

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: P198891

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
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-SL4-7050-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7579 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

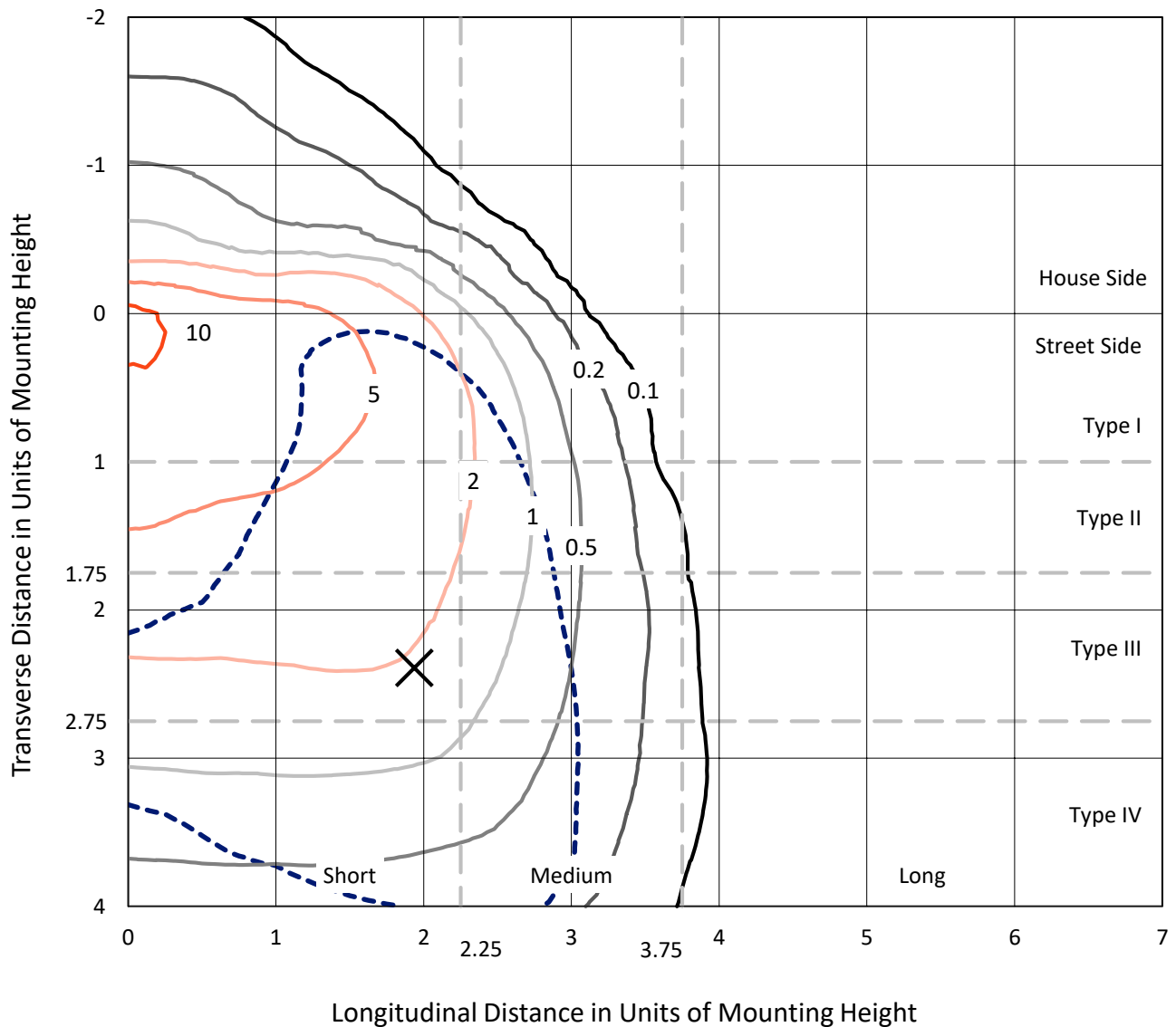
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

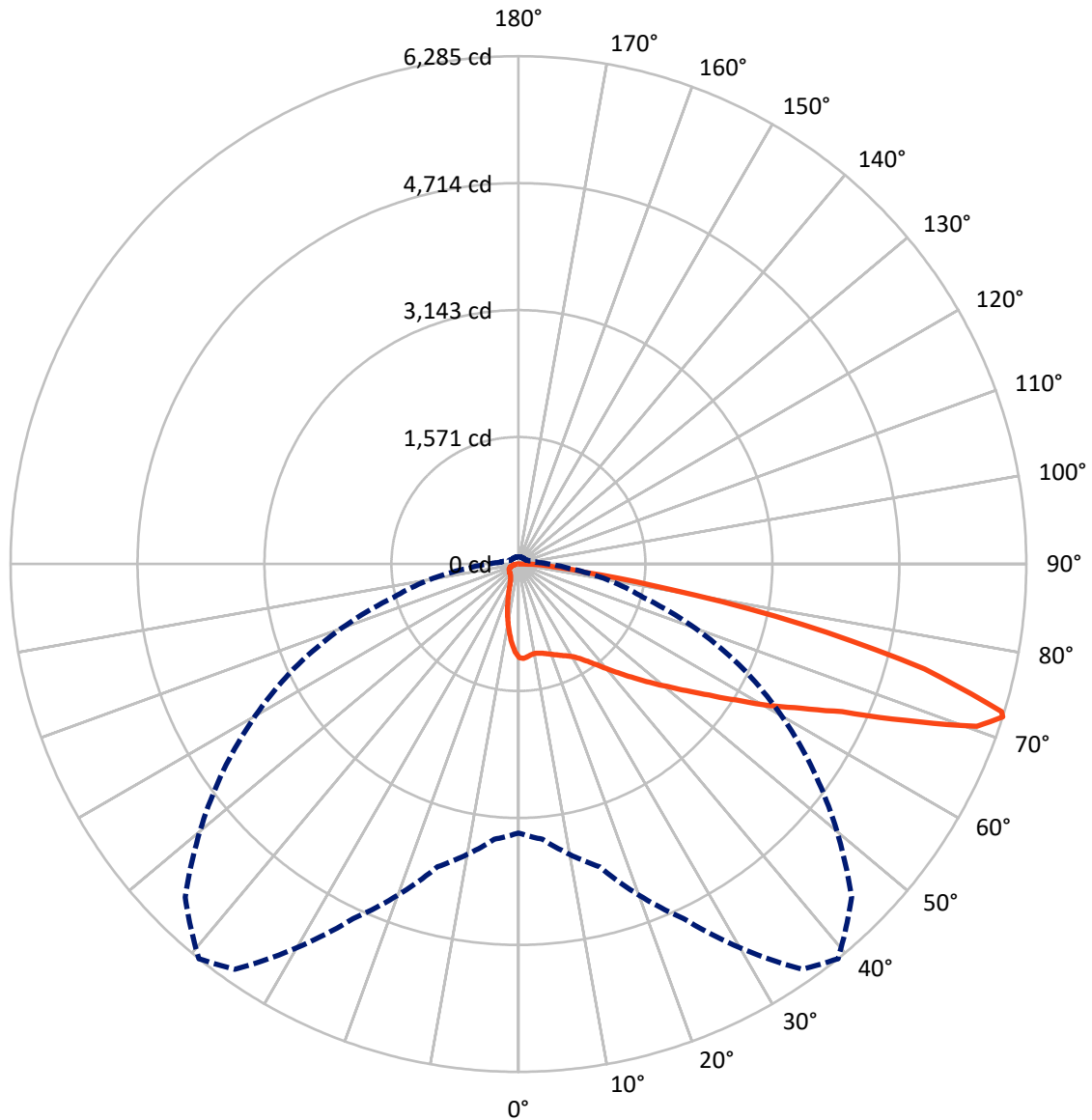


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	869.0	0.0	869.0
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	6710.0	0.0	6710.0
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	7579.0	0.0	7579.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	1.3
10°-20°	249.9	3.3
20°-30°	389.5	5.1
30°-40°	599.7	7.9
40°-50°	977.7	12.9
50°-60°	1519.2	20.0
60°-70°	2033.4	26.8
70°-80°	1462.3	19.3
80°-90°	247.9	3.3
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°	7579.0	100.0
0°-180°	7579.0	100.0

**Coefficient of Utilization**



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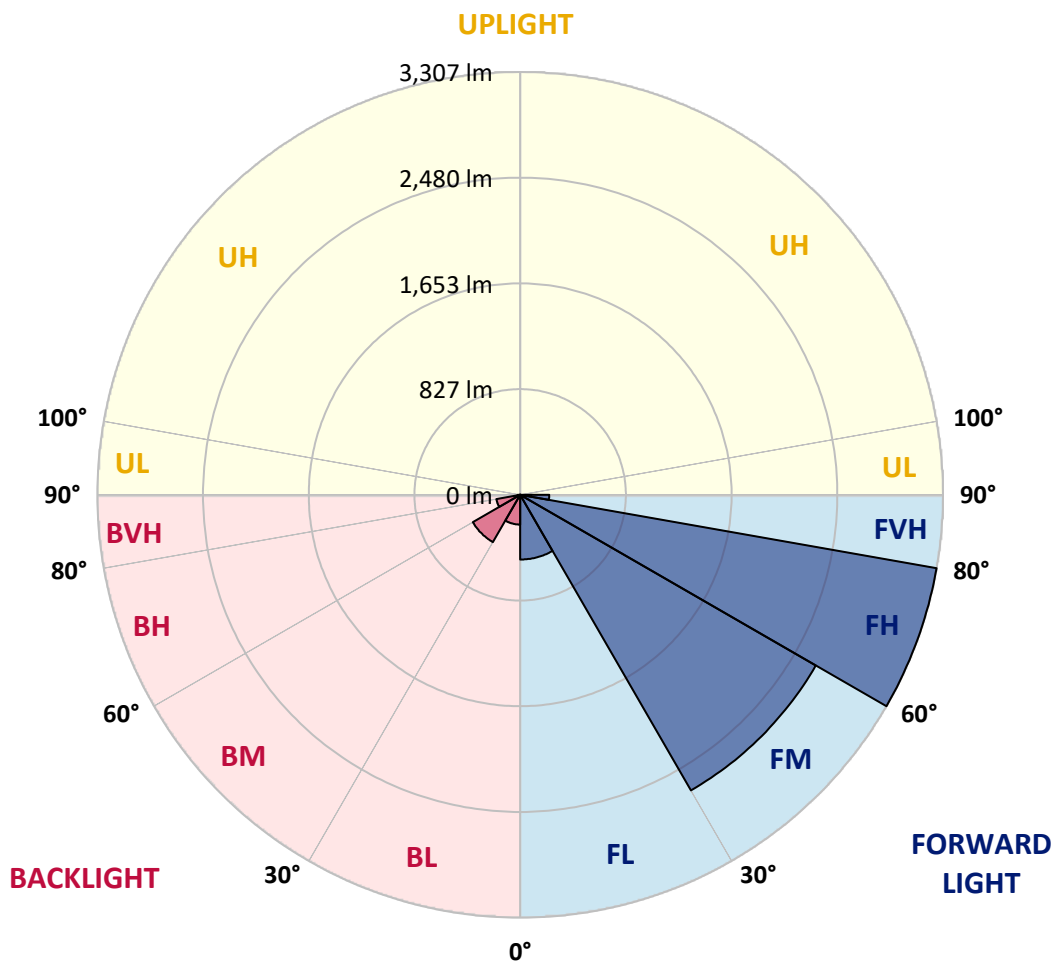
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.3	6.7			
FM	(30°-60°)	2669.5	35.2			
FH	(60°-80°)	3306.8	43.6			G2/5000
FVH	(80°-90°)	227.4	3.0			G3/500
BL	(0°-30°)	232.6	3.1	B1/500		
BM	(30°-60°)	427.1	5.6	B1/1000		
BH	(60°-80°)	188.8	2.5	B1/500		G1/500
BVH	(80°-90°)	20.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1182.4	1182.9	1181.4	1176.8	1172.7	1170.7	1167.1	1161.0	1152.9	1147.3	1142.7
5°	1171.2	1172.7	1171.7	1164.1	1156.9	1152.9	1147.3	1138.6	1127.9	1123.4	1112.7
7.5°	1162.5	1163.6	1160.5	1151.9	1138.1	1133.0	1122.9	1111.7	1102.0	1095.4	1082.7
10°	1156.4	1157.4	1154.9	1146.3	1131.0	1124.9	1112.7	1100.5	1087.7	1079.6	1065.4
12.5°	1147.8	1149.8	1149.8	1145.7	1135.6	1131.5	1119.3	1106.1	1094.4	1085.7	1067.9
15°	1146.3	1148.8	1153.4	1152.9	1149.8	1146.8	1137.1	1123.9	1113.7	1103.5	1081.6
17.5°	1159.0	1164.6	1173.7	1176.8	1174.7	1168.1	1156.9	1144.7	1133.5	1123.9	1096.9
20°	1191.0	1194.1	1207.8	1213.9	1203.7	1194.1	1179.3	1163.6	1153.4	1145.7	1111.2
22.5°	1239.4	1243.4	1254.6	1255.1	1233.8	1222.1	1203.2	1183.9	1174.2	1171.2	1130.5
25°	1316.7	1315.7	1318.7	1306.0	1267.3	1253.6	1230.7	1208.3	1201.7	1207.8	1159.0
27.5°	1409.3	1406.7	1397.1	1364.0	1305.5	1287.7	1260.2	1240.4	1240.4	1254.6	1197.6
30°	1516.1	1513.6	1482.0	1426.6	1350.8	1330.4	1301.4	1280.6	1291.3	1318.7	1250.0
32.5°	1629.1	1619.9	1575.7	1501.4	1415.4	1393.0	1365.0	1343.7	1364.0	1410.8	1325.3
35°	1735.4	1730.3	1675.9	1587.9	1498.8	1480.0	1460.7	1434.2	1466.8	1539.5	1431.7
37.5°	1845.3	1841.2	1774.6	1681.0	1600.6	1587.9	1571.6	1553.3	1605.7	1701.3	1575.7
40°	1967.9	1959.8	1875.8	1782.2	1719.1	1713.0	1704.4	1699.3	1783.7	1926.2	1757.8
42.5°	2106.8	2091.0	1982.7	1893.6	1848.4	1853.4	1848.9	1869.2	1998.4	2185.7	1974.5
45°	2265.5	2234.0	2089.0	2012.2	1991.3	2011.7	2021.3	2073.2	2252.3	2485.3	2216.7
47.5°	2414.1	2373.4	2205.5	2140.9	2152.6	2187.7	2215.2	2306.8	2530.6	2781.4	2464.0
50°	2551.0	2505.2	2330.2	2274.2	2331.2	2381.0	2438.0	2567.2	2826.7	3086.2	2690.9
52.5°	2652.2	2619.1	2454.8	2419.7	2536.2	2602.4	2693.4	2856.7	3125.9	3376.7	2893.4
55°	2730.6	2712.8	2576.4	2586.6	2768.2	2862.8	2973.2	3161.0	3442.3	3637.2	3056.2
57.5°	2821.1	2807.9	2715.3	2788.1	3056.2	3175.2	3305.5	3514.1	3743.5	3866.6	3183.9
60°	2916.8	2916.8	2870.0	3030.7	3416.4	3552.7	3682.5	3844.8	4043.7	4073.2	3235.8
62.5°	2989.0	3007.8	3024.6	3289.2	3758.3	3927.7	4070.2	4225.8	4354.6	4175.0	3113.7
65°	3093.8	3134.0	3228.6	3587.8	4181.6	4403.4	4595.7	4726.5	4606.4	4094.1	2715.3
67.5°	3273.9	3333.5	3534.9	4032.5	4829.7	5162.0	5348.7	5122.8	4557.0	3584.8	2079.8
70°	3436.2	3520.2	3864.6	4596.7	5672.3	6017.2	5931.2	5030.7	3968.9	2627.8	1279.6
72°	3328.4	3419.9	3879.9	4842.5	6122.5	6285.3	5832.0	4458.3	3066.9	1603.6	630.9
72.5°	3257.6	3352.8	3830.5	4836.4	6134.7	6251.2	5694.1	4230.9	2784.0	1403.2	510.3
75°	2721.4	2802.8	3293.8	4286.4	5406.2	5192.5	4443.6	2738.2	1279.6	453.3	262.5
77.5°	1777.1	1839.2	2271.1	2969.7	3786.8	3581.2	2704.6	1282.1	479.8	275.2	197.4
80°	892.9	937.2	1215.4	1561.4	2043.7	1880.4	1248.5	620.2	321.0	198.9	155.2
82.5°	621.2	661.9	836.9	797.2	854.2	826.7	587.1	517.4	240.1	125.7	81.4
85°	521.0	563.2	692.4	568.3	465.0	423.8	420.8	488.9	158.7	62.1	68.7
87.5°	454.3	518.4	571.3	415.2	319.0	281.3	309.8	448.2	50.4	34.1	20.9
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°	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1135.1	1133.5	1125.9	1114.2	1105.6	1100.0	1089.3	1088.8	1089.8	1080.6	1084.2
5°	1103.0	1096.9	1077.1	1050.1	1028.2	1007.4	984.5	976.8	970.2	956.5	958.0
7.5°	1069.4	1058.7	1024.2	979.9	937.7	899.0	860.8	842.0	827.8	810.0	810.0
10°	1049.6	1032.8	979.9	915.3	848.1	791.6	734.7	700.6	675.6	652.8	651.2
12.5°	1048.6	1023.1	949.4	860.3	768.2	688.9	611.0	558.6	521.5	494.5	492.0
15°	1056.7	1021.1	923.9	808.9	692.9	589.7	493.5	426.9	379.5	349.5	346.5
17.5°	1063.8	1018.6	896.5	755.0	619.7	494.0	387.2	318.0	273.2	248.8	246.2
20°	1070.4	1013.0	861.3	698.0	538.8	404.5	302.7	246.8	217.2	203.5	202.0
22.5°	1080.1	1007.9	824.7	633.9	459.4	329.2	249.8	209.6	193.8	187.2	186.2
25°	1095.9	1008.4	789.1	568.3	386.7	274.2	216.2	191.3	182.6	178.1	178.1
27.5°	1118.8	1014.5	754.0	501.6	325.1	236.6	196.4	181.6	176.0	172.5	171.5
30°	1152.4	1025.7	716.9	438.6	276.3	210.6	184.7	175.5	170.9	167.9	167.4
32.5°	1201.2	1045.5	677.7	381.1	239.1	192.3	176.0	170.4	166.9	164.3	163.8
35°	1274.0	1080.6	639.5	332.2	212.7	179.1	168.9	164.3	162.3	161.3	160.8
37.5°	1380.8	1137.1	603.4	294.1	195.4	170.4	161.8	159.2	158.2	158.2	158.2
40°	1515.1	1211.4	570.8	267.1	185.7	163.8	156.7	154.7	154.7	155.2	155.2
42.5°	1678.4	1304.5	542.9	248.8	180.1	159.2	153.1	152.1	151.6	151.6	152.1
45°	1868.2	1414.4	525.6	234.5	176.0	156.7	150.6	150.1	148.1	147.0	147.0
47.5°	2059.0	1531.9	524.5	226.4	170.9	153.6	148.1	148.1	144.0	141.9	142.5
50°	2237.1	1637.2	535.7	224.4	167.9	149.1	145.5	146.0	140.4	137.9	137.4
52.5°	2380.5	1717.6	549.5	226.9	167.9	145.0	140.9	143.5	137.4	134.3	133.8
55°	2491.4	1773.6	554.6	232.5	169.9	141.4	136.9	140.9	136.4	132.3	132.3
57.5°	2570.8	1791.4	532.7	235.1	173.0	140.9	132.8	140.4	137.9	132.8	132.8
60°	2541.8	1688.1	451.3	225.4	172.5	139.9	129.7	141.4	143.0	137.4	137.4
62.5°	2315.4	1412.3	362.2	203.5	163.8	136.4	126.2	140.4	146.5	144.5	143.5
65°	1885.0	1035.9	280.8	177.6	149.1	128.7	118.5	131.3	138.4	140.4	140.9
67.5°	1328.4	655.8	218.3	151.1	130.8	117.5	109.9	116.0	118.5	119.6	121.6
70°	726.5	355.1	173.5	127.2	111.9	106.3	100.7	101.2	100.2	99.2	100.2
72°	364.8	232.0	146.5	110.4	99.2	95.6	93.1	91.6	91.6	90.1	90.6
72.5°	313.9	215.7	141.4	106.3	96.2	93.1	91.1	89.5	89.0	88.0	88.5
75°	209.1	170.9	118.0	89.0	81.9	79.9	80.9	79.4	79.9	78.9	79.4
77.5°	168.9	147.0	100.2	75.3	70.2	67.2	69.2	69.7	70.7	69.7	69.2
80°	141.4	125.2	83.9	62.1	58.5	56.0	57.0	60.5	61.1	58.0	57.5
82.5°	91.6	100.7	66.1	48.3	44.8	43.8	46.3	49.9	50.9	46.8	45.8
85°	76.8	80.9	47.8	33.1	29.5	28.5	33.6	37.1	39.7	35.6	34.6
87.5°	21.4	39.7	23.4	15.8	13.2	13.2	16.3	19.3	22.9	23.4	23.4
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)