

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: P198707

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198707
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-SL3-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 6899.8 lumens
Efficiency: N/A
Efficacy: 104.5 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

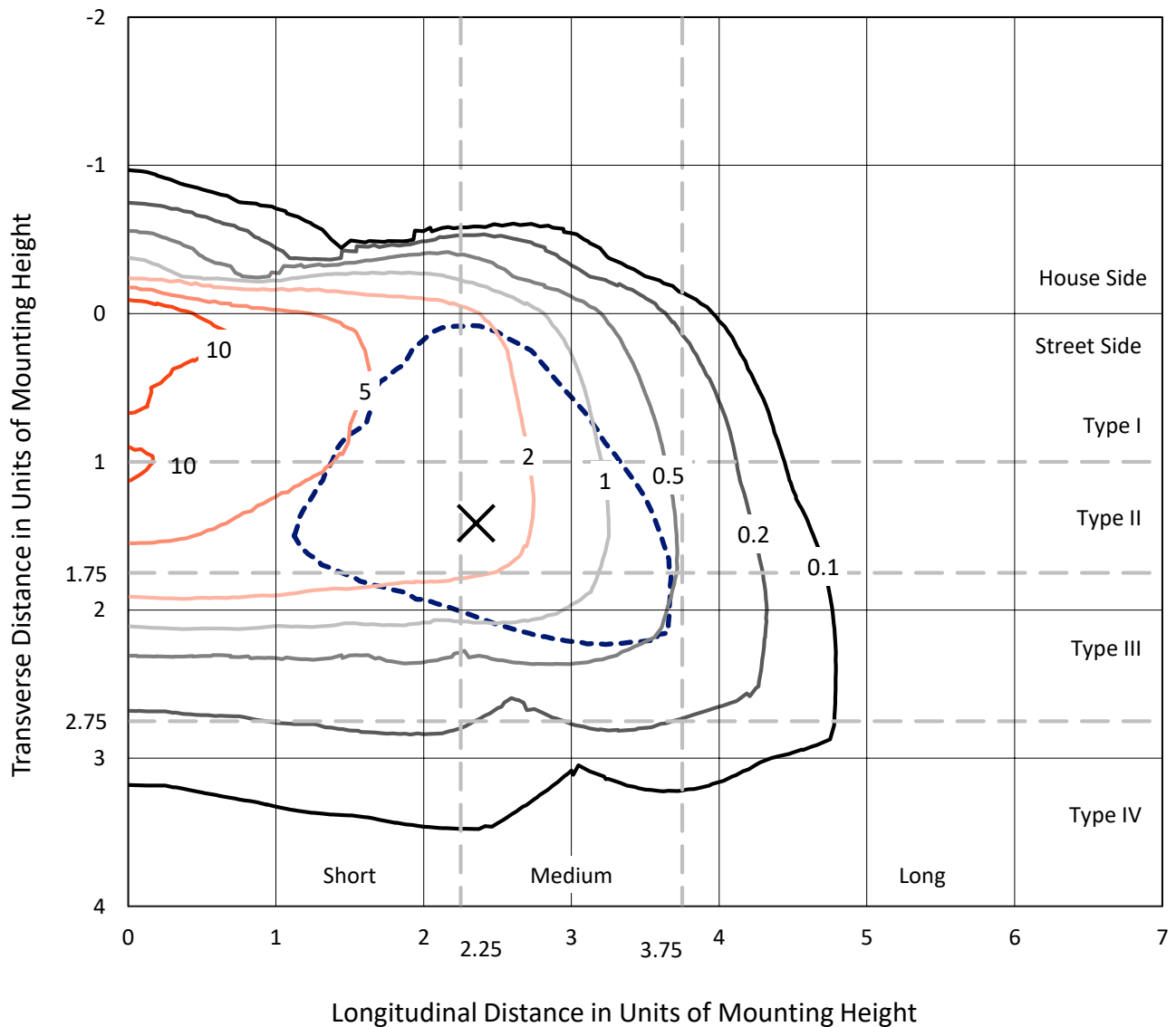
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

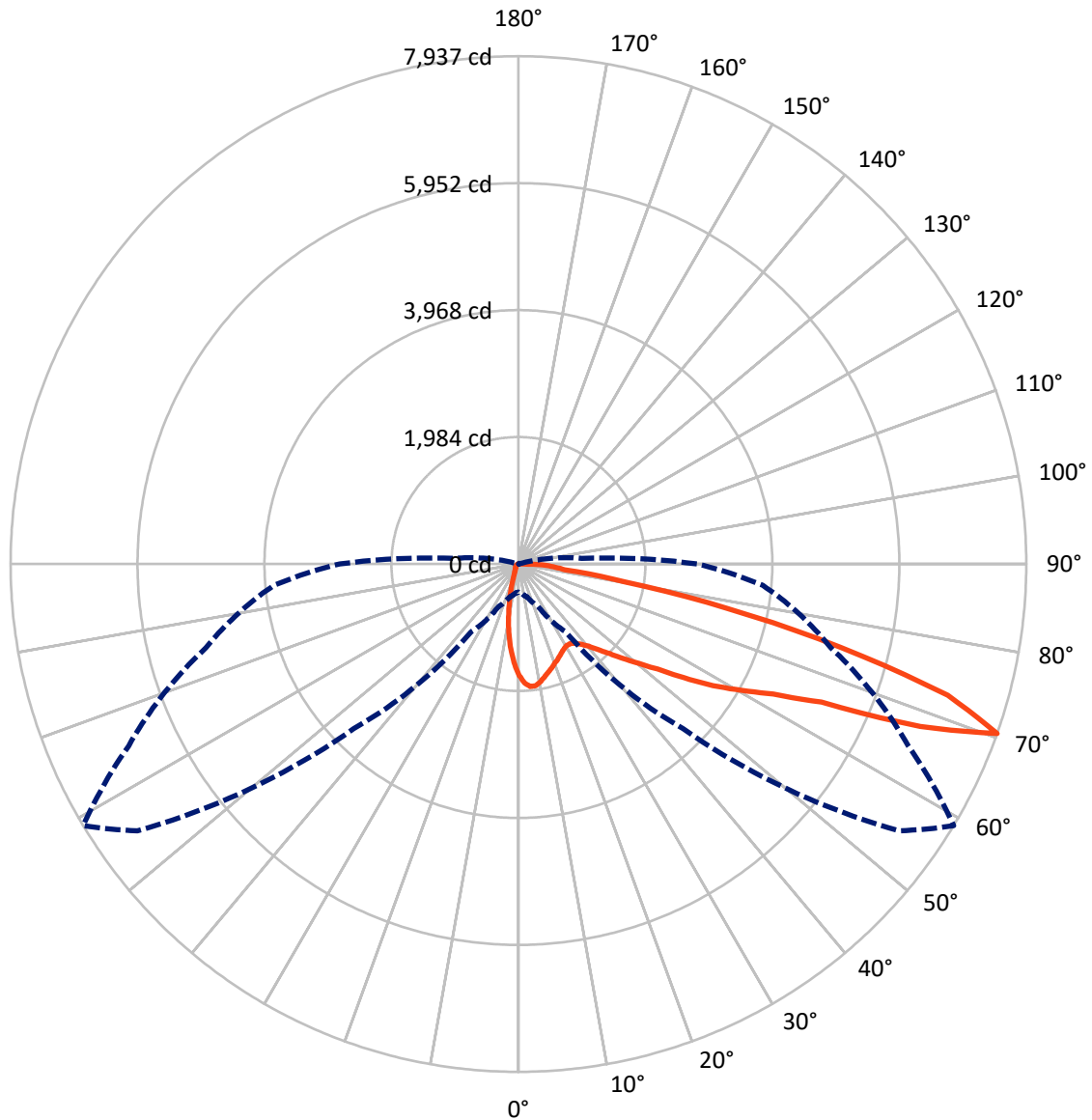
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 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	530.4	0.0	530.4
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	6369.4	0.0	6369.4
	% Fixture	92.3	0.0	92.3
Total	Lumens	6899.8	0.0	6899.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	2.1
10°-20°	300.9	4.4
20°-30°	407.3	5.9
30°-40°	587.9	8.5
40°-50°	976.3	14.1
50°-60°	1493.3	21.6
60°-70°	1857.4	26.9
70°-80°	1026.8	14.9
80°-90°	106.5	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°	6899.8	100.0
0°-180°	6899.8	100.0

Coefficient of Utilization



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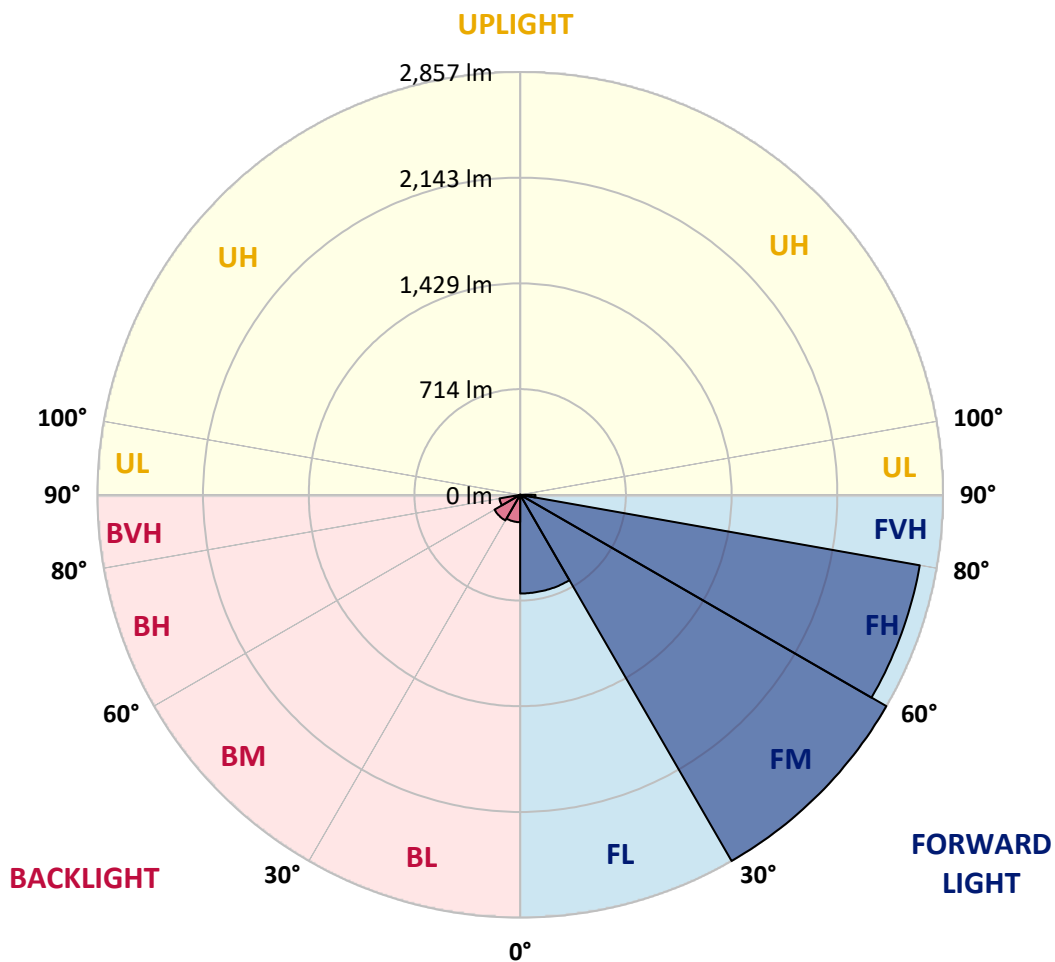
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.9	9.7			
FM	(30°-60°)	2857.3	41.4			
FH	(60°-80°)	2741.8	39.7			G2/5000
FVH	(80°-90°)	103.4	1.5			G2/225
BL	(0°-30°)	184.8	2.7	B1/500		
BM	(30°-60°)	200.2	2.9	B0/220		
BH	(60°-80°)	142.3	2.1	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7
2.5°	1972.1	1969.1	1956.0	1953.4	1938.9	1909.7	1875.9	1862.4	1834.8	1791.1	1742.6
5°	2005.0	2006.5	2007.5	2001.8	1999.8	1975.8	1938.3	1922.2	1885.2	1813.4	1724.9
7.5°	1882.1	1886.3	1899.3	1905.0	1930.0	1939.4	1931.5	1921.2	1892.0	1807.1	1682.8
10°	1752.5	1760.3	1774.4	1783.7	1814.4	1839.5	1871.2	1873.8	1867.5	1786.4	1635.4
12.5°	1641.1	1648.4	1664.0	1682.8	1714.0	1746.3	1793.6	1810.3	1831.1	1772.8	1601.5
15°	1545.4	1547.4	1562.6	1586.0	1627.1	1671.3	1727.6	1752.0	1792.6	1767.7	1575.5
17.5°	1461.6	1462.1	1471.9	1493.3	1543.3	1601.5	1667.2	1699.4	1751.0	1760.3	1552.6
20°	1406.4	1405.8	1406.4	1417.8	1462.1	1531.4	1610.9	1644.8	1710.9	1751.5	1529.2
22.5°	1387.6	1385.1	1373.1	1368.9	1397.0	1457.9	1553.1	1597.4	1675.0	1748.8	1512.0
25°	1410.5	1409.0	1383.4	1359.5	1362.2	1400.1	1494.3	1548.4	1646.8	1758.2	1507.9
27.5°	1484.5	1481.3	1442.3	1395.4	1365.7	1372.6	1450.6	1507.3	1624.4	1781.2	1513.7
30°	1581.3	1581.8	1540.2	1483.4	1413.7	1375.2	1427.2	1480.8	1609.4	1815.5	1526.1
32.5°	1689.0	1688.5	1658.8	1593.2	1504.2	1423.0	1437.7	1482.9	1611.5	1866.0	1550.1
35°	1800.4	1794.7	1784.7	1727.0	1622.9	1506.8	1485.0	1518.3	1633.3	1932.7	1590.7
37.5°	1929.0	1926.9	1936.8	1875.9	1769.7	1630.2	1568.3	1590.7	1688.5	2031.0	1656.3
40°	2133.6	2122.1	2126.7	2044.0	1935.2	1796.2	1684.9	1690.6	1776.5	2161.1	1759.8
42.5°	2523.4	2477.1	2390.1	2235.0	2117.4	1980.5	1837.3	1827.5	1900.8	2318.8	1896.1
45°	2989.3	2936.2	2717.0	2445.8	2299.6	2178.3	2025.7	1999.3	2053.9	2506.7	2072.1
47.5°	3378.0	3320.8	3030.4	2666.0	2484.8	2382.4	2234.5	2203.2	2237.1	2724.8	2283.4
50°	3510.8	3479.1	3223.9	2849.2	2671.7	2611.4	2496.3	2444.2	2452.6	2960.1	2530.2
52.5°	3449.9	3439.0	3268.2	2974.6	2844.5	2864.3	2783.1	2728.4	2719.1	3217.2	2802.9
55°	3321.3	3316.1	3232.8	3044.4	2997.0	3096.0	3185.5	3138.1	3049.6	3490.5	3028.2
57.5°	3137.6	3157.3	3217.2	3178.7	3184.4	3340.5	3559.2	3583.6	3451.4	3708.0	3195.4
60°	2646.8	2699.9	2974.1	3322.9	3589.8	3747.6	3959.4	4005.3	3791.9	3856.9	3388.4
62.5°	1956.6	2032.5	2423.5	3064.1	3813.2	4521.5	4491.9	4471.6	4116.7	4056.2	3739.8
65°	1149.3	1238.3	1568.8	2394.3	3476.4	5019.2	5486.1	5205.0	4611.7	4470.6	4299.4
67.5°	572.5	573.1	722.4	1263.8	2569.1	4672.0	6937.2	6774.8	5664.1	5081.1	4520.0
70°	440.4	452.3	534.6	734.4	1299.1	3638.8	7269.8	7936.6	6721.7	5054.1	3835.0
72.5°	373.2	381.0	475.8	639.1	971.3	1997.7	6293.4	7015.3	6414.1	4270.2	2826.8
75°	268.6	274.9	421.0	579.8	894.3	991.0	4317.1	5202.9	4812.6	3003.8	1555.8
77.5°	66.6	66.1	146.8	470.6	800.0	825.5	2477.1	3336.4	2761.3	1229.9	399.8
80°	29.7	28.6	33.3	98.9	744.3	779.2	1089.4	1684.9	1059.3	199.4	122.3
82.5°	20.9	19.7	20.9	36.4	248.8	723.0	658.5	730.3	387.8	68.2	52.1
85°	6.8	6.2	11.5	30.7	69.8	417.0	642.3	545.4	288.4	29.2	34.9
87.5°	1.0	1.0	4.2	16.7	20.3	139.0	376.9	377.9	129.6	17.2	15.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7
2.5°	1718.1	1687.5	1644.3	1601.0	1562.0	1521.9	1489.6	1474.6	1467.8	1458.4	1438.2
5°	1678.6	1622.9	1528.2	1435.0	1348.0	1264.8	1193.5	1152.9	1109.2	1107.1	1085.8
7.5°	1615.1	1536.0	1386.6	1241.9	1109.2	982.1	872.9	802.1	753.7	723.5	702.7
10°	1544.3	1442.9	1245.0	1041.6	860.9	691.2	550.7	459.1	403.3	375.3	359.2
12.5°	1488.1	1360.6	1105.5	849.5	623.1	428.4	297.7	231.1	201.4	190.0	184.7
15°	1439.7	1285.1	974.9	677.7	415.8	246.2	172.3	150.4	145.8	145.8	145.3
17.5°	1390.8	1212.2	847.9	509.0	261.8	161.3	135.8	132.7	133.3	134.8	134.8
20°	1344.5	1143.0	725.6	362.7	171.8	129.1	123.4	122.3	123.9	125.9	125.4
22.5°	1306.9	1082.1	611.1	249.3	132.2	117.1	113.4	111.9	112.9	114.5	114.0
25°	1280.4	1030.1	506.0	173.8	115.0	106.7	102.5	100.5	99.4	100.5	99.9
27.5°	1264.3	986.3	407.0	130.6	103.0	96.3	91.0	87.0	84.3	84.3	83.3
30°	1253.8	945.2	319.1	108.2	93.2	85.9	78.6	72.8	68.7	67.6	67.1
32.5°	1253.3	909.8	238.3	95.7	83.8	75.5	66.6	59.3	54.6	53.6	53.1
35°	1266.4	881.2	175.4	86.4	75.5	65.6	55.6	47.9	43.7	43.7	43.2
37.5°	1300.2	864.6	132.7	79.1	68.7	57.3	46.9	39.6	35.9	36.9	36.9
40°	1363.2	861.4	108.2	73.3	63.0	49.9	38.0	32.2	30.7	32.2	32.2
42.5°	1459.4	878.1	96.3	69.3	57.8	42.7	31.7	27.6	27.1	28.6	28.6
45°	1585.0	910.8	89.5	65.6	52.1	35.4	26.5	23.9	23.4	25.5	25.5
47.5°	1736.9	955.1	83.3	61.4	46.3	29.2	22.4	20.3	20.3	22.4	22.9
50°	1917.0	1015.0	77.0	57.3	41.6	24.4	18.7	17.2	17.7	19.7	20.3
52.5°	2124.2	1088.3	71.3	53.6	36.4	19.7	15.7	14.5	15.1	17.2	17.7
55°	2302.7	1152.4	64.5	49.9	29.7	16.2	13.0	12.5	13.0	15.7	15.7
57.5°	2458.4	1213.8	58.3	44.2	23.4	13.0	10.4	10.4	11.5	14.0	14.5
60°	2665.0	1310.6	53.1	37.4	17.7	9.9	8.3	8.8	10.4	12.5	13.0
62.5°	3030.9	1475.1	46.3	31.2	13.0	7.8	6.8	7.3	9.4	12.0	12.5
65°	3488.9	1630.7	38.6	26.0	9.9	5.7	5.2	6.8	9.4	12.0	12.5
67.5°	3442.0	1418.3	30.2	20.9	7.3	4.7	4.2	6.2	8.8	12.0	12.5
70°	2791.4	994.1	22.4	14.0	5.7	4.2	4.2	6.2	8.8	11.5	12.0
72.5°	1936.2	553.3	17.2	9.4	5.2	4.2	3.7	5.7	8.3	11.5	12.0
75°	921.3	169.7	13.5	6.8	4.7	3.7	3.2	5.7	8.3	11.5	12.0
77.5°	177.0	43.2	10.9	5.7	4.2	3.7	3.2	5.2	8.3	10.9	11.5
80°	59.8	19.2	8.8	5.2	4.2	3.7	3.2	5.2	7.8	10.4	10.9
82.5°	32.8	10.9	7.8	4.7	4.2	3.2	2.6	4.7	7.3	10.4	10.9
85°	25.5	7.8	6.2	4.7	4.2	3.2	2.6	4.7	7.3	9.9	10.4
87.5°	13.0	5.7	5.2	4.7	4.2	3.2	2.6	4.2	6.8	9.4	10.4
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)