

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: P271307

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-7027-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5631.7 lumens
Efficiency: N/A
Efficacy: 85.3 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

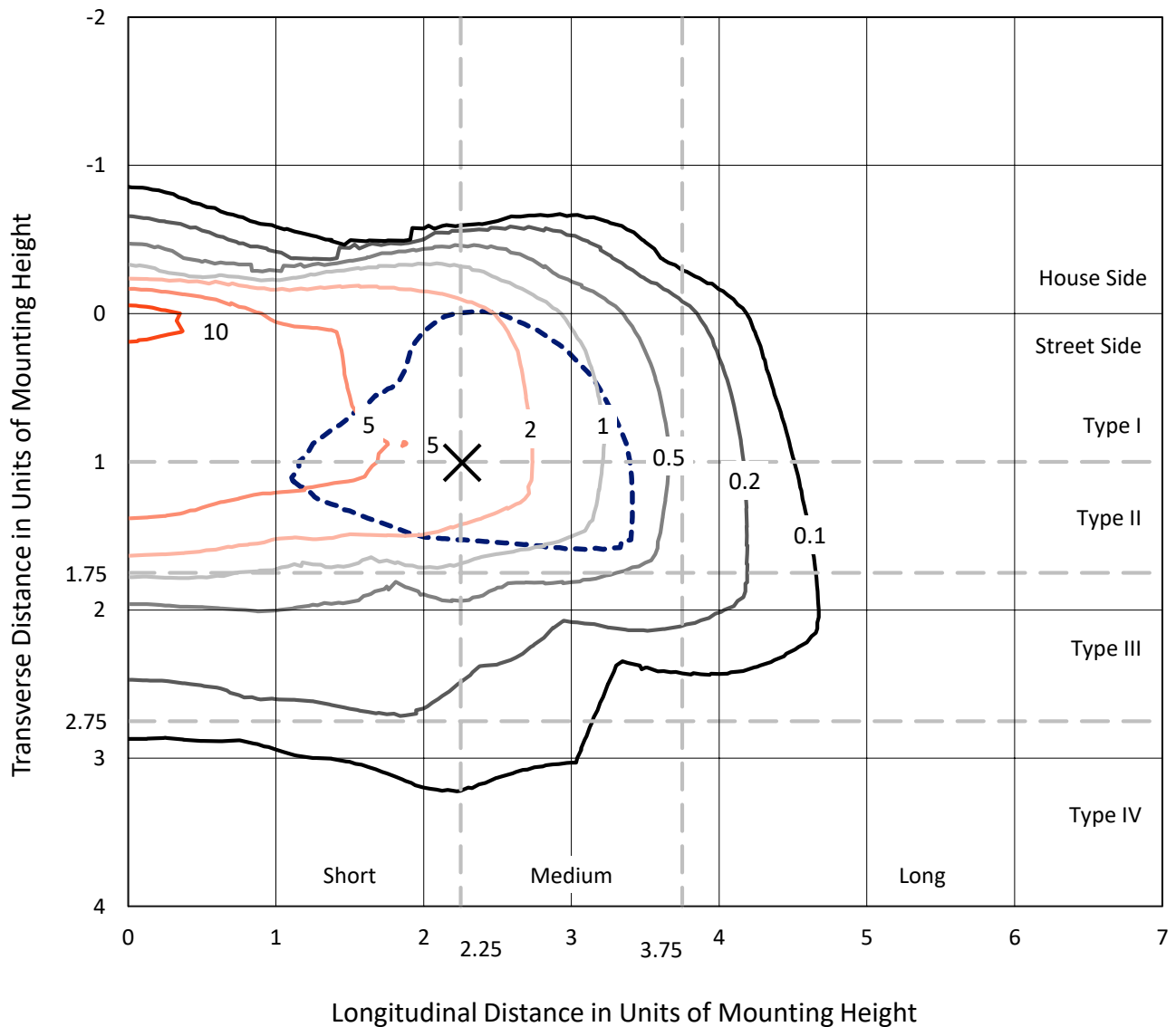


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

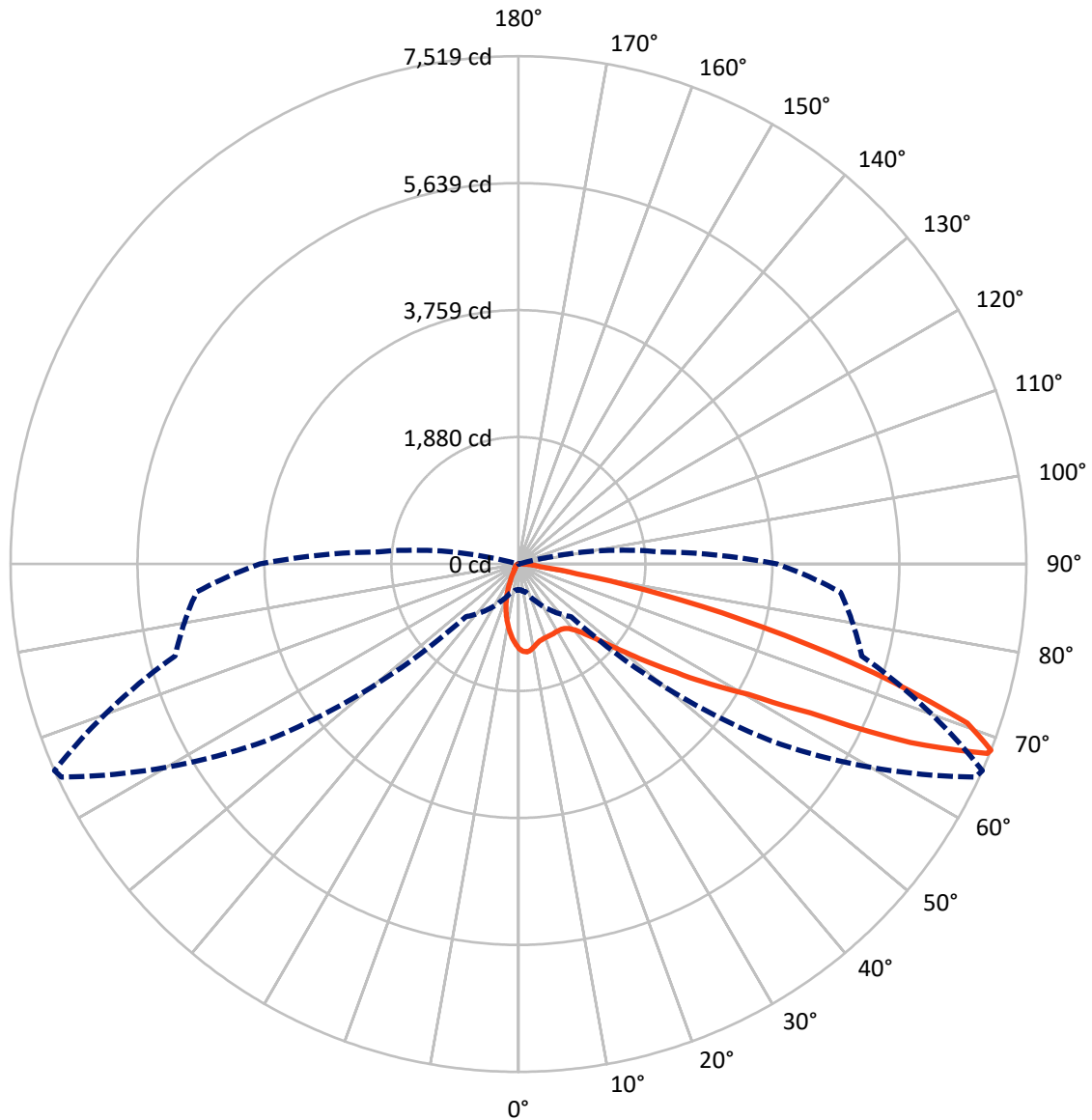


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	570.4	0.0	570.4
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	5061.3	0.0	5061.3
	% Fixture	89.9	0.0	89.9
Total	Lumens	5631.7	0.0	5631.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.8
10°-20°	221.3	3.9
20°-30°	320.7	5.7
30°-40°	490.9	8.7
40°-50°	839.7	14.9
50°-60°	1313.5	23.3
60°-70°	1512.5	26.9
70°-80°	756.9	13.4
80°-90°	73.3	1.3
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°	5631.7	100.0
0°-180°	5631.7	100.0

Coefficient of Utilization



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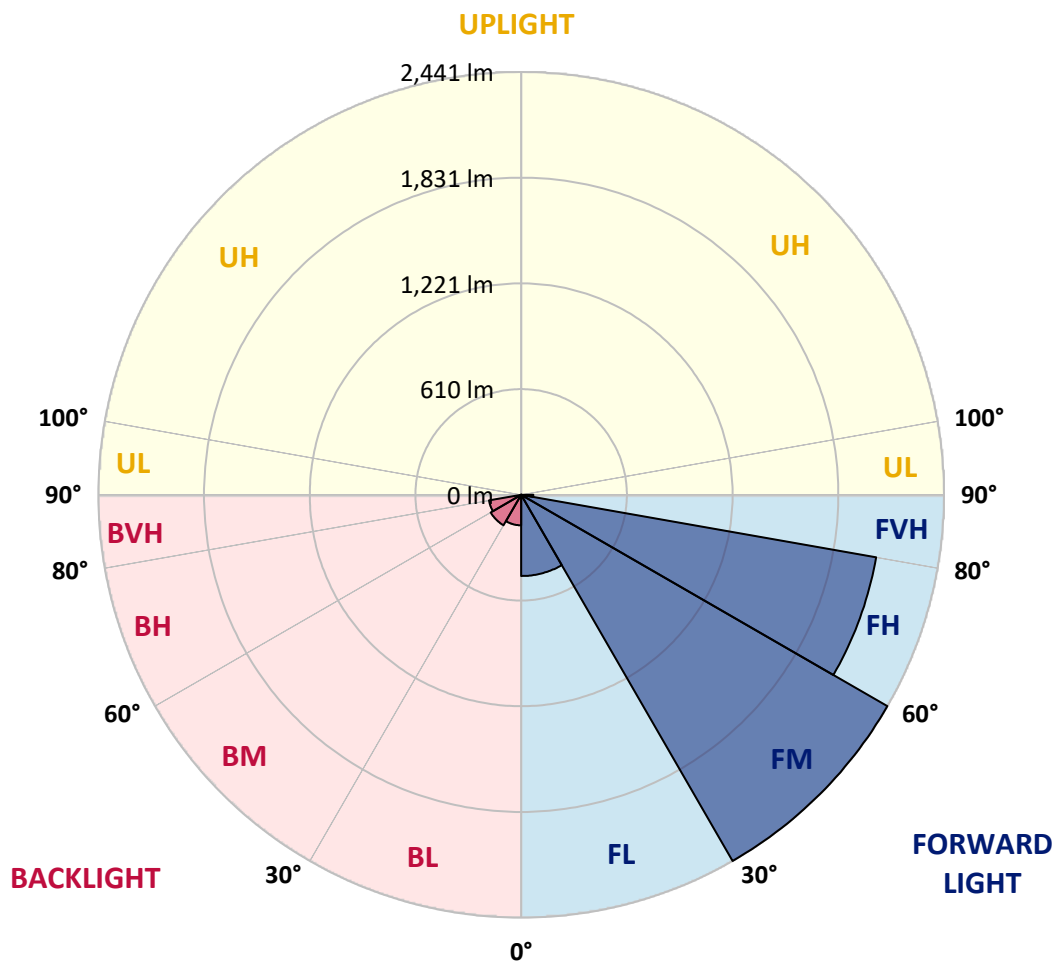
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.8	8.3			
FM	(30°-60°)	2441.1	43.3			
FH	(60°-80°)	2080.9	37.0			G2/5000
FVH	(80°-90°)	70.5	1.3			G1/100
BL	(0°-30°)	176.1	3.1	B1/500		
BM	(30°-60°)	203.1	3.6	B0/220		
BH	(60°-80°)	188.5	3.3	B1/500		G1/500
BVH	(80°-90°)	2.8	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8
2.5°	1319.7	1320.6	1320.1	1321.4	1320.6	1314.0	1306.9	1291.9	1293.2	1273.6	1252.1
5°	1226.8	1234.5	1241.8	1249.5	1267.5	1283.5	1302.5	1306.9	1306.9	1290.1	1258.3
7.5°	1132.3	1132.7	1141.0	1151.3	1175.5	1204.7	1249.0	1288.8	1289.6	1294.1	1259.2
10°	1061.1	1063.2	1069.1	1080.0	1104.3	1133.1	1182.6	1245.1	1249.8	1282.6	1250.4
12.5°	1005.8	1008.4	1014.6	1027.4	1049.6	1079.1	1131.3	1202.6	1209.2	1271.6	1247.7
15°	963.3	966.8	971.7	984.5	1008.4	1039.9	1096.9	1174.3	1182.2	1267.1	1256.0
17.5°	945.6	945.6	945.2	954.1	978.0	1009.8	1069.4	1159.3	1169.4	1270.7	1270.2
20°	953.2	951.8	942.6	940.3	955.0	986.8	1047.9	1149.6	1161.0	1277.2	1287.5
22.5°	992.9	990.3	969.5	952.4	947.9	969.1	1033.2	1142.9	1156.6	1291.0	1310.4
25°	1077.3	1069.4	1040.7	1001.8	966.8	964.7	1023.0	1139.3	1154.0	1306.9	1335.6
27.5°	1187.1	1184.9	1139.0	1086.7	1019.4	979.2	1019.9	1136.6	1151.3	1318.4	1355.9
30°	1323.3	1324.1	1271.0	1203.0	1101.3	1020.4	1029.6	1135.4	1150.4	1319.3	1364.7
32.5°	1463.8	1464.6	1420.5	1347.5	1213.2	1091.1	1057.0	1141.6	1155.2	1315.7	1364.3
35°	1599.2	1600.4	1573.9	1515.1	1362.5	1189.3	1108.8	1162.8	1172.5	1318.0	1363.4
37.5°	1770.2	1775.5	1742.8	1687.9	1550.0	1333.4	1193.3	1205.6	1213.6	1336.0	1370.0
40°	2062.0	2055.0	1961.2	1868.4	1753.4	1509.0	1315.3	1279.5	1282.2	1382.9	1395.2
42.5°	2402.0	2393.2	2232.6	2072.6	1962.4	1720.7	1471.3	1392.6	1392.3	1461.6	1450.1
45°	2694.6	2689.3	2520.5	2306.8	2194.2	1954.5	1663.7	1555.8	1550.5	1597.7	1550.0
47.5°	2902.5	2898.0	2770.3	2556.2	2462.1	2211.8	1903.7	1778.1	1767.1	1775.9	1712.3
50°	2922.7	2918.0	2873.3	2735.8	2775.1	2589.5	2200.4	2069.4	2055.3	2041.7	1957.6
52.5°	2732.6	2732.3	2755.6	2746.7	2994.4	3075.3	2564.2	2429.8	2412.9	2378.2	2294.5
55°	2344.0	2341.8	2430.8	2559.8	2989.5	3576.6	3119.1	2858.6	2836.6	2766.7	2657.0
57.5°	1712.7	1701.2	1886.9	2160.6	2779.5	3795.9	4000.2	3391.5	3354.7	3133.2	2964.3
60°	945.6	950.0	1188.8	1512.8	2282.1	3752.6	4811.1	4012.5	3916.3	3449.3	3279.2
62.5°	530.1	541.0	718.9	983.3	1455.0	3401.2	5246.0	5081.6	4849.5	3818.1	3677.0
65°	401.1	407.7	496.9	758.7	917.3	2376.7	5315.5	6576.3	6376.1	4376.8	4310.5
67.5°	377.6	382.9	426.6	629.2	835.6	1232.6	4792.8	7460.6	7485.8	5139.1	4801.4
68°	380.3	386.8	430.6	605.3	834.3	1102.6	4570.0	7464.9	7518.5	5261.9	4784.6
70°	349.4	351.1	455.4	593.8	808.7	868.8	3306.1	6953.5	7049.4	5408.2	4343.2
72.5°	133.5	133.9	204.3	514.2	847.1	873.6	1665.4	5495.8	5500.7	4706.7	3386.2
75°	69.3	58.4	64.0	160.9	809.1	851.6	835.6	3752.6	3729.1	3183.1	2074.8
77.5°	47.7	40.7	42.8	55.8	336.4	851.1	603.5	2157.9	2153.1	1354.1	592.1
80°	26.9	23.4	25.6	46.8	118.0	799.0	562.3	927.5	874.1	237.8	95.8
82.5°	13.7	11.5	13.7	39.3	73.4	502.7	546.9	363.9	324.1	56.7	62.3
85°	3.6	3.6	6.6	27.4	45.5	164.8	490.3	262.7	236.1	24.8	44.1
87.5°	0.9	0.4	2.6	10.2	16.3	35.8	271.8	146.3	126.0	12.8	25.6
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°	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8	1254.8
2.5°	1243.3	1230.8	1206.6	1179.0	1159.6	1138.4	1126.0	1111.1	1099.5	1089.4	1096.9
5°	1238.9	1214.9	1161.0	1100.5	1049.6	1000.9	964.7	930.1	904.1	887.7	894.4
7.5°	1227.3	1192.0	1104.3	1009.8	926.6	848.4	784.7	727.6	683.5	659.6	667.1
10°	1207.9	1157.8	1040.2	908.9	792.8	682.2	587.5	502.7	438.6	408.5	415.6
12.5°	1193.7	1127.8	973.9	811.7	658.7	501.9	376.2	279.0	229.0	199.0	201.6
15°	1187.5	1104.3	912.0	709.1	512.5	322.3	203.3	147.2	130.0	123.7	124.2
17.5°	1188.4	1085.8	853.3	602.7	364.7	185.2	124.7	112.3	109.7	108.3	108.3
20°	1190.7	1067.2	792.2	491.6	233.4	119.4	103.9	99.9	98.5	96.7	97.2
22.5°	1197.3	1053.2	730.9	380.3	143.6	97.2	91.9	88.5	86.1	83.5	84.0
25°	1207.4	1042.6	670.2	273.7	101.2	84.9	79.9	75.2	71.1	68.1	68.5
27.5°	1213.6	1027.4	605.6	186.6	84.0	74.3	67.6	61.1	56.7	54.0	53.4
30°	1209.2	1003.1	532.2	122.4	74.3	64.0	56.1	48.6	44.1	42.0	42.0
32.5°	1197.3	971.7	451.4	89.3	65.8	55.2	45.5	38.8	35.8	34.5	34.9
35°	1183.4	939.1	365.3	75.5	59.3	46.8	37.1	31.8	30.5	30.1	30.1
37.5°	1176.1	910.7	282.4	68.5	53.1	38.8	30.5	27.4	26.1	26.1	26.1
40°	1184.4	889.1	209.1	63.2	46.8	32.2	25.6	23.4	22.9	22.9	22.9
42.5°	1220.2	881.5	153.0	58.7	40.7	26.9	22.1	20.3	19.9	20.3	20.3
45°	1290.1	897.9	115.8	54.3	34.9	22.1	19.0	17.6	17.6	18.1	18.1
47.5°	1408.5	939.9	95.0	49.9	29.1	18.5	16.3	15.5	15.5	15.9	15.9
50°	1592.4	1017.7	85.2	45.0	24.3	15.9	13.7	13.2	13.2	13.7	14.2
52.5°	1871.9	1165.8	80.5	40.2	19.9	13.2	11.5	11.0	11.5	11.9	11.9
55°	2182.7	1355.5	74.6	35.4	16.8	11.0	9.3	9.3	9.7	10.6	10.6
57.5°	2472.2	1538.5	69.3	29.1	14.6	8.9	7.5	7.5	8.4	9.3	9.3
60°	2778.2	1718.0	62.3	23.4	12.3	7.0	6.2	6.2	7.5	8.4	8.9
62.5°	3156.3	1926.8	53.1	18.5	9.7	5.3	4.4	5.7	7.0	8.4	8.4
65°	3702.6	2186.3	41.5	14.6	7.5	4.0	3.6	5.3	6.6	7.9	8.4
67.5°	3901.2	2153.1	31.4	11.9	5.7	3.1	3.1	4.9	6.6	7.9	7.9
68°	3828.7	2080.6	30.1	11.5	5.3	3.1	3.1	4.9	6.6	7.9	7.9
70°	3336.1	1700.9	24.8	8.9	4.4	2.6	2.6	4.4	6.6	7.5	7.9
72.5°	2497.8	1130.0	21.2	5.7	4.0	2.6	2.2	4.4	6.2	7.5	7.5
75°	1432.8	469.0	18.1	4.4	3.6	2.2	2.2	4.0	6.2	7.5	7.5
77.5°	405.0	109.7	14.6	3.6	3.1	2.2	1.7	4.0	5.7	7.0	7.0
80°	74.3	32.7	11.5	3.1	2.6	2.2	1.7	4.0	5.7	7.0	7.0
82.5°	49.0	15.5	8.4	3.1	2.6	2.2	1.7	3.6	5.3	6.6	6.6
85°	36.7	11.0	5.3	3.1	2.6	2.2	1.7	3.6	5.3	6.6	6.6
87.5°	20.3	4.9	4.0	3.6	3.1	2.2	1.7	3.1	4.9	6.2	6.2
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)