

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: P271317

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7027-800-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7185.4 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - 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

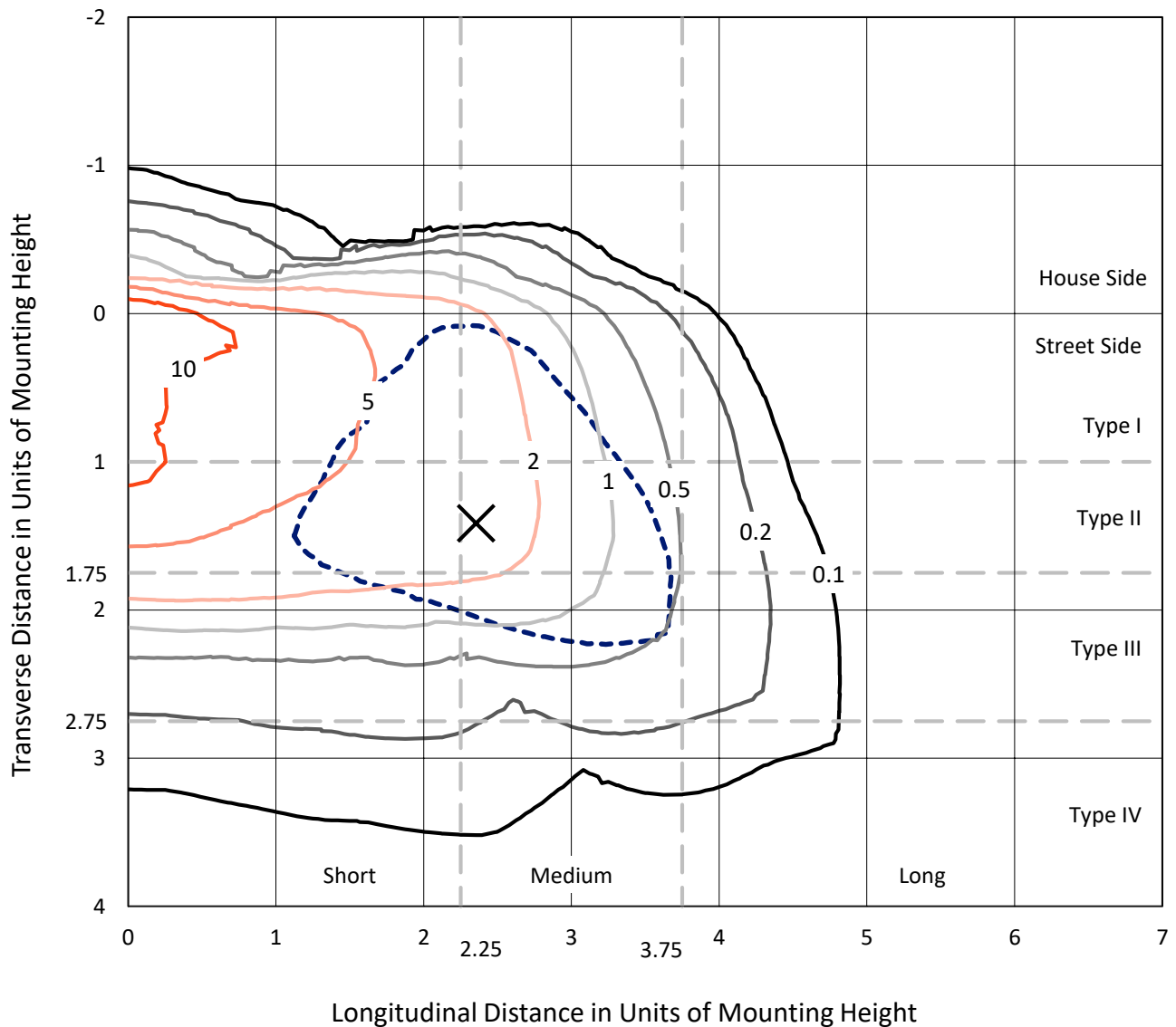


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

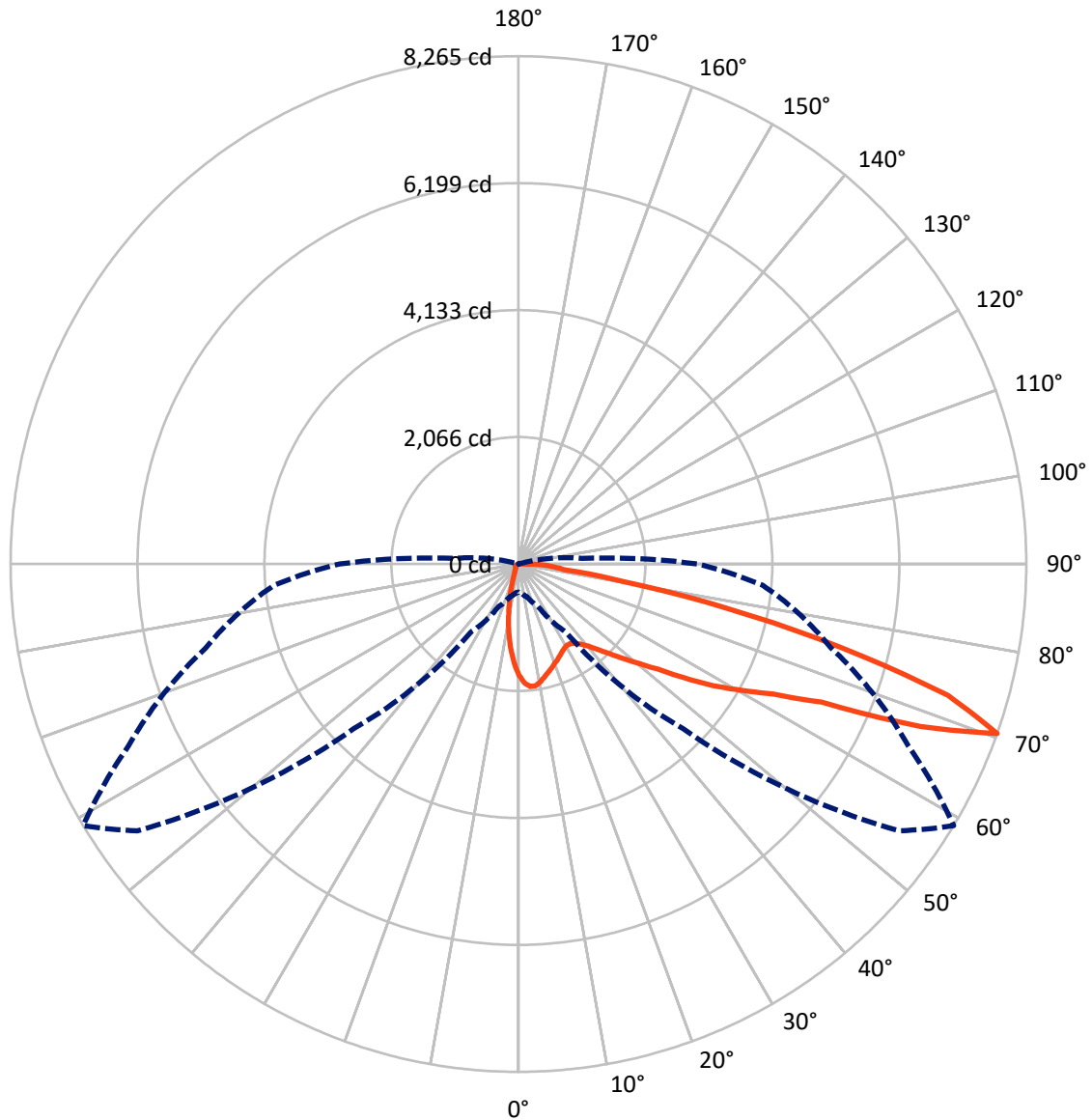


Based on 10 foot mounting height. Maximum calculated value = 19.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.4	0.0	552.4
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	6633.1	0.0	6633.1
	% Fixture	92.3	0.0	92.3
Total	Lumens	7185.4	0.0	7185.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	2.1
10°-20°	313.4	4.4
20°-30°	424.2	5.9
30°-40°	612.2	8.5
40°-50°	1016.7	14.1
50°-60°	1555.2	21.6
60°-70°	1934.3	26.9
70°-80°	1069.3	14.9
80°-90°	110.9	1.5
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°	7185.4	100.0
0°-180°	7185.4	100.0

Coefficient of Utilization



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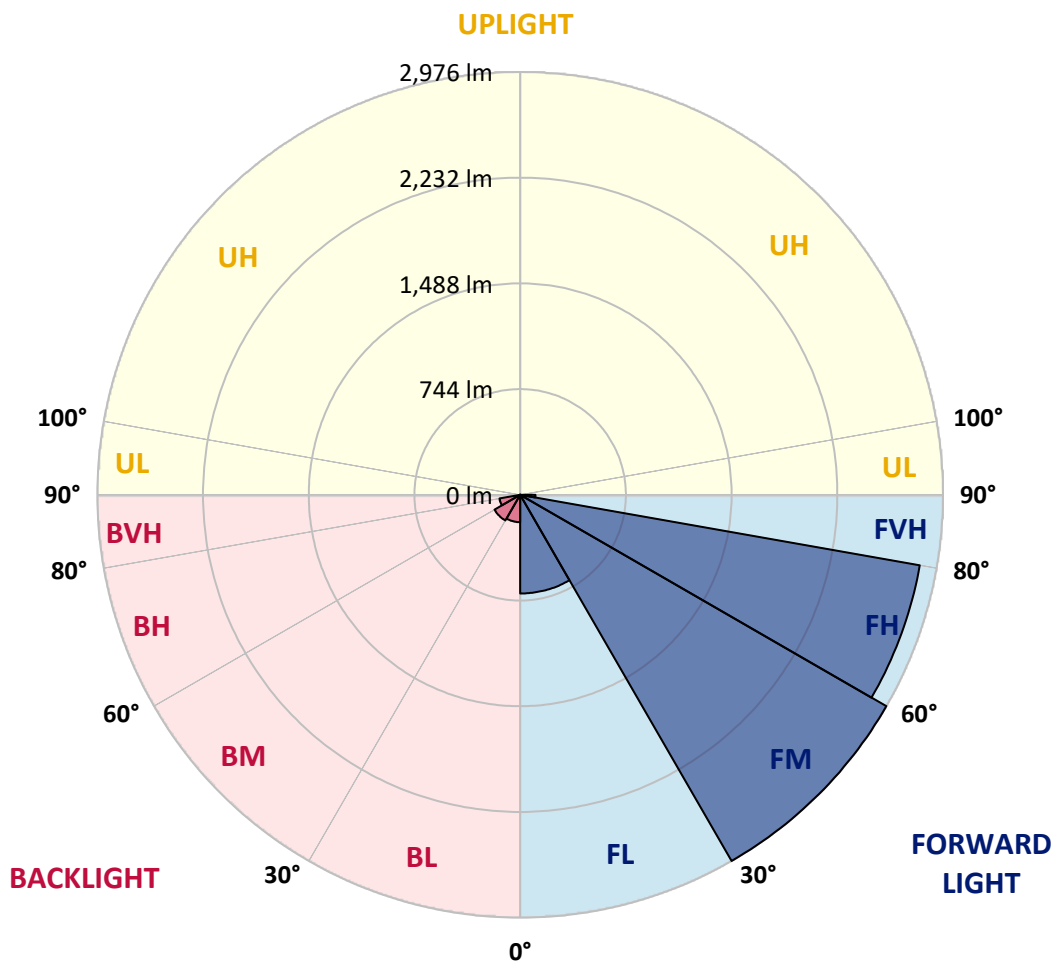
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.5	9.7			
FM (30°-60°)	2975.6	41.4			
FH (60°-80°)	2855.3	39.7			G2/5000
FVH (80°-90°)	107.7	1.5			G2/225
BL (0°-30°)	192.5	2.7	B1/500		
BM (30°-60°)	208.5	2.9	B0/220		
BH (60°-80°)	148.2	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9
2.5°	2053.9	2050.6	2036.9	2034.3	2019.1	1988.8	1953.5	1939.4	1910.8	1865.2	1814.8
5°	2088.0	2089.5	2090.6	2084.6	2082.5	2057.6	2018.6	2001.8	1963.2	1888.4	1796.3
7.5°	1960.0	1964.4	1977.9	1983.8	2009.9	2019.7	2011.6	2000.6	1970.3	1881.9	1752.5
10°	1825.0	1833.3	1847.9	1857.5	1889.6	1915.5	1948.7	1951.4	1944.9	1860.3	1703.0
12.5°	1709.0	1716.7	1732.9	1752.5	1784.9	1818.6	1867.8	1885.3	1906.9	1846.1	1667.9
15°	1609.4	1611.5	1627.2	1651.7	1694.5	1740.5	1799.0	1824.5	1866.8	1840.7	1640.8
17.5°	1522.1	1522.5	1532.9	1555.1	1607.2	1667.9	1736.2	1769.8	1823.4	1833.3	1616.9
20°	1464.5	1464.1	1464.5	1476.5	1522.5	1594.8	1677.7	1712.9	1781.7	1824.0	1592.5
22.5°	1445.2	1442.4	1429.9	1425.6	1454.8	1518.2	1617.5	1663.5	1744.2	1821.3	1574.6
25°	1469.0	1467.3	1440.7	1415.8	1418.6	1458.0	1556.3	1612.5	1715.0	1831.0	1570.2
27.5°	1546.0	1542.7	1502.0	1453.2	1422.3	1429.4	1510.7	1569.8	1691.7	1854.9	1576.3
30°	1646.8	1647.3	1604.0	1544.8	1472.2	1432.1	1486.2	1542.1	1676.0	1890.7	1589.3
32.5°	1758.9	1758.4	1727.5	1659.2	1566.6	1481.9	1497.1	1544.2	1678.2	1943.3	1614.3
35°	1874.9	1869.0	1858.7	1798.4	1690.2	1569.2	1546.4	1581.1	1700.9	2012.7	1656.5
37.5°	2008.8	2006.6	2017.0	1953.5	1843.0	1697.6	1633.2	1656.5	1758.4	2115.1	1724.7
40°	2221.9	2209.9	2214.9	2128.7	2015.3	1870.6	1754.6	1760.6	1850.0	2250.6	1832.6
42.5°	2627.8	2579.7	2489.1	2327.6	2205.0	2062.5	1913.4	1903.1	1979.5	2414.9	1974.7
45°	3112.9	3057.7	2829.5	2547.1	2394.7	2268.5	2109.6	2082.0	2139.0	2610.5	2157.9
47.5°	3517.9	3458.2	3155.7	2776.3	2587.7	2480.9	2327.0	2294.5	2329.8	2837.6	2378.0
50°	3656.1	3623.0	3357.4	2967.1	2782.3	2719.4	2599.7	2545.4	2554.2	3082.7	2634.9
52.5°	3592.7	3581.4	3403.5	3097.7	2962.3	2982.9	2898.3	2841.3	2831.6	3350.4	2919.0
55°	3458.8	3453.4	3366.7	3170.4	3121.2	3224.0	3317.4	3268.0	3175.9	3634.9	3153.6
57.5°	3267.4	3288.1	3350.4	3310.3	3316.3	3478.9	3706.4	3732.0	3594.3	3861.5	3327.6
60°	2756.3	2811.5	3097.3	3460.5	3738.4	3902.7	4123.3	4171.0	3948.8	4016.5	3528.7
62.5°	2037.5	2116.6	2523.8	3191.0	3971.0	4708.7	4677.8	4656.8	4287.0	4224.2	3894.6
65°	1196.8	1289.5	1633.7	2493.4	3620.3	5227.0	5713.2	5420.5	4802.5	4655.6	4477.3
67.5°	596.3	596.8	752.4	1316.0	2675.5	4865.4	7224.3	7055.3	5898.5	5291.5	4707.1
70°	458.6	471.0	556.7	764.8	1352.9	3789.4	7570.7	8265.1	7000.0	5263.3	3993.8
72.5°	388.6	396.8	495.4	665.6	1011.4	2080.4	6553.9	7305.6	6679.6	4446.9	2943.8
75°	279.7	286.2	438.6	603.8	931.3	1032.1	4495.7	5418.2	5011.7	3128.2	1620.2
77.5°	69.3	68.8	152.8	490.0	833.1	859.7	2579.7	3474.6	2875.6	1280.9	416.3
80°	30.9	29.9	34.7	102.9	775.1	811.4	1134.5	1754.6	1103.1	207.6	127.4
82.5°	21.6	20.7	21.6	38.0	259.2	752.9	685.6	760.4	403.8	71.0	54.2
85°	7.0	6.5	11.9	32.0	72.7	434.2	668.9	568.1	300.4	30.4	36.3
87.5°	1.1	1.1	4.3	17.3	21.1	144.7	392.4	393.5	134.9	17.8	16.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9	1816.9
2.5°	1789.3	1757.4	1712.3	1667.3	1626.7	1584.9	1551.4	1535.7	1528.6	1518.9	1497.7
5°	1748.1	1690.2	1591.4	1494.4	1404.0	1317.2	1243.0	1200.7	1155.1	1153.0	1130.6
7.5°	1681.9	1599.6	1444.0	1293.3	1155.1	1022.8	909.1	835.3	784.8	753.5	731.8
10°	1608.2	1502.5	1296.6	1084.7	896.6	719.8	573.5	478.1	420.0	390.9	374.1
12.5°	1549.7	1416.8	1151.3	884.7	648.8	446.1	310.1	240.7	209.8	197.8	192.4
15°	1499.4	1338.4	1015.3	705.8	433.2	256.3	179.4	156.7	151.8	151.8	151.3
17.5°	1448.3	1262.4	883.0	530.1	272.6	168.1	141.5	138.2	138.8	140.3	140.3
20°	1400.1	1190.3	755.7	377.7	178.9	134.4	128.5	127.4	128.9	131.2	130.7
22.5°	1361.1	1127.0	636.4	259.6	137.7	122.0	118.1	116.5	117.6	119.3	118.7
25°	1333.4	1072.7	526.9	181.1	119.8	111.1	106.8	104.7	103.6	104.7	104.1
27.5°	1316.6	1027.2	423.9	136.1	107.3	100.3	94.9	90.5	87.9	87.9	86.7
30°	1305.7	984.4	332.3	112.7	97.0	89.4	81.8	75.8	71.5	70.4	69.9
32.5°	1305.2	947.5	248.2	99.7	87.2	78.6	69.3	61.9	57.0	55.9	55.2
35°	1318.8	917.7	182.6	90.0	78.6	68.4	58.0	49.9	45.5	45.5	44.9
37.5°	1354.0	900.3	138.2	82.4	71.5	59.6	48.8	41.2	37.4	38.4	38.4
40°	1419.6	897.0	112.7	76.4	65.5	52.0	39.5	33.5	32.0	33.5	33.5
42.5°	1519.9	914.5	100.3	72.1	60.1	44.5	33.1	28.7	28.1	29.9	29.9
45°	1650.5	948.6	93.2	68.4	54.2	36.9	27.7	25.0	24.4	26.6	26.6
47.5°	1808.7	994.7	86.7	64.0	48.2	30.4	23.3	21.1	21.1	23.3	23.9
50°	1996.4	1056.9	80.2	59.6	43.4	25.5	19.6	17.8	18.4	20.7	21.1
52.5°	2212.0	1133.4	74.3	55.9	38.0	20.7	16.3	15.2	15.7	17.8	18.4
55°	2398.0	1200.0	67.3	52.0	30.9	16.8	13.6	13.0	13.6	16.3	16.3
57.5°	2560.1	1264.0	60.7	46.1	24.4	13.6	10.8	10.8	11.9	14.6	15.2
60°	2775.3	1364.9	55.2	39.0	18.4	10.3	8.7	9.3	10.8	13.0	13.6
62.5°	3156.4	1536.1	48.2	32.5	13.6	8.2	7.0	7.5	9.7	12.4	13.0
65°	3633.4	1698.2	40.2	27.0	10.3	6.0	5.4	7.0	9.7	12.4	13.0
67.5°	3584.5	1477.1	31.4	21.6	7.5	4.9	4.3	6.5	9.3	12.4	13.0
70°	2906.9	1035.2	23.3	14.6	6.0	4.3	4.3	6.5	9.3	11.9	12.4
72.5°	2016.4	576.3	17.8	9.7	5.4	4.3	3.9	6.0	8.7	11.9	12.4
75°	959.4	176.6	14.2	7.0	4.9	3.9	3.2	6.0	8.7	11.9	12.4
77.5°	184.3	44.9	11.4	6.0	4.3	3.9	3.2	5.4	8.7	11.4	11.9
80°	62.3	20.0	9.3	5.4	4.3	3.9	3.2	5.4	8.2	10.8	11.4
82.5°	34.1	11.4	8.2	4.9	4.3	3.2	2.8	4.9	7.5	10.8	11.4
85°	26.6	8.2	6.5	4.9	4.3	3.2	2.8	4.9	7.5	10.3	10.8
87.5°	13.6	6.0	5.4	4.9	4.3	3.2	2.8	4.3	7.0	9.7	10.8
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)