0	4036.3	4140.5	4230.5	4315.3	4334.0	4369.3	4369.3
60°	3569.8	3631.3	3728.0	3897.5	4114.3	4348.3	4601.7	4848.5	5007.5	5132.7	5065.2
62.5°	2981.1	3071.8	3207.6	3431.1	3768.5	4186.3	4695.5	5269.2	5867.7	6233.6	5965.2
65°	1928.9	2042.9	2190.6	2441.9	2867.1	3404.8	4146.5	5177.7	6430.1	7079.6	6479.6
67.5°	764.2	841.5	931.4	1109.9	1478.9	2006.9	2839.3	4111.3	5677.9	6290.6	5617.9
70°	365.2	378.0	395.2	433.5	525.7	709.5	1140.7	2025.6	3482.1	4127.8	3398.8
72.5°	264.0	266.2	274.5	287.2	314.2	351.7	427.5	619.5	1200.7	1745.9	1202.2
75°	200.2	203.2	207.7	214.5	228.7	246.7	275.2	330.0	411.0	474.0	410.2
77.5°	152.2	155.2	159.0	165.7	173.2	186.0	196.5	218.2	252.7	266.2	264.7
80°	111.0	116.2	122.2	128.2	133.5	139.5	140.2	150.7	170.2	183.0	179.2
82.5°	70.5	75.0	90.7	97.5	98.2	99.7	99.0	99.7	110.2	119.2	116.2
85°	45.0	48.0	56.2	63.7	62.2	65.2	65.2	63.7	59.2	51.0	60.7
87.5°	22.5	23.2	27.0	33.7	32.2	28.5	27.7	27.7	20.2	17.2	18.7
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°	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4	1369.4
2.5°	1365.7	1367.2	1364.9	1364.9	1364.2	1365.7	1363.4	1363.4
5°	1376.2	1378.4	1377.7	1377.7	1379.2	1380.7	1379.9	1379.2
7.5°	1394.9	1396.4	1397.9	1398.7	1400.2	1399.4	1400.9	1400.2
10°	1423.4	1421.9	1424.2	1421.9	1422.7	1421.2	1421.9	1421.9
12.5°	1459.4	1457.2	1455.7	1454.2	1454.2	1451.2	1451.2	1451.9
15°	1500.7	1496.9	1493.9	1492.4	1490.9	1490.9	1488.7	1490.2
17.5°	1541.2	1537.4	1532.2	1532.2	1529.9	1528.4	1526.9	1530.7
20°	1583.9	1580.2	1577.2	1576.4	1571.9	1570.4	1571.2	1575.7
22.5°	1633.4	1631.2	1631.2	1629.7	1626.7	1624.4	1624.4	1629.7
25°	1700.2	1695.7	1696.4	1697.2	1695.7	1695.7	1694.2	1697.9
27.5°	1781.9	1778.1	1780.4	1781.9	1780.4	1782.6	1780.4	1783.4
30°	1877.9	1875.6	1877.9	1880.1	1876.4	1876.4	1874.9	1877.1
32.5°	1992.6	1989.6	1991.1	1991.1	1985.9	1981.4	1975.4	1979.9
35°	2118.6	2114.9	2117.9	2120.1	2114.1	2109.6	2100.6	2104.4
37.5°	2257.4	2258.9	2262.6	2272.4	2270.9	2263.4	2256.6	2259.6
40°	2412.6	2420.1	2436.6	2443.4	2441.9	2434.4	2425.4	2426.9
42.5°	2588.1	2597.9	2615.1	2626.4	2621.1	2610.6	2599.4	2603.9
45°	2779.3	2794.3	2816.8	2828.1	2821.3	2810.1	2794.3	2802.6
47.5°	2981.8	3011.8	3041.8	3056.8	3054.6	3038.8	3018.6	3020.8
50°	3224.1	3263.8	3302.1	3317.1	3305.8	3281.8	3253.3	3252.6
52.5°	3525.5	3568.3	3599.8	3596.0	3568.3	3530.8	3498.6	3497.1
55°	3902.0	3916.3	3911.8	3879.5	3830.8	3772.3	3731.0	3724.3
57.5°	4357.3	4309.3	4238.8	4141.3	4031.8	3920.8	3845.8	3818.0
60°	4913.7	4697.0	4445.0	4179.5	3937.3	3755.8	3641.0	3571.3
62.5°	5373.4	4745.7	4182.5	3721.3	3344.1	3119.8	2963.1	2866.3
65°	5216.0	4100.0	3284.1	2689.3	2277.6	2045.9	1880.1	1769.9
67.5°	4029.5	2739.6	1906.4	1321.4	1001.9	848.2	741.0	671.2
70°	2031.6	1050.7	636.7	449.2	384.0	357.0	339.0	328.5
72.5°	596.2	398.2	330.7	292.5	269.2	252.7	242.2	237.0
75°	330.0	269.2	237.7	216.0	201.0	189.7	183.0	178.5
77.5°	227.2	195.7	180.0	165.7	153.7	145.5	140.2	135.7
80°	159.0	143.2	136.5	129.0	120.0	113.2	105.7	102.7
82.5°	105.7	99.0	97.5	91.5	86.2	78.7	65.2	60.7
85°	62.2	61.5	61.5	59.2	55.5	48.7	39.0	39.0
87.5°	21.7	22.5	23.2	24.7	24.0	20.2	16.5	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)