

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: P271306

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271306
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-SL2-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 6767.2 lumens
Efficiency: N/A
Efficacy: 102.5 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

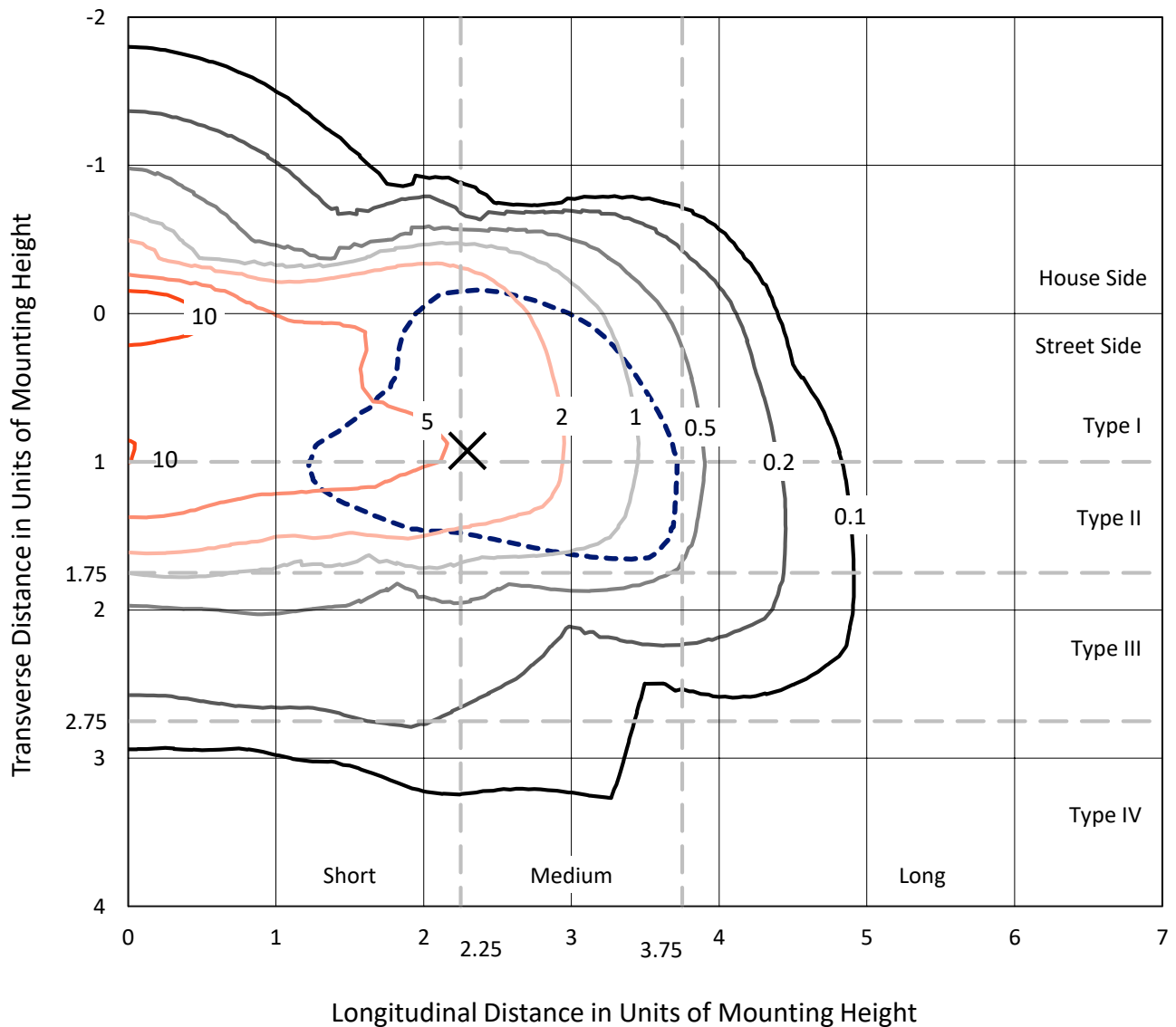


REPORT NUMBER: P271306

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

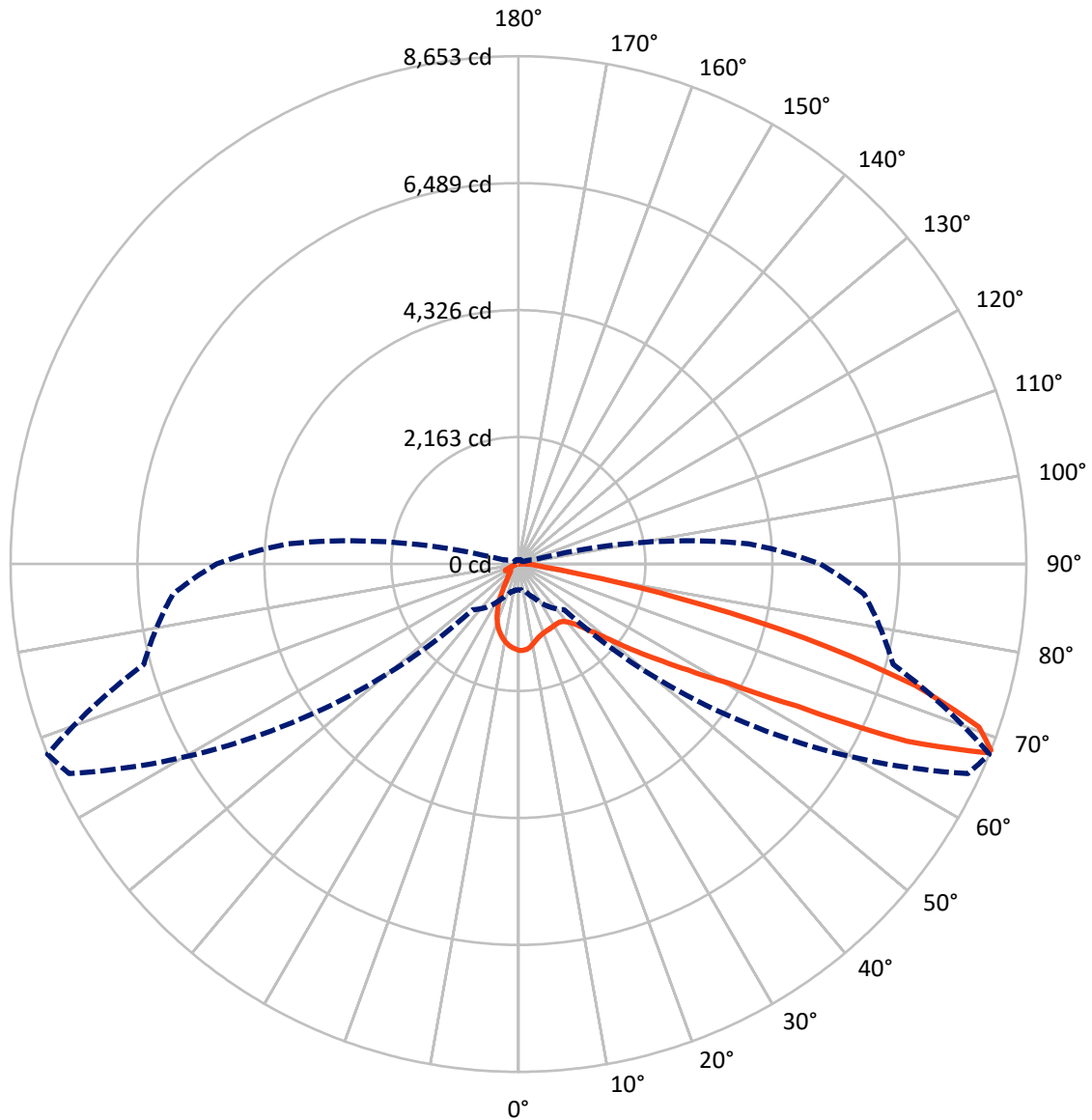


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P271306

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P271306

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.1	0.0	1107.1
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	5660.1	0.0	5660.1
	% Fixture	83.6	0.0	83.6
Total	Lumens	6767.2	0.0	6767.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.9
10°-20°	292.6	4.3
20°-30°	395.8	5.8
30°-40°	558.0	8.2
40°-50°	917.6	13.6
50°-60°	1422.4	21.0
60°-70°	1844.2	27.3
70°-80°	1058.3	15.6
80°-90°	152.2	2.2
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°	6767.2	100.0
0°-180°	6767.2	100.0



REPORT NUMBER: P271306

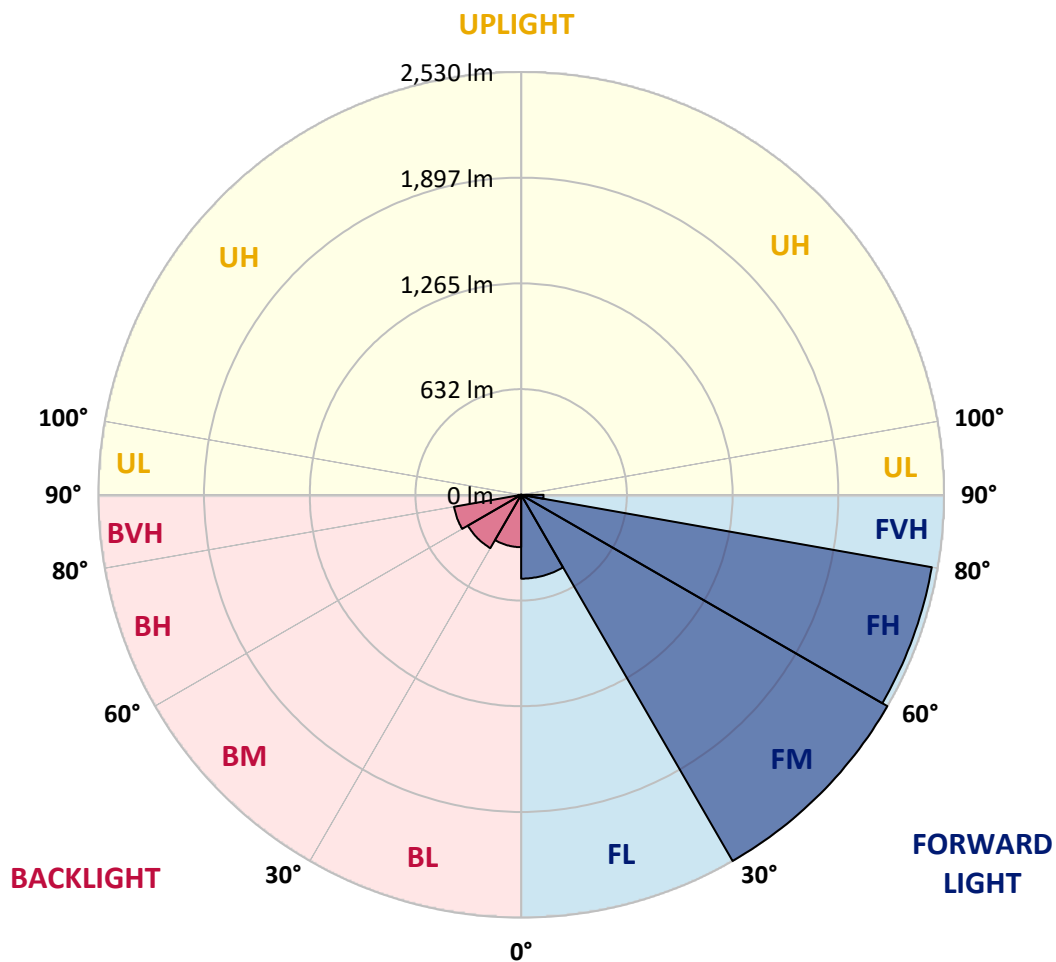
CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.6	7.4			
FM	(30°-60°)	2529.7	37.4			
FH	(60°-80°)	2494.7	36.9			G2/5000
FVH	(80°-90°)	134.1	2.0			G2/225
BL	(0°-30°)	313.0	4.6	B1/500		
BM	(30°-60°)	368.2	5.4	B1/1000		
BH	(60°-80°)	407.7	6.0	B1/500		G1/500
BVH	(80°-90°)	18.1	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





REPORT NUMBER: P271306

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1433.2	1444.7	1444.7	1453.1	1460.6	1466.8	1472.1	1472.1	1472.1	1468.5	1465.5
5°	1282.4	1298.0	1300.0	1321.3	1349.2	1383.2	1421.2	1454.8	1461.5	1473.8	1478.7
7.5°	1177.7	1182.4	1191.0	1205.4	1233.8	1275.9	1335.5	1410.6	1428.8	1467.7	1488.0
10°	1103.4	1107.4	1114.4	1129.0	1154.7	1192.7	1251.5	1349.2	1379.3	1448.2	1488.4
12.5°	1049.0	1052.2	1058.7	1071.9	1098.1	1132.1	1192.2	1293.9	1331.1	1428.8	1494.6
15°	1006.6	1011.9	1017.2	1029.9	1056.5	1089.3	1150.2	1253.7	1293.9	1413.3	1506.1
17.5°	989.8	992.4	993.3	1000.0	1023.8	1056.9	1118.0	1225.4	1267.0	1400.8	1514.9
20°	1000.4	1000.8	992.0	987.5	1001.3	1031.8	1091.0	1204.2	1246.6	1389.9	1518.5
22.5°	1046.9	1046.9	1023.8	1004.3	995.1	1014.0	1072.8	1189.5	1235.6	1381.5	1518.5
25°	1135.2	1131.2	1095.5	1056.9	1015.9	1007.9	1061.3	1180.4	1227.2	1377.0	1512.7
27.5°	1251.5	1247.9	1202.4	1145.3	1071.0	1021.2	1057.5	1172.7	1218.8	1370.4	1500.3
30°	1392.9	1389.9	1338.1	1263.5	1153.9	1063.1	1066.6	1167.4	1212.2	1359.3	1479.6
32.5°	1533.9	1532.1	1491.0	1414.7	1267.9	1134.3	1091.0	1166.5	1208.6	1346.1	1454.4
35°	1675.9	1675.9	1650.6	1586.0	1421.2	1241.3	1141.8	1183.0	1215.2	1339.1	1432.7
37.5°	1885.5	1877.0	1830.1	1763.5	1614.4	1380.2	1224.1	1217.5	1240.9	1351.0	1425.6
40°	2209.9	2185.5	2068.3	1956.1	1825.3	1557.8	1344.4	1284.1	1298.3	1391.7	1442.5
42.5°	2549.4	2510.9	2355.7	2176.2	2043.3	1777.0	1502.1	1392.6	1392.1	1470.3	1495.9
45°	2840.7	2820.8	2652.9	2425.2	2292.0	2023.7	1701.5	1553.3	1537.4	1592.2	1599.0
47.5°	3010.0	2996.7	2895.4	2688.5	2587.4	2315.1	1954.4	1776.7	1746.6	1779.4	1769.1
50°	2963.1	2975.9	2946.8	2841.1	2904.8	2724.4	2276.7	2082.5	2025.5	2058.2	2033.6
52.5°	2716.5	2751.0	2777.0	2797.3	3087.4	3272.2	2681.5	2464.5	2417.2	2411.4	2387.5
55°	2272.3	2327.0	2409.3	2558.6	3038.2	3711.9	3388.9	2926.5	2857.5	2821.2	2830.5
57.5°	1546.3	1629.4	1806.8	2091.0	2783.2	3899.5	4434.8	3523.2	3406.6	3277.5	3307.5
60°	851.9	921.2	1132.1	1418.6	2201.0	3871.5	5361.8	4493.1	4125.7	3783.7	3845.6
62.5°	551.3	566.3	723.2	969.0	1351.0	3418.1	5876.7	6114.1	5335.8	4451.1	4538.1
65°	443.0	453.6	530.4	781.5	941.2	2198.8	5899.8	7795.8	7282.5	5358.2	5360.8
67.5°	432.8	437.7	482.3	657.3	882.9	1197.1	5099.6	8458.9	8577.7	6428.9	5911.2
68°	438.9	444.8	489.8	637.0	882.3	1103.4	4713.2	8448.6	8652.5	6607.9	5911.2
70°	387.3	394.4	499.5	659.1	844.8	948.7	3227.5	7999.9	8327.9	7019.4	5608.8
72.5°	202.5	196.6	247.2	520.3	950.9	988.5	1705.1	6683.5	7066.3	6500.9	4845.8
75°	157.8	143.6	138.3	205.5	836.4	1025.1	990.2	4750.3	5039.5	4686.3	3239.0
77.5°	148.5	131.3	121.1	121.6	368.2	1066.6	801.0	2795.5	2795.5	2235.5	1033.5
80°	119.4	103.5	96.7	110.5	177.8	983.1	836.0	1274.1	1086.6	577.8	284.8
82.5°	78.7	70.2	70.7	89.7	134.8	656.4	968.2	629.1	472.6	255.9	167.5
85°	49.9	42.8	47.7	62.8	100.8	292.7	958.4	437.1	313.0	143.6	83.5
87.5°	25.2	19.5	23.9	32.7	61.4	84.0	789.2	390.4	232.1	59.6	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271306

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1465.5	1455.8	1450.9	1442.9	1433.2	1423.5	1416.7	1413.8	1412.0	1412.9	1412.3
5°	1476.1	1463.2	1442.5	1412.9	1382.3	1350.1	1325.3	1306.2	1294.4	1290.9	1290.0
7.5°	1484.0	1465.5	1426.5	1372.6	1320.5	1263.8	1215.6	1177.1	1151.1	1139.2	1138.7
10°	1482.7	1458.8	1397.4	1317.8	1241.3	1158.3	1082.5	1018.0	971.2	948.7	947.8
12.5°	1484.0	1451.3	1361.6	1253.7	1144.0	1025.1	912.9	812.4	742.7	709.5	708.1
15°	1489.3	1443.3	1324.9	1182.1	1030.4	862.5	701.9	576.1	512.4	490.7	490.7
17.5°	1488.9	1430.1	1282.4	1098.9	895.6	670.7	479.2	401.5	395.3	415.0	418.3
20°	1480.0	1408.8	1227.7	1000.4	737.4	464.2	324.8	313.9	363.4	418.3	424.4
22.5°	1466.4	1381.5	1164.5	885.9	553.0	302.4	250.6	267.4	334.7	402.7	412.4
25°	1447.3	1348.3	1091.9	752.8	367.8	217.5	209.0	229.8	277.1	322.8	329.8
27.5°	1419.4	1306.2	1012.7	608.7	234.7	179.0	182.1	196.6	217.0	236.6	240.4
30°	1384.6	1257.2	926.5	449.2	178.1	160.0	165.4	174.2	183.1	195.4	198.0
32.5°	1349.2	1207.2	836.9	308.6	155.5	149.8	155.1	160.0	167.5	176.0	177.8
35°	1317.4	1160.9	744.4	215.2	145.9	143.2	145.9	148.9	156.5	164.8	165.7
37.5°	1294.4	1122.8	648.0	170.1	140.1	137.5	138.8	140.1	148.9	161.3	162.7
40°	1291.3	1097.5	550.4	152.9	135.7	132.2	131.3	132.2	143.6	157.8	159.1
42.5°	1321.3	1098.9	454.9	145.9	132.2	128.2	124.7	126.4	136.6	147.6	148.5
45°	1392.6	1129.9	372.2	142.8	129.0	126.0	120.7	121.6	126.4	132.2	133.0
47.5°	1518.0	1197.5	308.9	141.0	126.4	123.7	117.1	114.5	115.0	118.0	118.0
50°	1718.7	1310.6	270.5	139.2	124.2	119.4	111.8	106.4	105.2	107.0	107.3
52.5°	2018.0	1504.8	252.0	135.7	120.3	113.6	105.2	99.9	97.6	99.4	99.4
55°	2422.5	1814.7	243.1	130.9	115.4	106.4	99.1	94.6	92.9	94.1	94.1
57.5°	2883.6	2217.3	258.2	124.2	109.1	99.1	93.8	90.5	89.3	90.5	91.1
60°	3431.3	2744.3	361.6	115.8	102.5	92.3	89.3	87.6	86.6	87.9	87.9
62.5°	4159.3	3445.4	559.6	109.1	95.5	86.1	85.2	84.4	83.5	84.9	84.9
65°	4945.3	4083.3	576.1	105.2	89.3	80.8	81.3	81.3	80.5	81.7	81.7
67.5°	5195.5	4028.1	321.9	100.3	81.7	75.5	77.3	77.3	77.0	78.2	77.9
68°	5142.4	3940.5	280.4	99.1	80.5	74.3	76.0	76.4	76.0	77.3	77.0
70°	4747.4	3459.6	184.3	91.4	74.6	69.9	72.6	72.9	72.6	74.3	73.8
72.5°	3918.9	2594.9	136.2	79.9	67.6	64.0	66.7	67.3	67.6	69.3	69.0
75°	2488.8	1433.2	107.3	68.1	60.5	57.5	60.1	61.4	62.3	64.9	63.7
77.5°	681.6	435.0	87.0	57.9	52.1	50.8	52.6	54.3	55.2	58.4	56.1
80°	238.7	192.2	72.6	49.0	43.3	42.8	44.6	46.4	47.3	49.9	47.3
82.5°	144.9	125.6	57.9	38.4	34.0	33.5	35.8	37.5	38.4	38.4	36.7
85°	75.5	66.4	42.4	26.9	23.4	22.1	26.1	28.2	28.7	28.2	26.9
87.5°	42.4	37.5	22.5	12.8	10.6	11.0	13.7	16.8	18.1	17.6	16.8
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)