

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: P198539

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198539
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-SL2-7030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 615mA 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: 6895 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-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

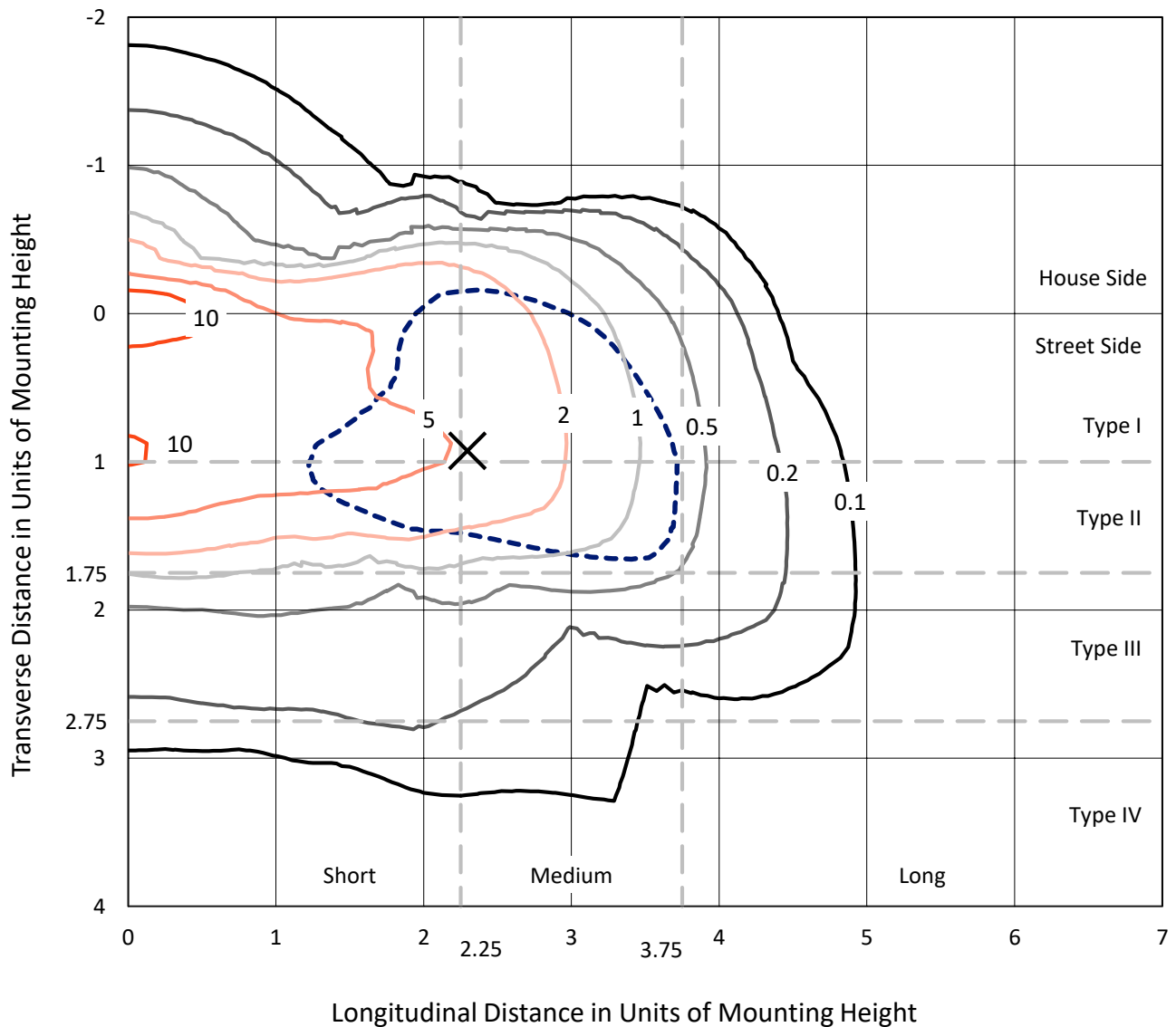


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

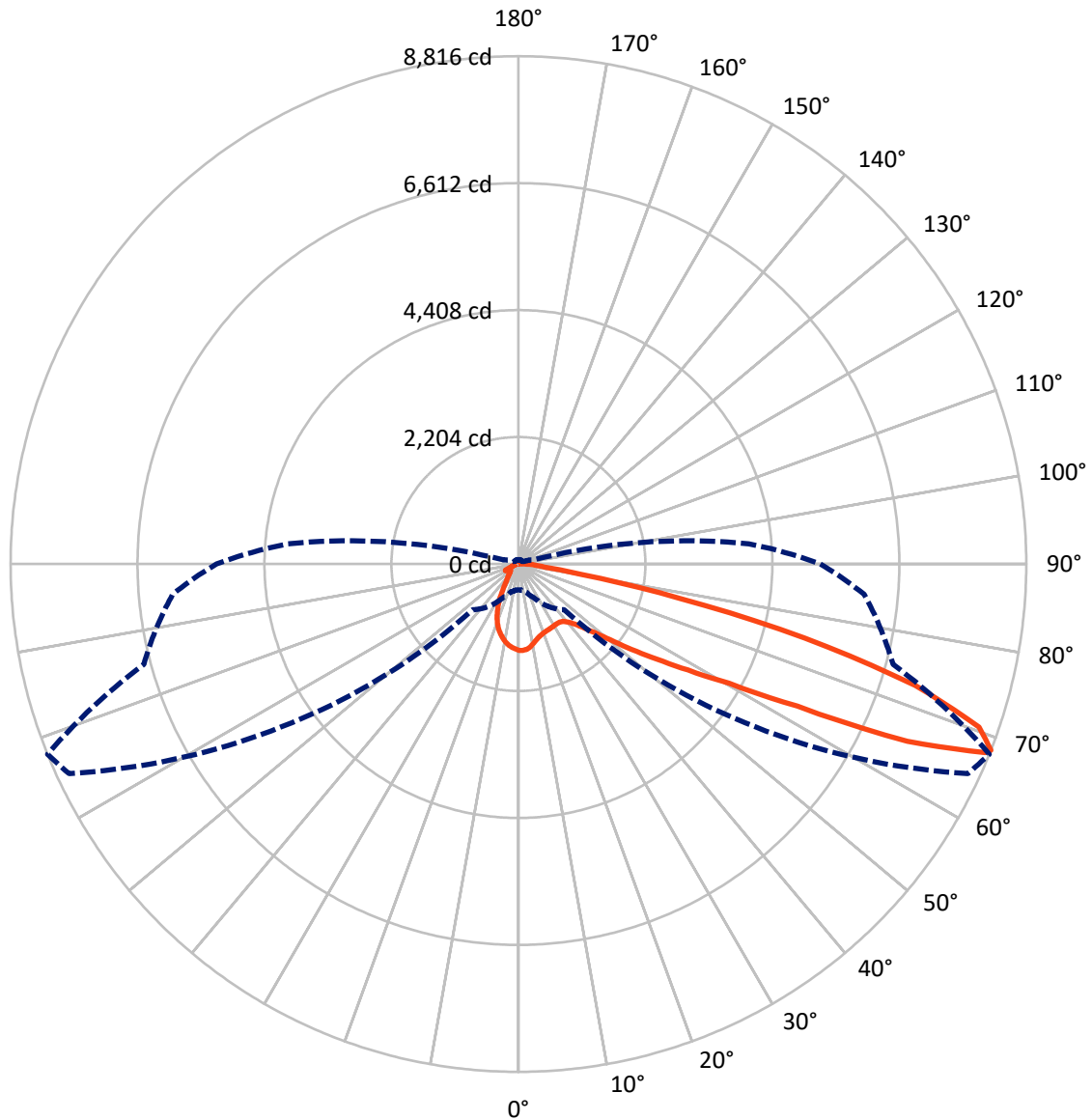


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - Semi-Cutoff

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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	1128.0	0.0	1128.0
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	5767.0	0.0	5767.0
	% Fixture	83.6	0.0	83.6
Total	Lumens	6895.0	0.0	6895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.9
10°-20°	298.2	4.3
20°-30°	403.2	5.8
30°-40°	568.6	8.2
40°-50°	934.9	13.6
50°-60°	1449.2	21.0
60°-70°	1879.0	27.3
70°-80°	1078.3	15.6
80°-90°	155.1	2.3
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°	6895.0	100.0
0°-180°	6895.0	100.0

Coefficient of Utilization



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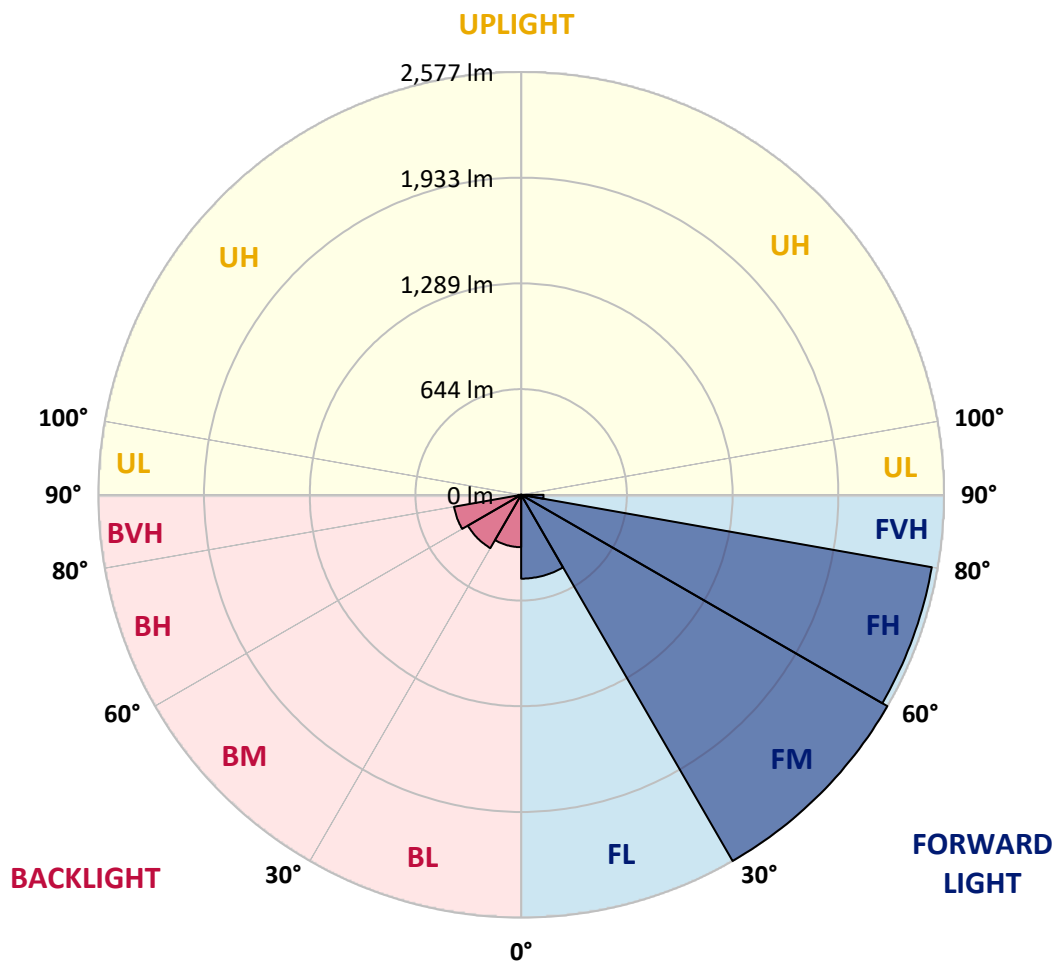
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.0	7.4			
FM (30°-60°)	2577.5	37.4			
FH (60°-80°)	2541.8	36.9			G2/5000
FVH (80°-90°)	136.6	2.0			G2/225
BL (0°-30°)	318.9	4.6	B1/500		
BM (30°-60°)	375.2	5.4	B1/1000		
BH (60°-80°)	415.4	6.0	B1/500		G1/500
BVH (80°-90°)	18.5	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1460.2	1471.9	1471.9	1480.5	1488.1	1494.4	1499.8	1499.8	1499.8	1496.2	1493.1
5°	1306.6	1322.4	1324.6	1346.3	1374.6	1409.3	1448.0	1482.3	1489.0	1501.6	1506.6
7.5°	1199.9	1204.8	1213.4	1228.2	1257.1	1299.9	1360.7	1437.2	1455.7	1495.3	1516.1
10°	1124.2	1128.3	1135.5	1150.3	1176.5	1215.2	1275.1	1374.6	1405.3	1475.5	1516.5
12.5°	1068.8	1072.0	1078.7	1092.2	1118.8	1153.5	1214.7	1318.3	1356.2	1455.7	1522.8
15°	1025.6	1031.0	1036.4	1049.4	1076.5	1109.8	1171.9	1277.3	1318.3	1439.9	1534.5
17.5°	1008.5	1011.2	1012.1	1018.8	1043.1	1076.9	1139.1	1248.5	1290.9	1427.3	1543.5
20°	1019.3	1019.7	1010.7	1006.2	1020.2	1051.2	1111.6	1226.9	1270.1	1416.1	1547.1
22.5°	1066.6	1066.6	1043.1	1023.3	1013.9	1033.2	1093.1	1212.0	1258.9	1407.5	1547.1
25°	1156.6	1152.6	1116.1	1076.9	1035.0	1026.9	1081.4	1202.6	1250.3	1403.0	1541.3
27.5°	1275.1	1271.5	1225.1	1167.0	1091.3	1040.4	1077.4	1194.9	1241.8	1396.2	1528.7
30°	1419.2	1416.1	1363.4	1287.3	1175.6	1083.2	1086.8	1189.5	1235.0	1385.0	1507.5
32.5°	1562.9	1561.1	1519.2	1441.3	1291.8	1155.7	1111.6	1188.6	1231.4	1371.5	1481.8
35°	1707.5	1707.5	1681.8	1616.0	1448.0	1264.7	1163.4	1205.3	1238.2	1364.3	1459.8
37.5°	1921.0	1912.4	1864.7	1796.7	1644.9	1406.2	1247.2	1240.4	1264.3	1376.4	1452.5
40°	2251.6	2226.8	2107.4	1993.0	1859.7	1587.2	1369.7	1308.4	1322.8	1417.9	1469.7
42.5°	2597.5	2558.3	2400.2	2217.3	2081.8	1810.6	1530.5	1418.8	1418.3	1498.0	1524.2
45°	2894.3	2874.0	2702.9	2470.9	2335.3	2061.9	1733.6	1582.7	1566.5	1622.3	1629.1
47.5°	3066.8	3053.3	2950.1	2739.3	2636.2	2358.8	1991.2	1810.2	1779.5	1812.9	1802.5
50°	3019.0	3032.1	3002.4	2894.7	2959.6	2775.8	2319.6	2121.8	2063.7	2097.1	2071.9
52.5°	2767.7	2802.9	2829.4	2850.1	3145.6	3333.9	2732.1	2511.0	2462.8	2456.9	2432.6
55°	2315.1	2370.9	2454.7	2606.9	3095.6	3782.0	3452.8	2981.7	2911.4	2874.5	2883.9
57.5°	1575.5	1660.2	1840.8	2130.4	2835.7	3973.0	4518.4	3589.7	3470.8	3339.3	3369.9
60°	867.9	938.6	1153.5	1445.3	2242.6	3944.6	5462.9	4577.9	4203.6	3855.0	3918.1
62.5°	561.7	577.0	736.9	987.3	1376.4	3482.5	5987.6	6229.5	5436.4	4535.1	4623.8
65°	451.3	462.1	540.5	796.3	958.9	2240.3	6011.1	7942.8	7419.9	5459.3	5462.0
67.5°	440.9	445.9	491.4	669.7	899.5	1219.7	5195.8	8618.5	8739.6	6550.2	6022.8
68°	447.2	453.1	499.0	649.0	899.0	1124.2	4802.2	8608.1	8815.7	6732.6	6022.8
70°	394.6	401.8	509.0	671.6	860.7	966.6	3288.4	8150.9	8485.1	7151.9	5714.7
72.5°	206.3	200.4	251.8	530.1	968.8	1007.1	1737.2	6809.6	7199.7	6623.6	4937.3
75°	160.8	146.4	141.0	209.4	852.2	1044.5	1008.9	4840.0	5134.6	4774.7	3300.1
77.5°	151.3	133.8	123.4	123.9	375.2	1086.8	816.1	2848.3	2848.3	2277.7	1053.0
80°	121.6	105.4	98.6	112.6	181.1	1001.7	851.7	1298.1	1107.1	588.7	290.1
82.5°	80.2	71.6	72.1	91.4	137.4	668.8	986.4	640.9	481.5	260.8	170.7
85°	50.9	43.7	48.6	64.0	102.7	298.2	976.5	445.4	318.9	146.4	85.1
87.5°	25.7	19.8	24.3	33.3	62.6	85.6	804.0	397.7	236.5	60.8	46.4
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°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1493.1	1483.2	1478.2	1470.1	1460.2	1450.3	1443.5	1440.4	1438.6	1439.5	1439.0
5°	1503.9	1490.8	1469.7	1439.5	1408.4	1375.5	1350.3	1330.9	1318.8	1315.2	1314.3
7.5°	1512.0	1493.1	1453.4	1398.5	1345.4	1287.7	1238.6	1199.4	1172.8	1160.7	1160.2
10°	1510.6	1486.3	1423.7	1342.6	1264.7	1180.1	1103.0	1037.3	989.5	966.6	965.7
12.5°	1512.0	1478.7	1387.2	1277.3	1165.6	1044.5	930.1	827.8	756.7	722.9	721.5
15°	1517.4	1470.6	1349.9	1204.4	1049.9	878.7	715.2	586.9	522.0	499.9	499.9
17.5°	1517.0	1457.1	1306.6	1119.7	912.5	683.3	488.2	409.0	402.7	422.9	426.1
20°	1507.9	1435.4	1250.8	1019.3	751.3	472.9	331.0	319.8	370.2	426.1	432.4
22.5°	1494.0	1407.5	1186.4	902.6	563.5	308.1	255.4	272.5	341.0	410.3	420.2
25°	1474.6	1373.7	1112.5	767.0	374.7	221.6	213.0	234.2	282.4	328.8	336.0
27.5°	1446.2	1330.9	1031.9	620.2	239.2	182.4	185.6	200.4	221.1	241.0	245.0
30°	1410.7	1280.9	944.0	457.6	181.5	163.0	168.5	177.5	186.5	199.1	201.8
32.5°	1374.6	1230.0	852.6	314.4	158.5	152.7	158.1	163.0	170.7	179.3	181.1
35°	1342.2	1182.8	758.5	219.3	148.6	145.9	148.6	151.8	159.4	168.0	168.9
37.5°	1318.8	1144.0	660.3	173.4	142.8	140.1	141.4	142.8	151.8	164.4	165.7
40°	1315.6	1118.3	560.8	155.8	138.3	134.7	133.8	134.7	146.4	160.8	162.1
42.5°	1346.3	1119.7	463.5	148.6	134.7	130.6	127.0	128.8	139.2	150.4	151.3
45°	1418.8	1151.2	379.2	145.5	131.5	128.4	123.0	123.9	128.8	134.7	135.6
47.5°	1546.7	1220.1	314.8	143.7	128.8	126.1	119.4	116.7	117.1	120.3	120.3
50°	1751.2	1335.4	275.6	141.9	126.6	121.6	114.0	108.5	107.2	109.0	109.4
52.5°	2056.1	1533.2	256.7	138.3	122.5	115.8	107.2	101.8	99.5	101.3	101.3
55°	2468.2	1848.9	247.7	133.3	117.6	108.5	100.9	96.4	94.6	95.9	95.9
57.5°	2938.0	2259.2	263.0	126.6	111.2	100.9	95.5	92.3	91.0	92.3	92.8
60°	3496.0	2796.1	368.4	118.0	104.5	94.1	91.0	89.2	88.3	89.6	89.6
62.5°	4237.8	3510.4	570.2	111.2	97.3	87.8	86.9	86.0	85.1	86.5	86.5
65°	5038.7	4160.4	586.9	107.2	91.0	82.4	82.9	82.9	82.0	83.3	83.3
67.5°	5293.6	4104.1	327.9	102.2	83.3	77.0	78.8	78.8	78.4	79.7	79.3
68°	5239.5	4014.9	285.6	100.9	82.0	75.7	77.5	77.9	77.5	78.8	78.4
70°	4836.9	3524.8	187.8	93.2	76.1	71.2	73.9	74.3	73.9	75.7	75.2
72.5°	3992.8	2643.9	138.7	81.5	68.9	65.3	68.0	68.5	68.9	70.7	70.3
75°	2535.8	1460.2	109.4	69.4	61.7	58.6	61.3	62.6	63.5	66.2	64.9
77.5°	694.5	443.2	88.7	59.0	53.1	51.8	53.6	55.4	56.3	59.5	57.2
80°	243.2	195.9	73.9	50.0	44.1	43.7	45.5	47.3	48.2	50.9	48.2
82.5°	147.7	127.9	59.0	39.2	34.7	34.2	36.5	38.3	39.2	39.2	37.4
85°	77.0	67.6	43.2	27.5	23.9	22.5	26.6	28.8	29.3	28.8	27.5
87.5°	43.2	38.3	23.0	13.1	10.8	11.3	14.0	17.1	18.5	18.0	17.1
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)