

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: P198975

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198975
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-7060
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 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: 12397 lumens
Efficiency: N/A
Efficacy: 111.7 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

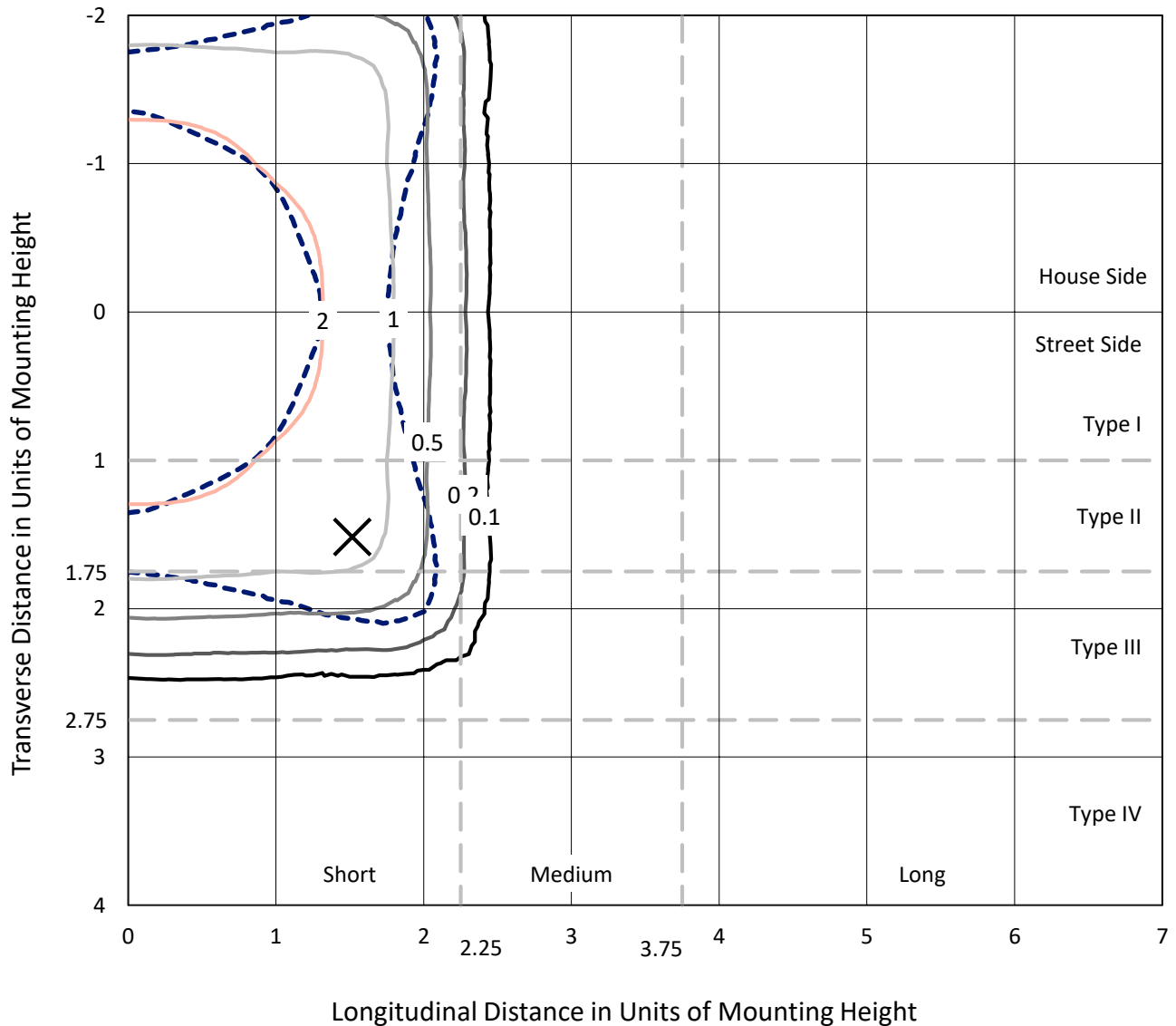
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

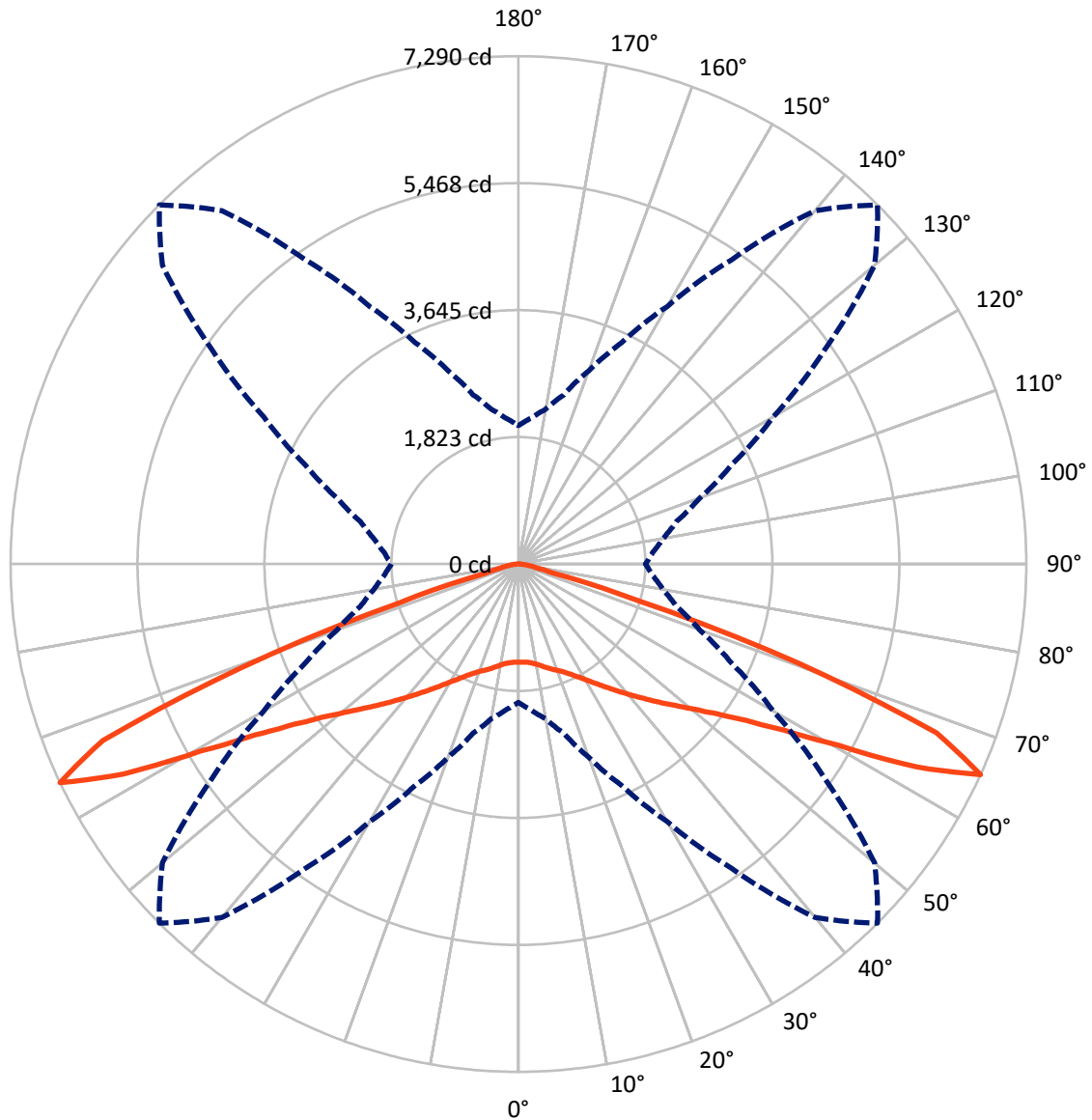
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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	6198.5	0.0	6198.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6198.5	0.0	6198.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12397.0	0.0	12397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.1
10°-20°	440.1	3.6
20°-30°	821.0	6.6
30°-40°	1384.4	11.2
40°-50°	2248.6	18.1
50°-60°	3523.2	28.4
60°-70°	3325.8	26.8
70°-80°	448.2	3.6
80°-90°	68.3	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°	12397.0	100.0
0°-180°	12397.0	100.0

Coefficient of Utilization



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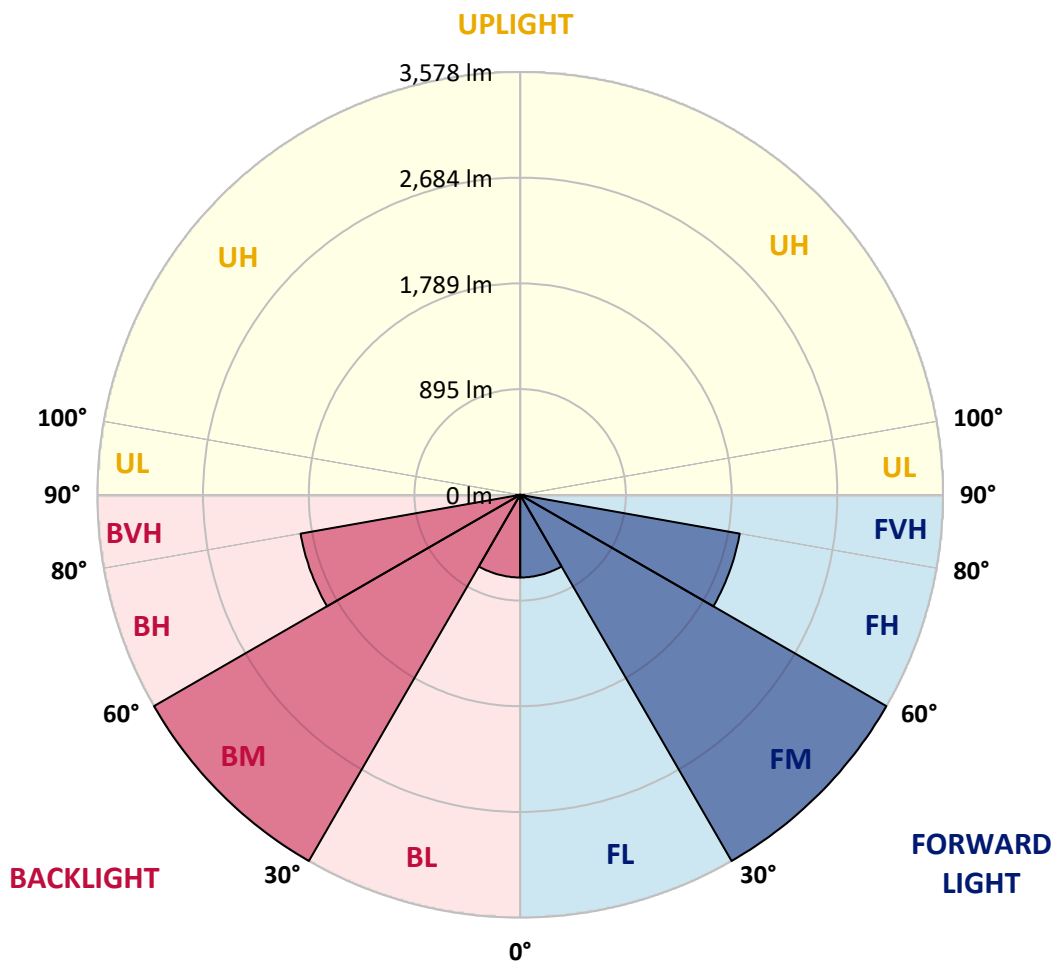
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.2	5.6			
FM (30°-60°)	3578.1	28.9			
FH (60°-80°)	1887.0	15.2			G2/5000
FVH (80°-90°)	34.1	0.3			G1/100
BL (0°-30°)	699.2	5.6	B2/1000		
BM (30°-60°)	3578.1	28.9	B3/5000		
BH (60°-80°)	1887.0	15.2	B3/2500		G2/5000
BVH (80°-90°)	34.1	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°	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1421.7	1421.7	1424.0	1423.3	1420.2	1417.9	1415.5	1412.5	1410.9	1409.4	1408.6
5°	1429.5	1429.5	1431.8	1431.0	1428.7	1425.6	1424.0	1421.7	1419.4	1417.9	1418.6
7.5°	1448.8	1449.5	1450.3	1449.5	1447.2	1444.9	1441.8	1441.0	1437.9	1435.6	1437.2
10°	1478.1	1478.1	1478.9	1479.6	1478.1	1472.7	1472.7	1471.2	1468.1	1465.0	1465.7
12.5°	1510.5	1510.5	1511.3	1511.3	1511.3	1508.2	1509.0	1508.2	1504.4	1502.8	1504.4
15°	1542.2	1543.0	1543.0	1544.5	1544.5	1545.3	1548.4	1548.4	1546.8	1546.1	1546.1
17.5°	1579.3	1580.8	1581.6	1583.9	1584.7	1586.2	1589.3	1590.1	1590.9	1588.5	1589.3
20°	1628.7	1629.5	1631.8	1632.6	1635.6	1635.6	1637.2	1636.4	1634.9	1631.8	1631.8
22.5°	1684.3	1685.8	1690.5	1690.5	1694.3	1692.0	1692.8	1690.5	1686.6	1685.1	1683.5
25°	1756.9	1759.2	1763.1	1761.5	1763.1	1759.2	1759.2	1759.2	1756.9	1754.6	1753.8
27.5°	1848.8	1844.9	1848.8	1845.7	1844.9	1841.8	1842.6	1841.1	1838.7	1838.0	1834.9
30°	1944.5	1939.9	1942.2	1943.0	1941.5	1940.7	1937.6	1935.3	1931.4	1932.2	1929.9
32.5°	2054.2	2049.6	2051.9	2052.7	2051.1	2052.7	2051.9	2046.5	2041.9	2044.9	2044.9
35°	2184.7	2181.6	2187.8	2190.1	2185.5	2183.2	2180.1	2173.9	2167.0	2171.6	2172.4
37.5°	2341.5	2337.6	2342.3	2348.4	2339.9	2335.3	2323.0	2313.7	2309.1	2311.4	2314.5
40°	2504.4	2505.2	2518.3	2519.9	2510.6	2505.2	2492.9	2478.9	2465.8	2465.8	2469.7
42.5°	2675.9	2678.2	2693.6	2699.0	2696.0	2685.9	2668.9	2651.9	2634.9	2638.0	2642.7
45°	2869.7	2866.6	2882.8	2896.0	2893.7	2890.6	2874.3	2843.5	2828.0	2827.2	2835.0
47.5°	3073.6	3079.8	3096.8	3119.2	3118.4	3110.7	3089.8	3061.2	3032.7	3035.0	3044.2
50°	3311.4	3319.9	3348.5	3370.9	3374.0	3371.7	3347.0	3313.8	3273.6	3275.9	3288.3
52.5°	3524.6	3536.9	3570.2	3616.5	3645.1	3658.2	3642.0	3611.1	3570.2	3572.5	3585.6
55°	3717.7	3737.0	3786.4	3849.7	3906.9	3960.1	3984.1	3983.3	3953.2	3960.1	3977.1
57.5°	3838.9	3865.9	3940.8	4042.8	4156.3	4263.6	4356.3	4443.6	4462.9	4499.2	4499.2
60°	3676.0	3739.3	3838.9	4013.4	4236.6	4477.6	4738.6	4992.7	5156.4	5285.3	5215.8
62.5°	3069.7	3163.2	3302.9	3533.1	3880.6	4310.7	4835.1	5425.9	6042.2	6419.0	6142.5
65°	1986.2	2103.6	2255.8	2514.5	2952.3	3506.1	4269.8	5331.7	6621.3	7290.1	6672.3
67.5°	786.9	866.5	959.1	1142.9	1522.9	2066.6	2923.8	4233.5	5846.8	6477.7	5785.0
70°	376.1	389.2	407.0	446.4	541.4	730.6	1174.6	2085.9	3585.6	4250.5	3499.9
72.5°	271.8	274.2	282.6	295.8	323.6	362.2	440.2	637.9	1236.4	1797.8	1237.9
75°	206.2	209.3	213.9	220.9	235.5	254.1	283.4	339.8	423.2	488.1	422.4
77.5°	156.8	159.9	163.7	170.7	178.4	191.5	202.3	224.7	260.3	274.2	272.6
80°	114.3	119.7	125.9	132.1	137.5	143.6	144.4	155.2	175.3	188.4	184.6
82.5°	72.6	77.2	93.4	100.4	101.2	102.7	101.9	102.7	113.5	122.8	119.7
85°	46.3	49.4	57.9	65.6	64.1	67.2	67.2	65.6	61.0	52.5	62.6
87.5°	23.2	23.9	27.8	34.8	33.2	29.3	28.6	28.6	20.9	17.8	19.3
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°	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1406.3	1407.8	1405.5	1405.5	1404.7	1406.3	1404.0	1404.0
5°	1417.1	1419.4	1418.6	1418.6	1420.2	1421.7	1421.0	1420.2
7.5°	1436.4	1437.9	1439.5	1440.3	1441.8	1441.0	1442.6	1441.8
10°	1465.7	1464.2	1466.5	1464.2	1465.0	1463.4	1464.2	1464.2
12.5°	1502.8	1500.5	1499.0	1497.4	1497.4	1494.3	1494.3	1495.1
15°	1545.3	1541.4	1538.3	1536.8	1535.2	1535.2	1532.9	1534.5
17.5°	1587.0	1583.1	1577.7	1577.7	1575.4	1573.9	1572.3	1576.2
20°	1631.0	1627.1	1624.1	1623.3	1618.7	1617.1	1617.9	1622.5
22.5°	1682.0	1679.7	1679.7	1678.1	1675.0	1672.7	1672.7	1678.1
25°	1750.7	1746.1	1746.8	1747.6	1746.1	1746.1	1744.5	1748.4
27.5°	1834.9	1831.0	1833.3	1834.9	1833.3	1835.7	1833.3	1836.4
30°	1933.7	1931.4	1933.7	1936.1	1932.2	1932.2	1930.6	1933.0
32.5°	2051.9	2048.8	2050.3	2050.3	2044.9	2040.3	2034.1	2038.8
35°	2181.6	2177.8	2180.9	2183.2	2177.0	2172.4	2163.1	2167.0
37.5°	2324.5	2326.0	2329.9	2339.9	2338.4	2330.7	2323.7	2326.8
40°	2484.4	2492.1	2509.1	2516.0	2514.5	2506.8	2497.5	2499.0
42.5°	2665.1	2675.1	2692.9	2704.4	2699.0	2688.2	2676.6	2681.3
45°	2862.0	2877.4	2900.6	2912.2	2905.2	2893.7	2877.4	2885.9
47.5°	3070.5	3101.4	3132.3	3147.7	3145.4	3129.2	3108.3	3110.7
50°	3319.9	3360.9	3400.3	3415.7	3404.1	3379.4	3350.1	3349.3
52.5°	3630.4	3674.4	3706.8	3703.0	3674.4	3635.8	3602.6	3601.0
55°	4018.1	4032.7	4028.1	3994.9	3944.7	3884.5	3842.0	3835.0
57.5°	4486.8	4437.4	4364.8	4264.4	4151.7	4037.4	3960.1	3931.6
60°	5059.8	4836.7	4577.2	4303.8	4054.4	3867.5	3749.3	3677.5
62.5°	5533.2	4886.9	4306.9	3831.9	3443.5	3212.6	3051.2	2951.6
65°	5371.1	4221.9	3381.7	2769.3	2345.3	2106.7	1936.1	1822.5
67.5°	4149.3	2821.1	1963.1	1360.7	1031.7	873.4	763.0	691.2
70°	2092.0	1081.9	655.6	462.6	395.4	367.6	349.1	338.2
72.5°	613.9	410.1	340.6	301.2	277.2	260.3	249.4	244.0
75°	339.8	277.2	244.8	222.4	207.0	195.4	188.4	183.8
77.5°	234.0	201.6	185.3	170.7	158.3	149.8	144.4	139.8
80°	163.7	147.5	140.6	132.8	123.6	116.6	108.9	105.8
82.5°	108.9	101.9	100.4	94.2	88.8	81.1	67.2	62.6
85°	64.1	63.3	63.3	61.0	57.1	50.2	40.2	40.2
87.5°	22.4	23.2	23.9	25.5	24.7	20.9	17.0	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)