

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: P198495

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198495
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
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10974 lumens
Efficiency: N/A
Efficacy: 98.9 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 - G1

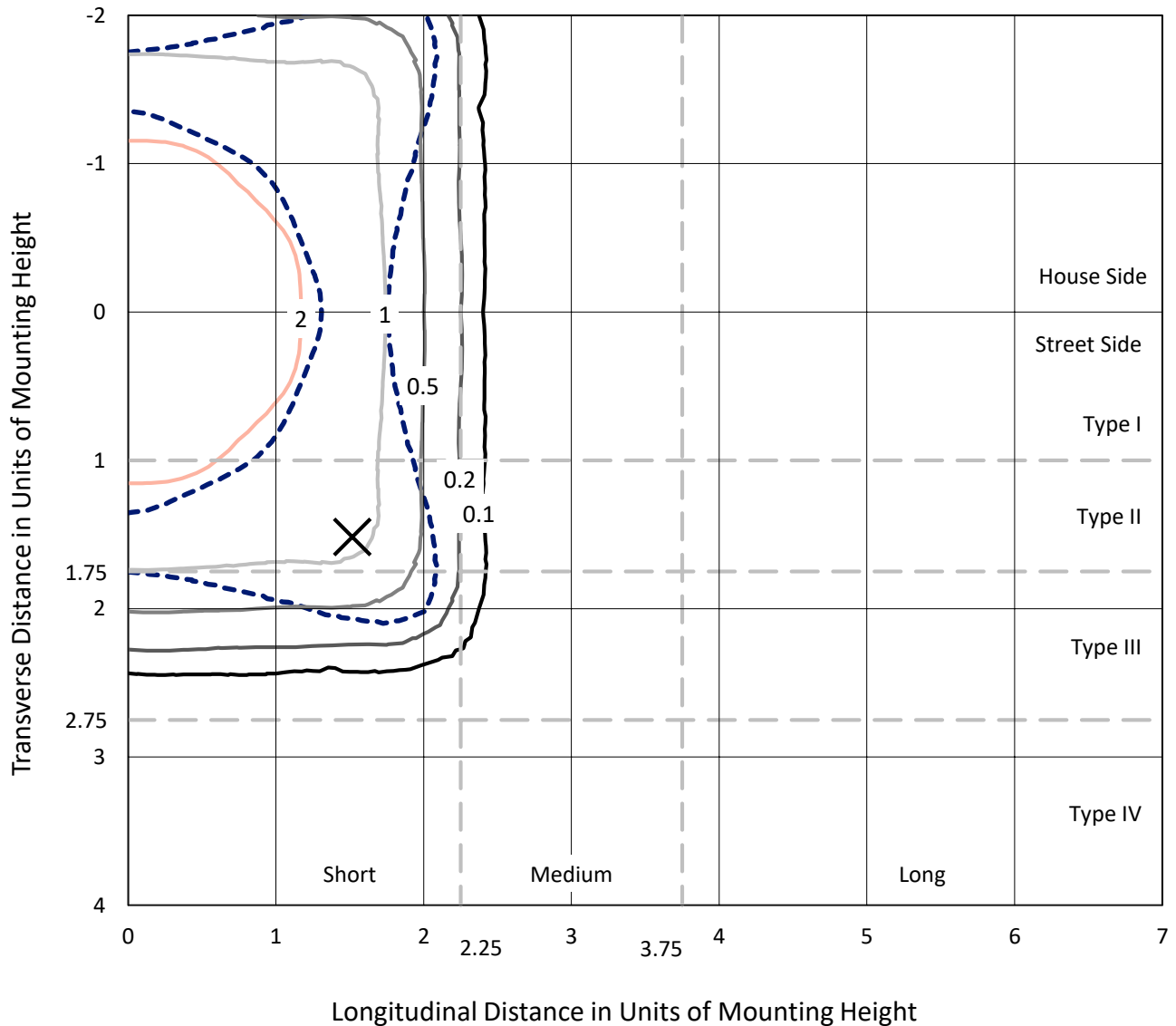
Input Watts (W): 111
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

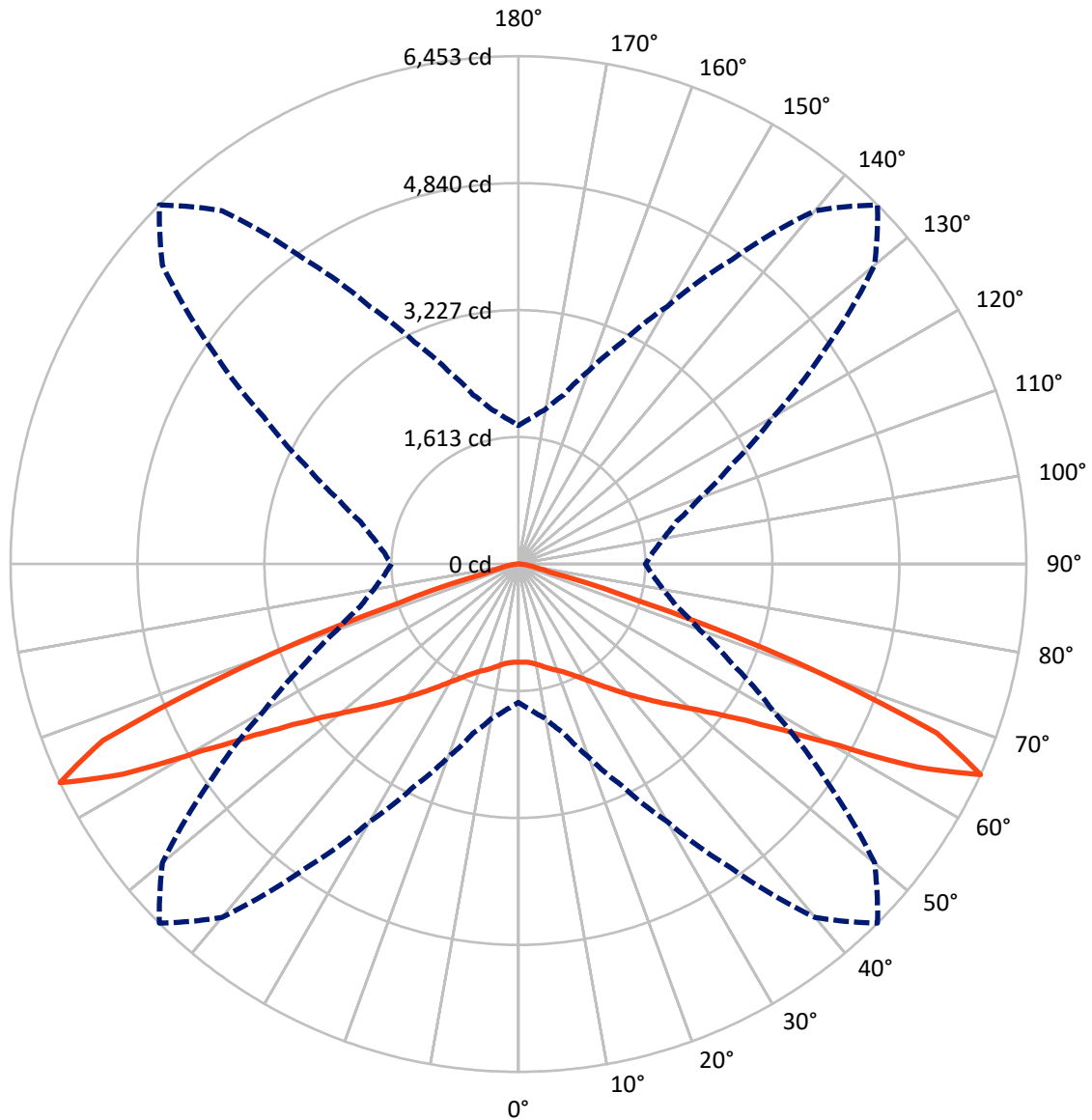
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	5487.0	0.0	5487.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5487.0	0.0	5487.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10974.0	0.0	10974.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.1
10°-20°	389.6	3.6
20°-30°	726.8	6.6
30°-40°	1225.5	11.2
40°-50°	1990.5	18.1
50°-60°	3118.8	28.4
60°-70°	2944.0	26.8
70°-80°	396.8	3.6
80°-90°	60.4	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°	10974.0	100.0
0°-180°	10974.0	100.0



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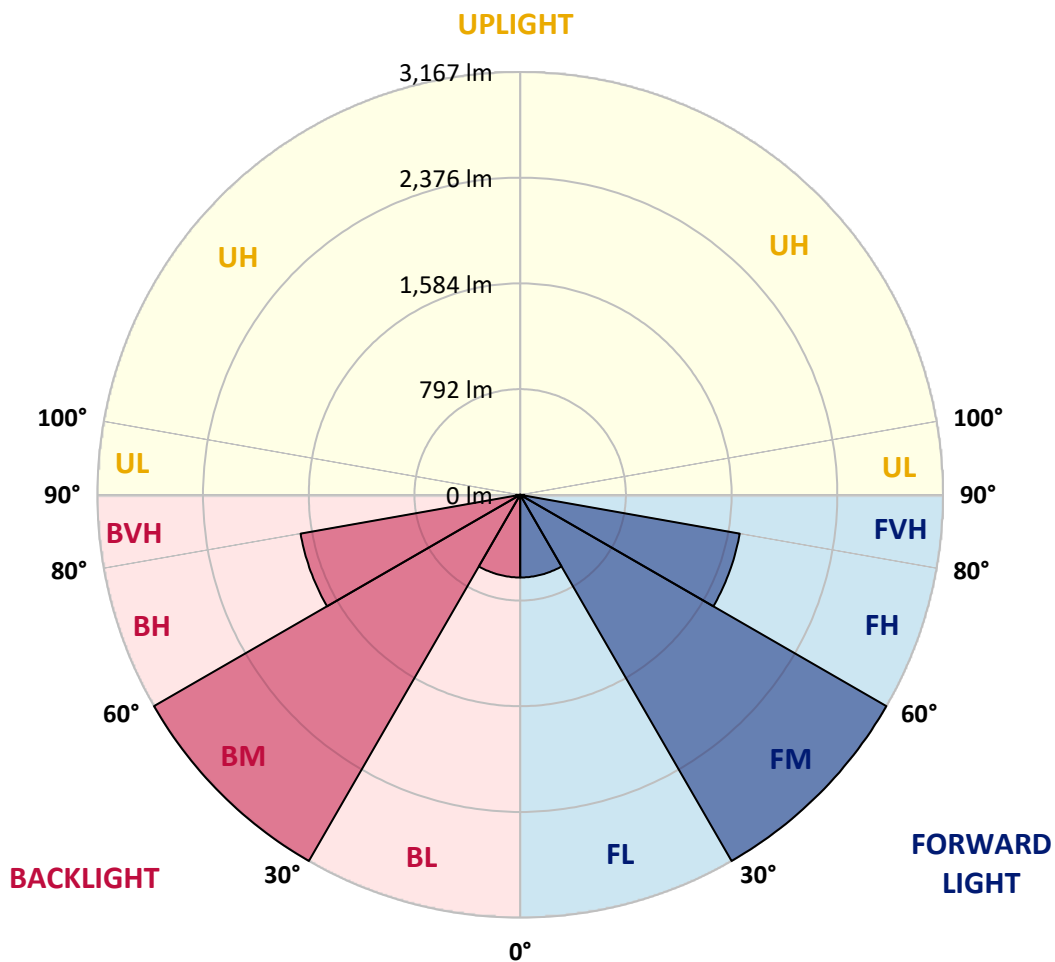
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.0	5.6			
FM	(30°-60°)	3167.4	28.9			
FH	(60°-80°)	1670.4	15.2			G1/1800
FVH	(80°-90°)	30.2	0.3			G1/100
BL	(0°-30°)	619.0	5.6	B2/1000		
BM	(30°-60°)	3167.4	28.9	B3/5000		
BH	(60°-80°)	1670.4	15.2	B3/2500		G1/1800
BVH	(80°-90°)	30.2	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1258.5	1258.5	1260.6	1259.9	1257.2	1255.1	1253.1	1250.3	1249.0	1247.6	1246.9
5°	1265.4	1265.4	1267.4	1266.7	1264.7	1262.0	1260.6	1258.5	1256.5	1255.1	1255.8
7.5°	1282.5	1283.1	1283.8	1283.1	1281.1	1279.0	1276.3	1275.6	1272.9	1270.8	1272.2
10°	1308.4	1308.4	1309.1	1309.8	1308.4	1303.7	1303.7	1302.3	1299.6	1296.8	1297.5
12.5°	1337.1	1337.1	1337.8	1337.8	1337.8	1335.1	1335.8	1335.1	1331.7	1330.3	1331.7
15°	1365.2	1365.9	1365.9	1367.2	1367.2	1367.9	1370.6	1370.6	1369.3	1368.6	1368.6
17.5°	1398.0	1399.4	1400.0	1402.1	1402.8	1404.1	1406.9	1407.6	1408.2	1406.2	1406.9
20°	1441.7	1442.4	1444.5	1445.2	1447.9	1447.9	1449.3	1448.6	1447.2	1444.5	1444.5
22.5°	1491.0	1492.3	1496.4	1496.4	1499.8	1497.8	1498.5	1496.4	1493.0	1491.6	1490.3
25°	1555.2	1557.3	1560.7	1559.3	1560.7	1557.3	1557.3	1557.3	1555.2	1553.2	1552.5
27.5°	1636.6	1633.2	1636.6	1633.8	1633.2	1630.4	1631.1	1629.7	1627.7	1627.0	1624.3
30°	1721.3	1717.2	1719.3	1720.0	1718.6	1717.9	1715.2	1713.1	1709.7	1710.4	1708.4
32.5°	1818.4	1814.3	1816.4	1817.0	1815.7	1817.0	1816.4	1811.6	1807.5	1810.2	1810.2
35°	1933.9	1931.2	1936.7	1938.7	1934.6	1932.6	1929.8	1924.4	1918.2	1922.3	1923.0
37.5°	2072.7	2069.3	2073.4	2078.9	2071.4	2067.2	2056.3	2048.1	2044.0	2046.1	2048.8
40°	2217.0	2217.6	2229.3	2230.6	2222.4	2217.6	2206.7	2194.4	2182.8	2182.8	2186.2
42.5°	2368.7	2370.8	2384.4	2389.2	2386.5	2377.6	2362.6	2347.5	2332.5	2335.2	2339.3
45°	2540.3	2537.6	2551.9	2563.6	2561.5	2558.8	2544.4	2517.1	2503.4	2502.7	2509.5
47.5°	2720.8	2726.3	2741.3	2761.1	2760.4	2753.6	2735.1	2709.8	2684.6	2686.6	2694.8
50°	2931.3	2938.9	2964.2	2984.0	2986.7	2984.7	2962.8	2933.4	2897.8	2899.9	2910.8
52.5°	3120.0	3131.0	3160.3	3201.4	3226.7	3238.3	3223.9	3196.6	3160.3	3162.4	3174.0
55°	3290.9	3308.0	3351.8	3407.8	3458.4	3505.6	3526.8	3526.1	3499.4	3505.6	3520.6
57.5°	3398.2	3422.2	3488.5	3578.7	3679.2	3774.2	3856.3	3933.5	3950.6	3982.7	3982.7
60°	3254.0	3310.1	3398.2	3552.7	3750.3	3963.6	4194.7	4419.6	4564.5	4678.7	4617.1
62.5°	2717.4	2800.1	2923.8	3127.5	3435.2	3815.9	4280.1	4803.1	5348.6	5682.2	5437.5
65°	1758.3	1862.2	1996.8	2225.8	2613.5	3103.6	3779.7	4719.7	5861.3	6453.3	5906.4
67.5°	696.6	767.0	849.0	1011.7	1348.1	1829.4	2588.2	3747.6	5175.6	5734.2	5121.0
70°	332.9	344.5	360.3	395.1	479.2	646.7	1039.8	1846.4	3174.0	3762.6	3098.1
72.5°	240.6	242.7	250.2	261.8	286.4	320.6	389.7	564.7	1094.5	1591.5	1095.8
75°	182.5	185.3	189.4	195.5	208.5	224.9	250.9	300.8	374.6	432.0	373.9
77.5°	138.8	141.5	144.9	151.1	157.9	169.5	179.1	198.9	230.4	242.7	241.3
80°	101.2	106.0	111.4	116.9	121.7	127.2	127.8	137.4	155.2	166.8	163.4
82.5°	64.3	68.4	82.7	88.9	89.6	90.9	90.2	90.9	100.5	108.7	106.0
85°	41.0	43.8	51.3	58.1	56.7	59.5	59.5	58.1	54.0	46.5	55.4
87.5°	20.5	21.2	24.6	30.8	29.4	26.0	25.3	25.3	18.5	15.7	17.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1244.9	1246.2	1244.2	1244.2	1243.5	1244.9	1242.8	1242.8
5°	1254.4	1256.5	1255.8	1255.8	1257.2	1258.5	1257.8	1257.2
7.5°	1271.5	1272.9	1274.3	1274.9	1276.3	1275.6	1277.0	1276.3
10°	1297.5	1296.1	1298.2	1296.1	1296.8	1295.4	1296.1	1296.1
12.5°	1330.3	1328.3	1326.9	1325.5	1325.5	1322.8	1322.8	1323.5
15°	1367.9	1364.5	1361.8	1360.4	1359.0	1359.0	1357.0	1358.3
17.5°	1404.8	1401.4	1396.6	1396.6	1394.6	1393.2	1391.8	1395.3
20°	1443.8	1440.4	1437.6	1437.0	1432.9	1431.5	1432.2	1436.3
22.5°	1488.9	1486.9	1486.9	1485.5	1482.8	1480.7	1480.7	1485.5
25°	1549.8	1545.7	1546.3	1547.0	1545.7	1545.7	1544.3	1547.7
27.5°	1624.3	1620.8	1622.9	1624.3	1622.9	1625.0	1622.9	1625.6
30°	1711.8	1709.7	1711.8	1713.8	1710.4	1710.4	1709.0	1711.1
32.5°	1816.4	1813.6	1815.0	1815.0	1810.2	1806.1	1800.6	1804.7
35°	1931.2	1927.8	1930.5	1932.6	1927.1	1923.0	1914.8	1918.2
37.5°	2057.7	2059.0	2062.5	2071.4	2070.0	2063.1	2057.0	2059.7
40°	2199.2	2206.0	2221.1	2227.2	2225.8	2219.0	2210.8	2212.2
42.5°	2359.2	2368.0	2383.8	2394.0	2389.2	2379.7	2369.4	2373.5
45°	2533.5	2547.1	2567.7	2577.9	2571.8	2561.5	2547.1	2554.7
47.5°	2718.0	2745.4	2772.7	2786.4	2784.4	2770.0	2751.5	2753.6
50°	2938.9	2975.1	3010.0	3023.6	3013.4	2991.5	2965.5	2964.8
52.5°	3213.7	3252.6	3281.3	3277.9	3252.6	3218.5	3189.1	3187.7
55°	3556.8	3569.8	3565.7	3536.3	3491.9	3438.6	3401.0	3394.8
57.5°	3971.8	3928.0	3863.8	3774.9	3675.1	3573.9	3505.6	3480.3
60°	4479.0	4281.5	4051.8	3809.8	3589.0	3423.5	3318.9	3255.4
62.5°	4898.1	4325.9	3812.5	3392.1	3048.2	2843.8	2701.0	2612.8
65°	4754.5	3737.3	2993.5	2451.4	2076.1	1864.9	1713.8	1613.3
67.5°	3673.1	2497.2	1737.7	1204.5	913.3	773.2	675.4	611.8
70°	1851.9	957.7	580.4	409.5	350.0	325.4	309.0	299.4
72.5°	543.5	363.0	301.5	266.6	245.4	230.4	220.8	216.0
75°	300.8	245.4	216.7	196.9	183.2	173.0	166.8	162.7
77.5°	207.1	178.4	164.1	151.1	140.1	132.6	127.8	123.7
80°	144.9	130.6	124.4	117.6	109.4	103.2	96.4	93.7
82.5°	96.4	90.2	88.9	83.4	78.6	71.8	59.5	55.4
85°	56.7	56.1	56.1	54.0	50.6	44.4	35.5	35.5
87.5°	19.8	20.5	21.2	22.6	21.9	18.5	15.0	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)