

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: P198701

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9771.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

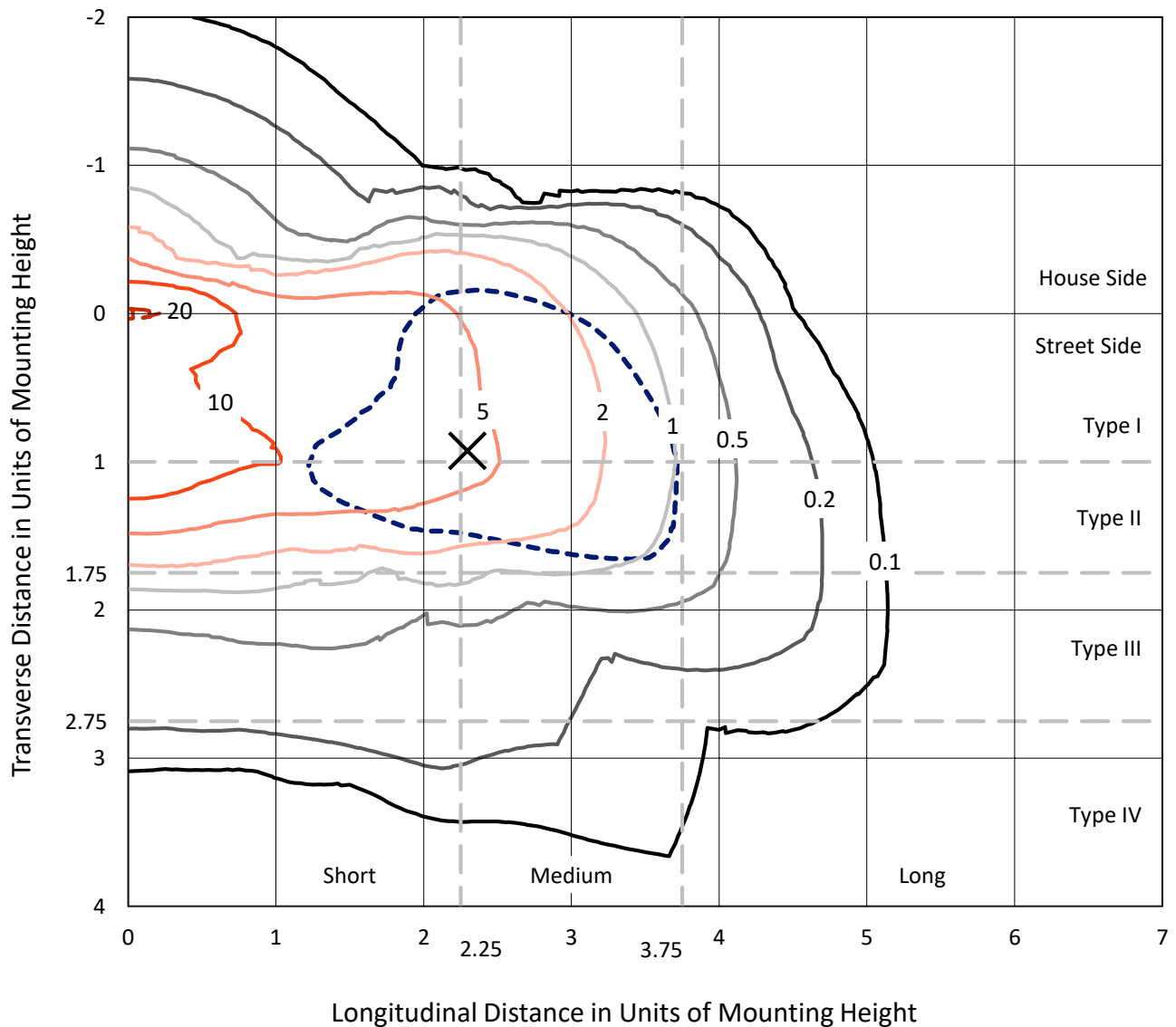
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

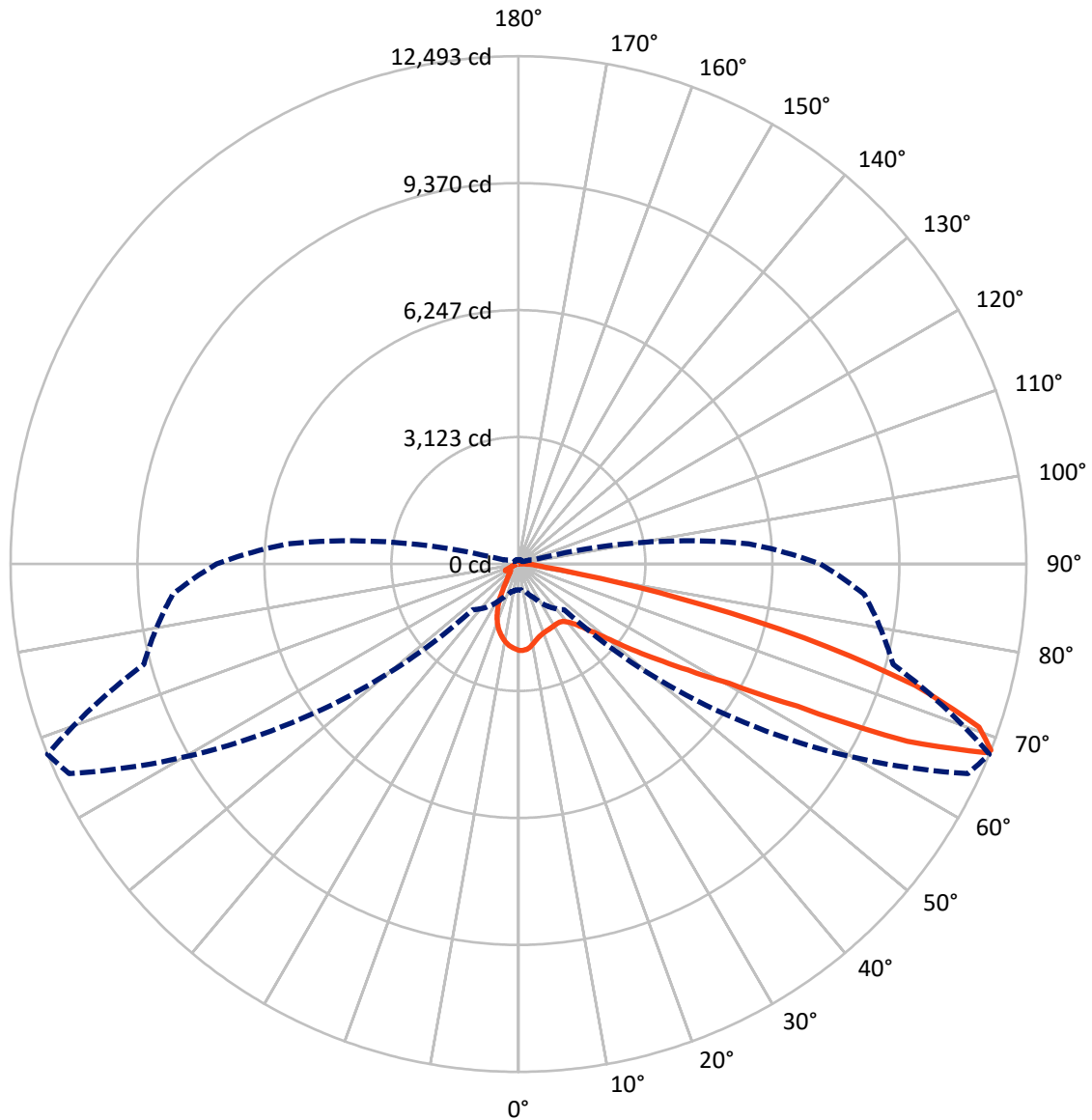


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.6	0.0	1598.6
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	8172.6	0.0	8172.6
	% Fixture	83.6	0.0	83.6
Total	Lumens	9771.2	0.0	9771.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.9
10°-20°	422.5	4.3
20°-30°	571.4	5.8
30°-40°	805.7	8.2
40°-50°	1324.9	13.6
50°-60°	2053.7	21.0
60°-70°	2662.8	27.3
70°-80°	1528.1	15.6
80°-90°	219.9	2.2
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°	9771.2	100.0
0°-180°	9771.2	100.0

Coefficient of Utilization



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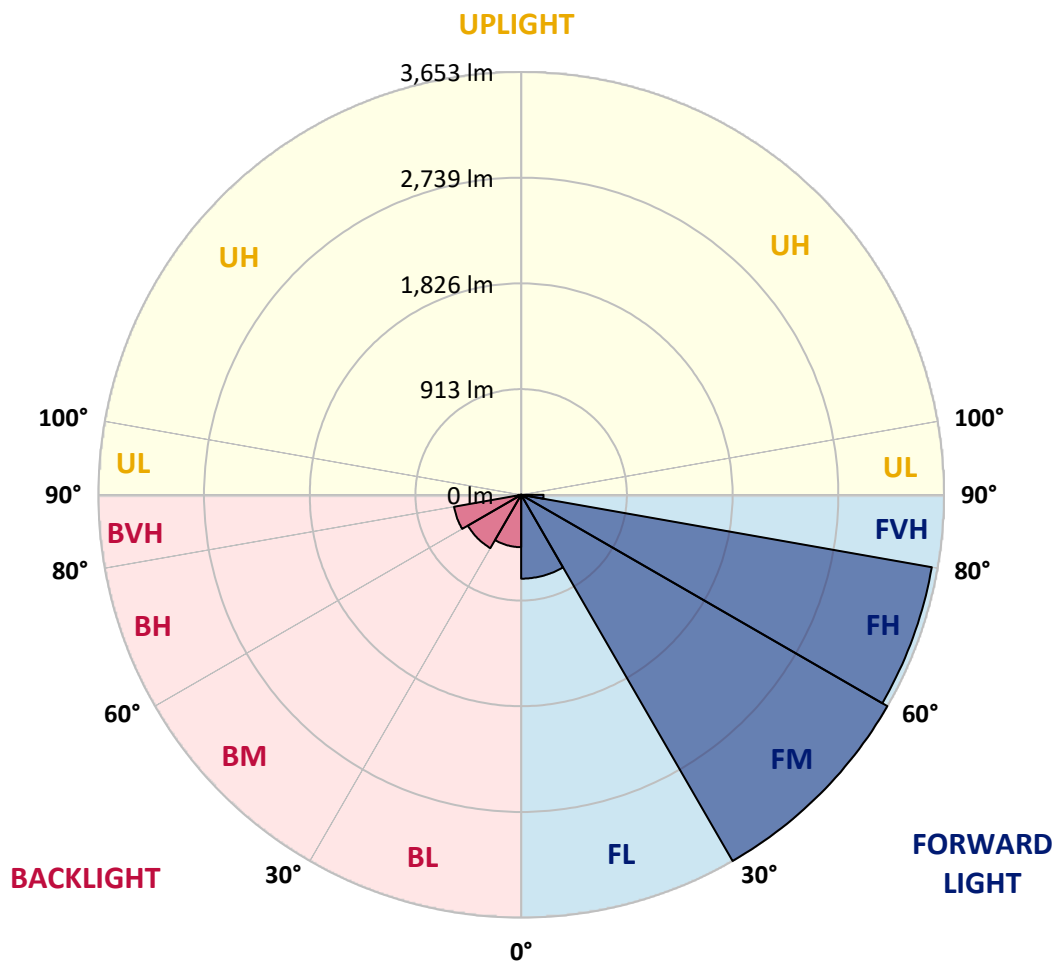
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.2	7.4			
FM (30°-60°)	3652.6	37.4			
FH (60°-80°)	3602.1	36.9			G2/5000
FVH (80°-90°)	193.7	2.0			G2/225
BL (0°-30°)	451.9	4.6	B1/500		
BM (30°-60°)	531.7	5.4	B1/1000		
BH (60°-80°)	588.7	6.0	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2069.3	2085.9	2085.9	2098.1	2108.9	2117.8	2125.5	2125.5	2125.5	2120.4	2115.9
5°	1851.6	1874.0	1877.2	1907.8	1948.0	1997.2	2052.0	2100.6	2110.1	2128.0	2135.1
7.5°	1700.3	1707.4	1719.6	1740.7	1781.5	1842.1	1928.3	2036.8	2063.0	2119.1	2148.5
10°	1593.1	1598.9	1609.1	1630.2	1667.2	1722.1	1806.9	1948.0	1991.5	2091.0	2149.1
12.5°	1514.7	1519.1	1528.7	1547.8	1585.5	1634.7	1721.4	1868.2	1921.9	2063.0	2158.0
15°	1453.4	1461.1	1468.7	1487.2	1525.5	1572.8	1660.9	1810.2	1868.2	2040.6	2174.7
17.5°	1429.2	1432.9	1434.3	1443.8	1478.3	1526.1	1614.2	1769.3	1829.3	2022.7	2187.4
20°	1444.4	1445.1	1432.3	1425.9	1445.7	1489.7	1575.2	1738.7	1800.0	2006.7	2192.5
22.5°	1511.5	1511.5	1478.3	1450.2	1436.7	1464.3	1549.2	1717.6	1784.0	1994.7	2192.5
25°	1639.1	1633.3	1581.7	1526.1	1466.8	1455.2	1532.5	1704.2	1771.9	1988.3	2184.2
27.5°	1806.9	1801.9	1736.2	1653.8	1546.6	1474.5	1526.8	1693.4	1759.8	1978.7	2166.3
30°	2011.2	2006.7	1932.0	1824.2	1666.0	1535.0	1540.2	1685.7	1750.2	1962.7	2136.3
32.5°	2214.9	2212.3	2152.9	2042.5	1830.6	1637.8	1575.2	1684.4	1745.1	1943.6	2099.9
35°	2419.8	2419.8	2383.4	2290.2	2052.0	1792.3	1648.7	1708.0	1754.7	1933.4	2068.7
37.5°	2722.3	2710.2	2642.5	2546.1	2331.0	1992.7	1767.5	1757.8	1791.7	1950.6	2058.5
40°	3190.8	3155.7	2986.5	2824.4	2635.5	2249.4	1941.0	1854.2	1874.7	2009.3	2082.7
42.5°	3681.0	3625.4	3401.4	3142.3	2950.2	2565.9	2168.9	2010.6	2010.0	2122.9	2160.0
45°	4101.6	4072.9	3830.3	3501.7	3309.6	2922.1	2456.7	2242.9	2220.0	2299.1	2308.7
47.5°	4346.1	4327.0	4180.8	3882.1	3735.9	3342.7	2821.9	2565.3	2521.9	2569.1	2554.4
50°	4278.4	4296.9	4254.9	4102.2	4194.2	3933.8	3287.2	3007.0	2924.6	2971.9	2936.1
52.5°	3922.3	3972.0	4009.8	4039.1	4457.8	4724.6	3871.9	3558.4	3490.1	3481.8	3447.3
55°	3280.8	3360.0	3478.6	3694.4	4386.9	5359.6	4893.1	4225.5	4125.9	4073.5	4087.0
57.5°	2232.7	2352.7	2608.6	3019.1	4018.7	5630.3	6403.3	5087.1	4918.7	4732.3	4775.6
60°	1230.0	1330.1	1634.7	2048.3	3178.0	5590.1	7741.8	6487.6	5957.2	5463.1	5552.5
62.5°	796.0	817.6	1044.2	1399.1	1950.6	4935.2	8485.4	8828.2	7704.1	6426.9	6552.6
65°	639.5	654.9	766.0	1128.5	1358.9	3174.8	8518.5	11256.1	10515.1	7736.7	7740.5
67.5°	624.9	631.9	696.3	949.1	1274.7	1728.5	7363.3	12213.6	12385.3	9282.6	8535.2
68°	633.8	642.1	707.3	919.7	1274.0	1593.1	6805.4	12198.9	12493.2	9541.1	8535.2
70°	559.1	569.4	721.3	951.7	1219.8	1369.7	4660.2	11551.1	12024.7	10135.4	8098.6
72.5°	292.4	284.1	356.8	751.3	1373.0	1427.2	2461.8	9650.2	10203.0	9386.6	6996.9
75°	227.9	207.5	199.8	296.8	1207.6	1480.2	1429.8	6859.0	7276.5	6766.5	4676.7
77.5°	214.5	189.6	174.9	175.5	531.7	1540.2	1156.5	4036.6	4036.6	3227.8	1492.3
80°	172.4	149.4	139.7	159.6	256.6	1419.5	1207.0	1839.6	1568.9	834.2	411.0
82.5°	113.6	101.5	102.1	129.6	194.7	947.9	1397.9	908.3	682.3	369.6	241.9
85°	72.1	61.9	68.9	90.6	145.6	422.6	1383.8	631.3	451.9	207.5	120.6
87.5°	36.4	28.1	34.5	47.3	88.7	121.3	1139.4	563.6	335.1	86.1	65.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2115.9	2101.9	2094.9	2083.3	2069.3	2055.3	2045.7	2041.2	2038.6	2040.0	2039.4
5°	2131.2	2112.7	2082.7	2040.0	1995.9	1949.3	1913.5	1886.1	1868.9	1863.8	1862.5
7.5°	2142.8	2115.9	2059.7	1981.9	1906.6	1824.8	1755.3	1699.7	1662.1	1644.9	1644.2
10°	2140.8	2106.4	2017.7	1902.7	1792.3	1672.3	1563.2	1470.0	1402.4	1369.7	1368.5
12.5°	2142.8	2095.5	1965.9	1810.2	1651.9	1480.2	1318.1	1173.1	1072.4	1024.5	1022.5
15°	2150.3	2084.0	1912.9	1706.8	1487.9	1245.3	1013.6	831.7	739.8	708.5	708.5
17.5°	2149.7	2064.8	1851.6	1586.8	1293.2	968.3	691.9	579.6	570.6	599.3	603.8
20°	2136.9	2034.2	1772.6	1444.4	1064.7	670.2	469.1	453.2	524.7	603.8	612.7
22.5°	2117.2	1994.7	1681.2	1279.1	798.5	436.6	361.9	386.2	483.1	581.4	595.6
25°	2089.8	1946.8	1576.6	1087.0	531.0	314.0	301.9	331.9	400.2	466.0	476.2
27.5°	2049.6	1886.1	1462.3	878.9	338.9	258.5	263.0	284.1	313.4	341.5	347.2
30°	1999.2	1815.3	1337.8	648.4	257.3	231.1	238.8	251.4	264.2	282.1	285.9
32.5°	1948.0	1743.2	1208.3	445.5	224.6	216.4	224.0	231.1	241.9	254.0	256.6
35°	1902.1	1676.1	1074.9	310.9	210.6	206.8	210.6	215.1	226.0	238.0	239.4
37.5°	1868.9	1621.3	935.7	245.7	202.3	198.6	200.4	202.3	215.1	232.9	234.9
40°	1864.4	1584.9	794.6	220.9	196.0	190.9	189.6	190.9	207.5	227.9	229.8
42.5°	1907.8	1586.8	656.8	210.6	190.9	185.2	180.0	182.6	197.2	213.2	214.5
45°	2010.6	1631.5	537.5	206.1	186.4	181.9	174.2	175.5	182.6	190.9	192.1
47.5°	2191.9	1729.1	446.2	203.6	182.6	178.7	169.2	165.3	165.9	170.4	170.4
50°	2481.7	1892.6	390.7	201.0	179.3	172.4	161.5	153.9	151.9	154.5	155.1
52.5°	2913.8	2172.7	363.9	196.0	173.6	164.1	151.9	144.2	141.1	143.6	143.6
55°	3497.8	2620.2	351.1	188.9	166.6	153.9	143.0	136.6	134.0	136.0	136.0
57.5°	4163.5	3201.6	372.8	179.3	157.6	143.0	135.3	130.8	128.9	130.8	131.4
60°	4954.4	3962.5	522.1	167.3	148.1	133.4	128.9	126.3	125.1	127.1	127.1
62.5°	6005.6	4974.8	808.0	157.6	137.9	124.5	123.2	121.9	120.6	122.5	122.5
65°	7140.5	5895.9	831.7	151.9	128.9	116.8	117.4	117.4	116.2	118.0	118.0
67.5°	7501.8	5816.1	464.6	144.8	118.0	109.1	111.7	111.7	111.1	112.9	112.3
68°	7425.2	5689.7	404.7	143.0	116.2	107.2	109.8	110.4	109.8	111.7	111.1
70°	6854.6	4995.3	266.2	132.2	107.9	100.9	104.6	105.4	104.6	107.2	106.6
72.5°	5658.5	3746.8	196.6	115.5	97.7	92.6	96.4	97.0	97.7	100.2	99.5
75°	3593.5	2069.3	155.1	98.3	87.5	83.0	86.8	88.7	90.0	93.8	92.0
77.5°	984.3	628.1	125.7	83.6	75.3	73.4	76.0	78.5	79.8	84.3	81.0
80°	344.6	277.6	104.6	70.9	62.5	61.9	64.4	67.0	68.3	72.1	68.3
82.5°	209.4	181.3	83.6	55.5	49.1	48.5	51.7	54.2	55.5	55.5	53.0
85°	109.1	95.7	61.3	39.0	33.9	31.9	37.6	40.8	41.5	40.8	39.0
87.5°	61.3	54.2	32.5	18.5	15.3	16.0	19.7	24.2	26.2	25.6	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)