

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: P271304

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271304
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-7027-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11743.4 lumens
Efficiency: N/A
Efficacy: 91.7 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

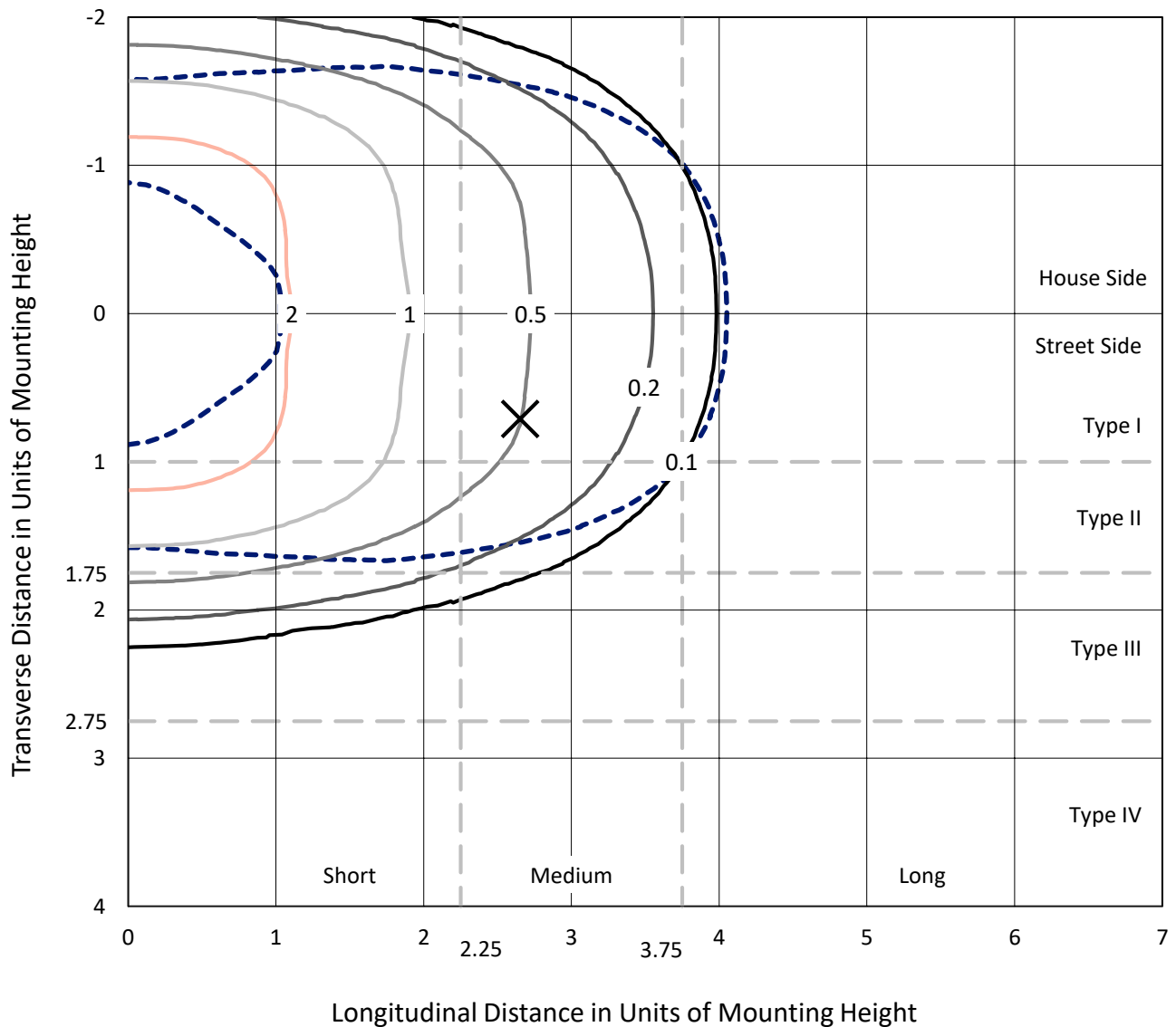


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Iso-Footcandle Lines of Horizontal Illumination

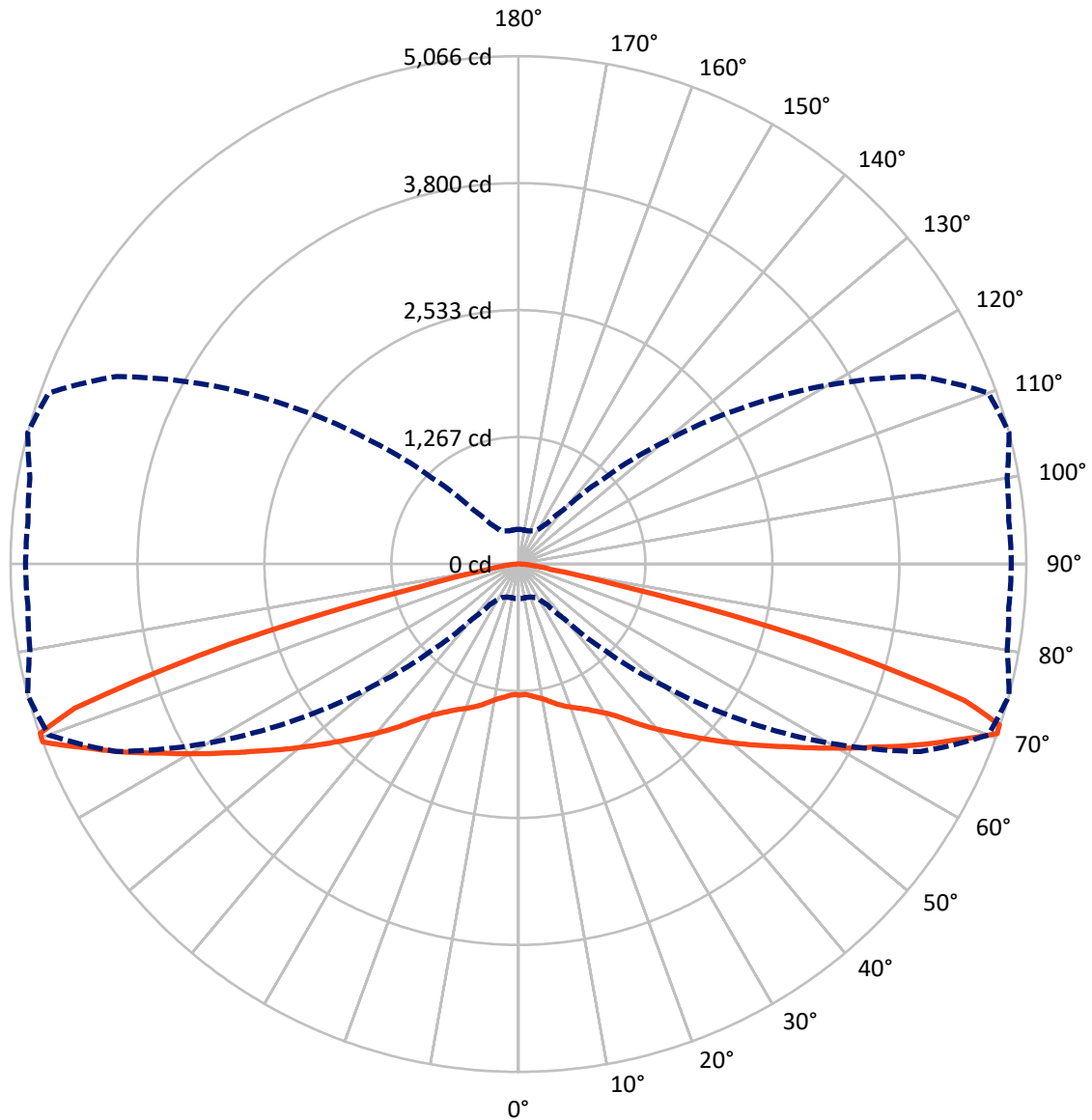
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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	5871.7	0.0	5871.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5871.7	0.0	5871.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11743.4	0.0	11743.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.1
10°-20°	389.0	3.3
20°-30°	730.6	6.2
30°-40°	1287.1	11.0
40°-50°	2133.1	18.2
50°-60°	2967.4	25.3
60°-70°	2801.3	23.9
70°-80°	1196.4	10.2
80°-90°	113.1	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°	11743.4	100.0
0°-180°	11743.4	100.0

Coefficient of Utilization



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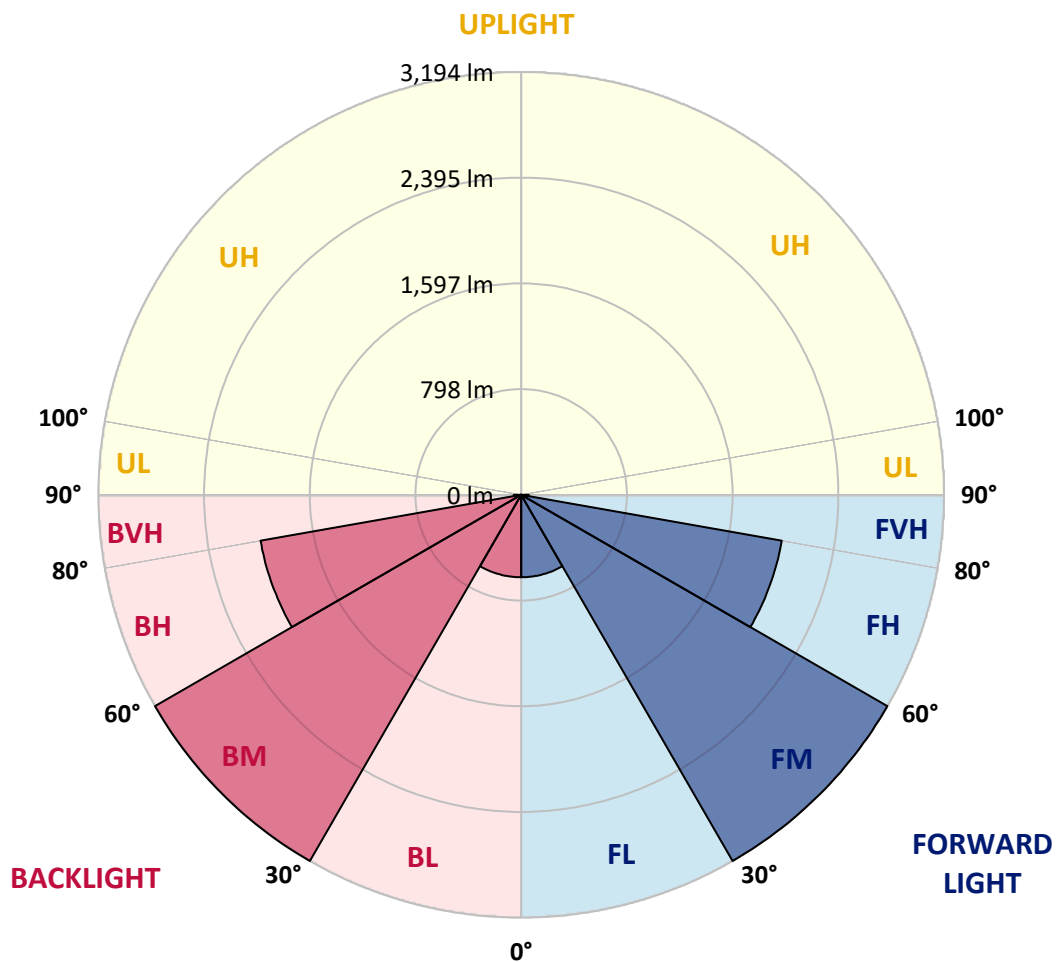
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.6	5.3			
FM (30°-60°)	3193.8	27.2			
FH (60°-80°)	1998.9	17.0			G2/5000
FVH (80°-90°)	56.5	0.5			G1/100
BL (0°-30°)	622.6	5.3	B2/1000		
BM (30°-60°)	3193.8	27.2	B3/5000		
BH (60°-80°)	1998.9	17.0	B3/2500		G2/5000
BVH (80°-90°)	56.5	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°	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8
2.5°	1315.8	1315.1	1315.8	1313.6	1314.4	1313.6	1313.6	1310.6	1310.6	1309.2	1307.0
5°	1301.1	1302.6	1302.6	1302.6	1304.8	1304.8	1307.8	1308.6	1310.6	1313.0	1314.4
7.5°	1276.9	1277.6	1279.7	1281.3	1285.7	1291.6	1297.4	1304.1	1310.0	1317.4	1325.4
10°	1256.2	1257.6	1261.4	1265.1	1273.2	1280.5	1290.9	1301.1	1311.4	1323.9	1336.5
12.5°	1245.2	1247.3	1253.2	1259.2	1271.7	1281.3	1295.3	1311.4	1325.4	1337.1	1351.2
15°	1246.7	1247.3	1255.6	1263.6	1281.3	1294.5	1314.4	1333.5	1350.4	1363.6	1379.8
17.5°	1268.0	1269.5	1277.6	1289.3	1306.2	1323.3	1344.6	1364.4	1387.3	1402.7	1421.7
20°	1310.0	1312.2	1321.0	1333.5	1351.9	1369.6	1391.7	1412.2	1435.9	1454.1	1473.3
22.5°	1364.4	1368.1	1377.7	1393.1	1411.4	1432.8	1455.7	1477.1	1499.1	1517.4	1533.6
25°	1437.3	1441.7	1452.0	1467.4	1485.8	1508.7	1532.1	1554.2	1577.2	1591.1	1604.4
27.5°	1535.2	1542.5	1553.6	1566.0	1582.3	1606.4	1628.5	1647.0	1669.1	1684.5	1693.3
30°	1666.8	1677.1	1685.9	1699.2	1711.0	1736.9	1754.5	1769.2	1786.1	1795.0	1797.1
32.5°	1828.1	1837.7	1846.5	1856.0	1872.2	1895.8	1912.8	1920.8	1929.6	1928.1	1920.0
35°	2009.8	2017.1	2022.4	2039.2	2065.7	2081.3	2093.7	2096.6	2098.1	2082.7	2067.2
37.5°	2201.1	2210.0	2214.4	2240.9	2266.0	2283.6	2289.5	2296.1	2291.7	2266.0	2237.9
40°	2407.9	2417.5	2430.8	2453.6	2483.1	2500.0	2507.3	2506.6	2502.9	2472.8	2427.1
42.5°	2611.1	2622.8	2633.9	2673.6	2697.9	2726.6	2730.3	2729.6	2721.4	2686.9	2633.9
45°	2783.3	2797.2	2820.0	2864.2	2903.2	2937.8	2951.8	2957.0	2948.9	2912.0	2851.7
47.5°	2925.3	2934.9	2963.6	3017.2	3067.4	3118.1	3146.1	3165.9	3165.2	3138.8	3074.7
50°	3022.4	3033.4	3068.8	3129.2	3191.7	3251.3	3306.5	3351.4	3372.7	3353.6	3294.1
52.5°	3050.5	3064.4	3110.8	3182.9	3255.7	3335.9	3418.4	3497.9	3545.7	3557.5	3511.1
55°	2932.6	2948.1	3015.8	3116.0	3235.9	3354.5	3479.4	3592.9	3691.4	3737.0	3718.7
57.5°	2589.8	2600.8	2686.9	2816.4	2987.9	3196.1	3406.6	3614.2	3783.4	3901.9	3922.4
60°	2048.0	2062.1	2156.3	2293.2	2488.1	2751.7	3046.1	3386.0	3717.9	3989.5	4124.2
62.5°	1382.1	1391.7	1482.2	1607.2	1820.7	2074.5	2402.7	2833.3	3306.5	3791.4	4171.2
65°	725.7	725.7	786.7	874.3	1044.3	1271.7	1608.0	2049.6	2612.5	3218.2	3853.3
67.5°	420.9	420.1	434.2	454.1	507.8	599.8	785.3	1109.8	1642.6	2347.6	3070.2
70°	347.4	345.2	343.0	343.0	351.1	365.0	400.4	489.3	716.0	1210.6	1889.1
71°	332.0	330.4	324.6	322.3	326.1	333.5	348.8	390.0	508.5	825.7	1410.8
72.5°	313.5	309.8	301.0	297.2	298.1	301.0	305.5	321.7	357.6	469.5	804.3
75°	285.5	276.7	265.7	260.5	258.4	257.5	257.5	261.9	270.1	283.3	329.7
77.5°	253.1	240.7	228.9	223.7	220.1	217.7	216.3	213.3	211.9	217.7	234.7
80°	214.2	201.0	191.3	188.5	186.2	181.7	175.9	170.0	166.4	169.3	179.7
82.5°	165.6	152.4	153.8	154.6	150.8	143.5	137.6	131.1	124.3	122.9	128.1
85°	131.7	125.1	120.7	130.3	122.2	113.4	105.2	94.2	78.7	64.8	70.6
87.5°	56.7	57.4	82.5	124.3	109.0	87.6	72.9	58.8	37.5	27.9	28.7
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°	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8
2.5°	1306.2	1306.2	1304.1	1302.6	1302.6	1302.6	1301.1	1301.9
5°	1315.1	1316.6	1318.1	1317.4	1319.5	1321.8	1321.0	1320.2
7.5°	1329.9	1334.3	1338.7	1340.9	1343.9	1346.7	1347.5	1345.3
10°	1344.6	1353.3	1360.0	1366.0	1369.6	1372.5	1374.8	1374.0
12.5°	1363.0	1375.5	1387.3	1399.0	1407.0	1411.4	1415.9	1414.4
15°	1393.1	1407.0	1421.7	1437.3	1449.8	1456.4	1463.0	1461.5
17.5°	1434.4	1446.8	1458.6	1474.1	1489.5	1496.8	1504.2	1503.6
20°	1485.8	1495.4	1502.1	1510.9	1525.6	1533.6	1540.4	1538.1
22.5°	1544.7	1547.7	1548.4	1551.4	1563.1	1572.8	1581.6	1583.7
25°	1608.8	1606.4	1602.0	1599.9	1608.0	1618.2	1629.3	1632.3
27.5°	1688.3	1680.9	1669.8	1661.0	1663.2	1676.4	1689.0	1691.9
30°	1788.3	1771.4	1747.8	1730.9	1728.0	1742.0	1755.2	1759.6
32.5°	1902.4	1879.6	1847.2	1821.5	1810.4	1822.9	1834.7	1841.3
35°	2037.7	2012.7	1973.8	1940.7	1923.0	1931.0	1951.7	1959.1
37.5°	2198.2	2163.7	2120.2	2078.3	2048.9	2050.3	2072.4	2081.3
40°	2375.6	2325.5	2270.3	2218.1	2175.4	2172.6	2192.4	2199.0
42.5°	2560.3	2496.3	2431.5	2363.1	2310.1	2300.5	2326.3	2327.0
45°	2759.1	2676.6	2596.3	2517.0	2461.6	2444.7	2469.8	2472.8
47.5°	2971.0	2867.8	2773.0	2686.9	2627.3	2600.8	2625.0	2629.5
50°	3191.7	3085.0	2974.6	2879.0	2809.0	2776.7	2805.3	2808.3
52.5°	3410.2	3309.4	3199.9	3090.2	3005.5	2968.7	3002.6	3012.8
55°	3630.3	3533.3	3430.2	3320.6	3213.7	3181.3	3218.2	3229.2
57.5°	3859.2	3765.8	3672.4	3561.9	3458.1	3408.8	3448.6	3464.0
60°	4111.6	4029.2	3941.0	3829.7	3727.4	3670.0	3703.9	3721.6
62.5°	4359.7	4342.8	4262.5	4146.9	4017.4	3960.0	3988.7	4001.2
65°	4380.2	4654.7	4651.1	4536.4	4355.3	4258.9	4266.9	4272.8
67.5°	3823.1	4453.1	4855.7	4891.7	4690.1	4539.2	4521.6	4525.2
70°	2706.8	3571.4	4425.9	4986.6	5066.1	4949.1	4910.9	4916.8
71°	2168.8	3064.4	4005.0	4759.2	5060.2	5026.3	5005.0	5020.4
72.5°	1384.3	2257.8	3173.4	4075.6	4653.3	4818.9	4843.1	4852.7
75°	502.6	971.4	1644.1	2355.7	2985.6	3419.0	3657.5	3676.8
77.5°	270.1	348.2	537.9	803.7	1009.7	1120.0	1133.3	1138.5
80°	198.6	230.3	263.5	301.0	324.6	329.0	320.9	303.9
82.5°	140.6	159.0	172.2	185.5	195.0	186.9	155.2	118.4
85°	81.7	89.8	97.1	103.8	105.2	99.4	65.4	53.7
87.5°	32.3	35.4	34.6	38.9	37.5	34.6	25.7	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)