

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: P199179

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199179
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-SL2-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 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: 6356 lumens
Efficiency: N/A
Efficacy: 96.3 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 (A_{in}): 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

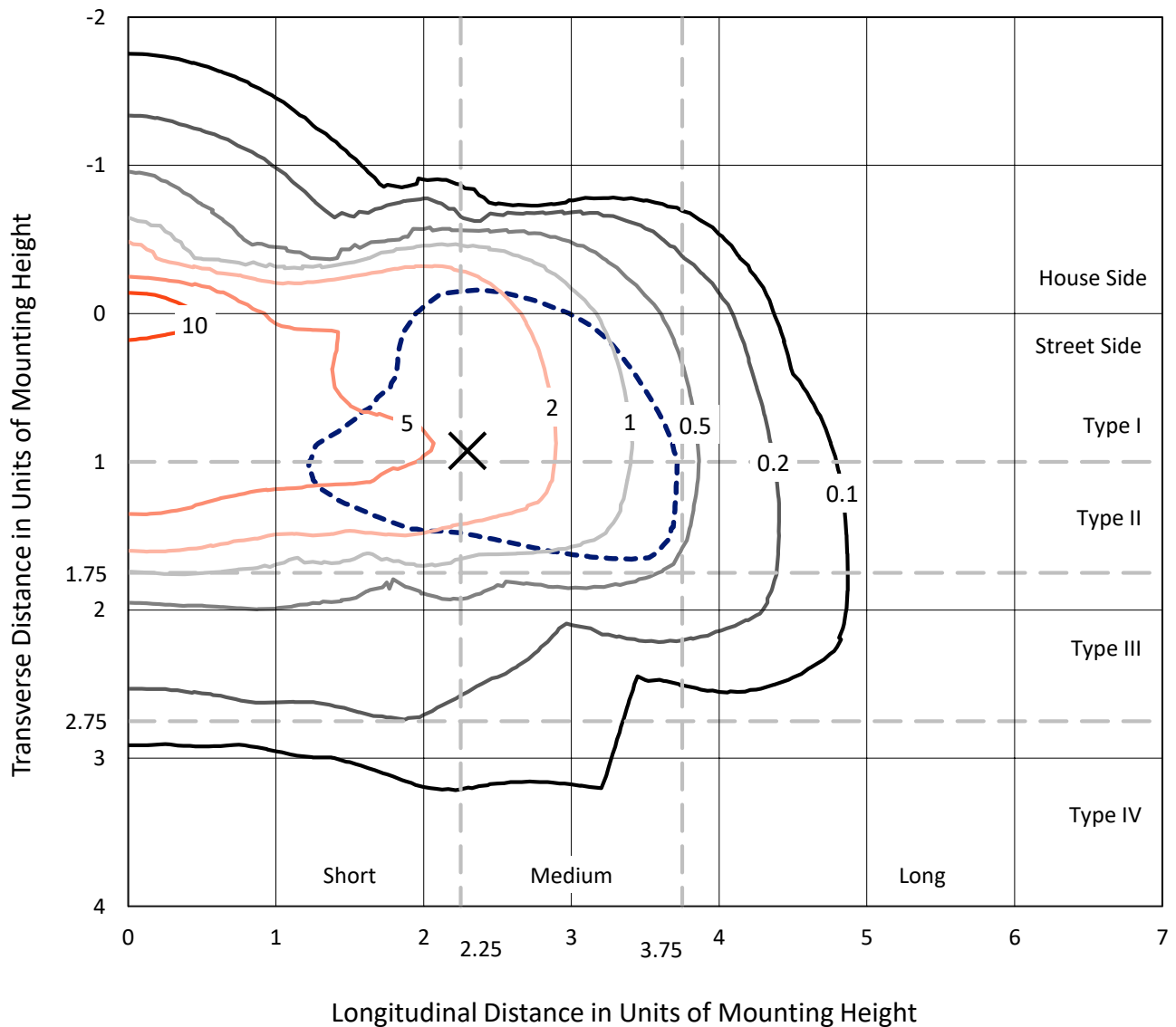


REPORT NUMBER: P199179

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

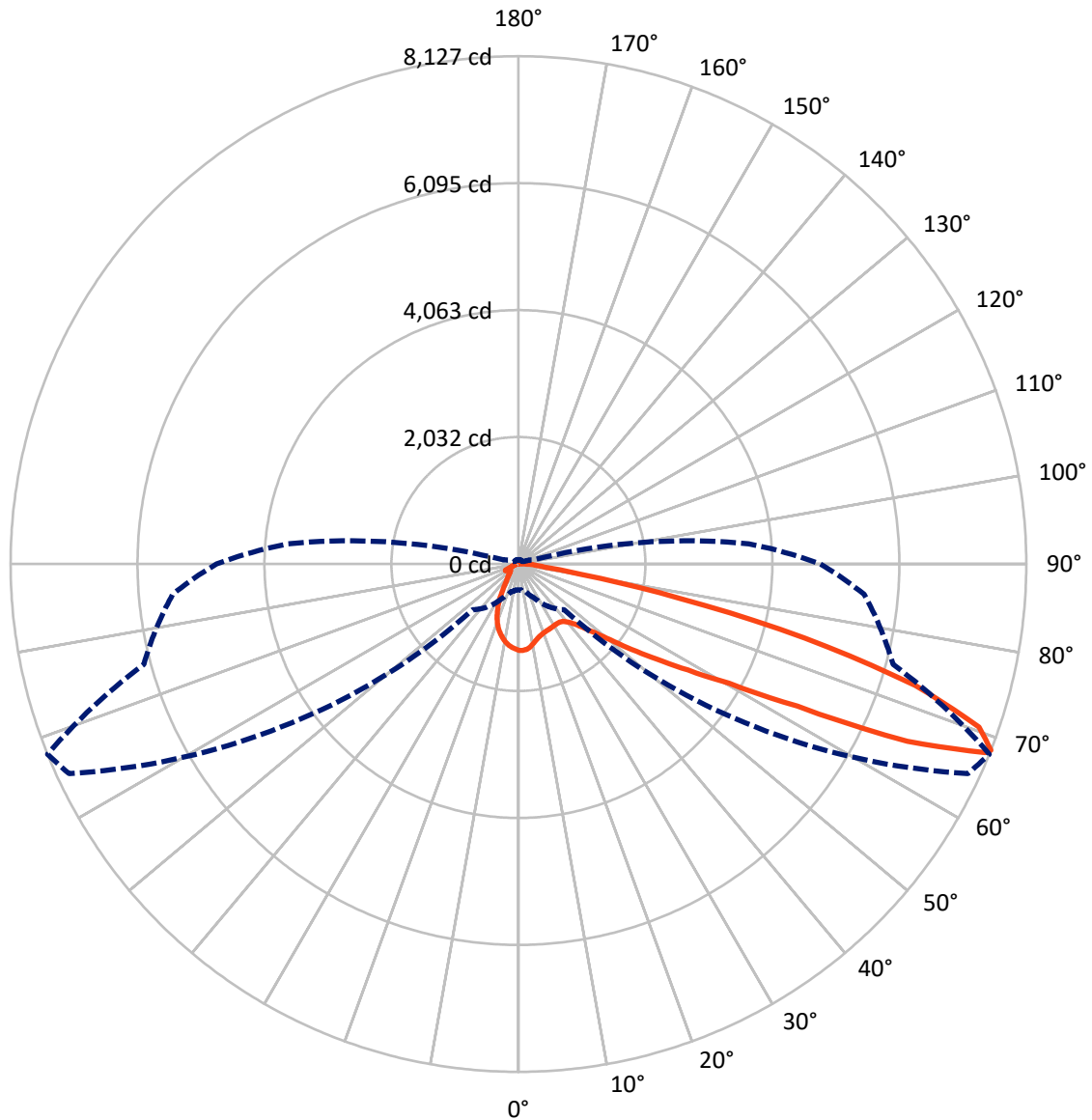


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P199179

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-8030-600

Luminous Intensity Polar Plot



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



REPORT NUMBER: P199179

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.9	0.0	1039.9
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	5316.1	0.0	5316.1
	% Fixture	83.6	0.0	83.6
Total	Lumens	6356.0	0.0	6356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.9
10°-20°	274.8	4.3
20°-30°	371.7	5.8
30°-40°	524.1	8.2
40°-50°	861.8	13.6
50°-60°	1335.9	21.0
60°-70°	1732.1	27.3
70°-80°	994.0	15.6
80°-90°	143.0	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°	6356.0	100.0
0°-180°	6356.0	100.0

Coefficient of Utilization



REPORT NUMBER: P199179

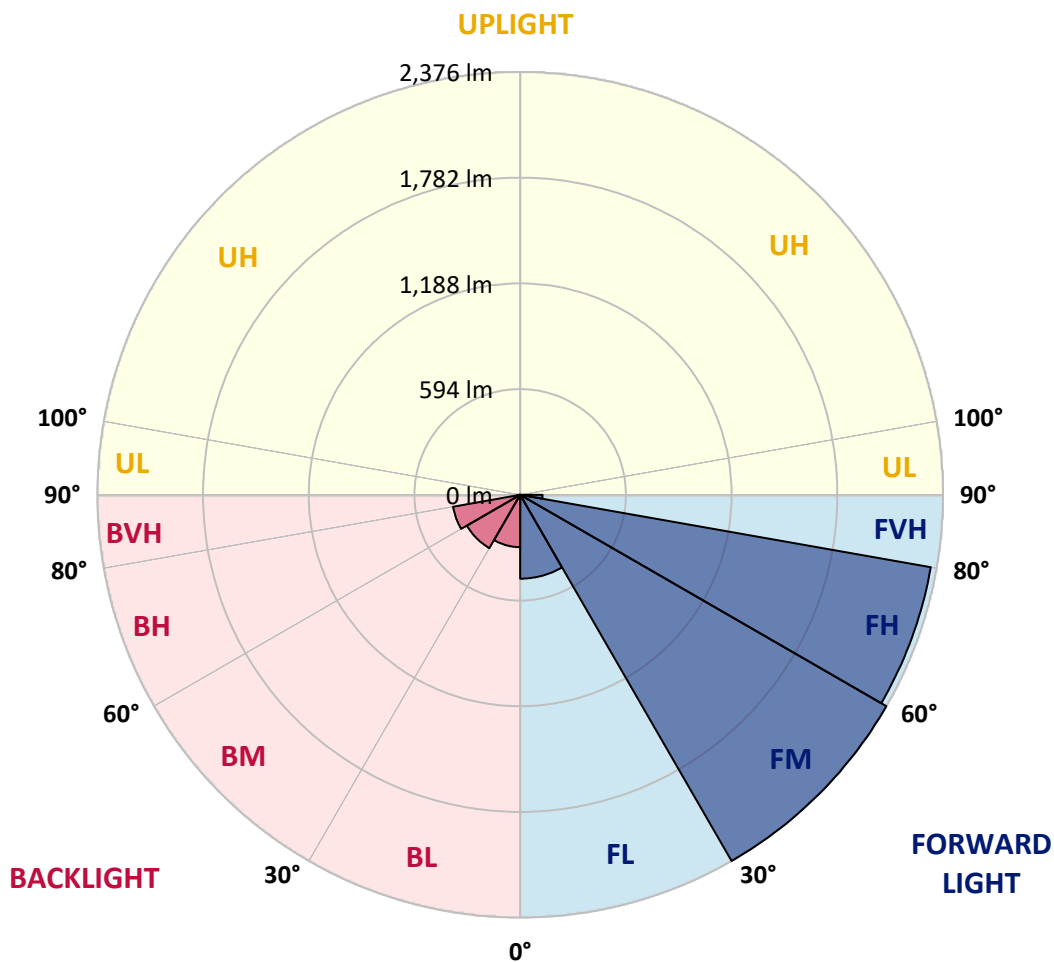
CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.1	7.4			
FM (30°-60°)	2376.0	37.4			
FH (60°-80°)	2343.1	36.9			G2/5000
FVH (80°-90°)	126.0	2.0			G2/225
BL (0°-30°)	294.0	4.6	B1/500		
BM (30°-60°)	345.9	5.4	B1/1000		
BH (60°-80°)	383.0	6.0	B1/500		G1/500
BVH (80°-90°)	17.0	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: P199179

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1346.1	1356.9	1356.9	1364.7	1371.8	1377.6	1382.6	1382.6	1382.6	1379.3	1376.4
5°	1204.5	1219.0	1221.1	1241.0	1267.2	1299.1	1334.8	1366.4	1372.6	1384.3	1388.8
7.5°	1106.1	1110.6	1118.5	1132.2	1158.8	1198.2	1254.3	1324.9	1341.9	1378.4	1397.5
10°	1036.3	1040.1	1046.7	1060.4	1084.5	1120.2	1175.4	1267.2	1295.4	1360.2	1398.0
12.5°	985.3	988.2	994.4	1006.8	1031.3	1063.3	1119.8	1215.3	1250.1	1341.9	1403.8
15°	945.4	950.4	955.4	967.4	992.3	1023.0	1080.3	1177.5	1215.3	1327.4	1414.6
17.5°	929.6	932.1	932.9	939.2	961.6	992.7	1050.0	1150.9	1189.9	1315.7	1422.9
20°	939.6	940.0	931.7	927.5	940.4	969.1	1024.7	1131.0	1170.8	1305.4	1426.2
22.5°	983.2	983.2	961.6	943.3	934.6	952.5	1007.7	1117.3	1160.5	1297.5	1426.2
25°	1066.2	1062.5	1028.8	992.7	954.1	946.6	996.9	1108.6	1152.6	1293.3	1420.8
27.5°	1175.4	1172.1	1129.3	1075.8	1006.0	959.1	993.1	1101.5	1144.7	1287.1	1409.2
30°	1308.3	1305.4	1256.8	1186.6	1083.7	998.5	1001.9	1096.5	1138.5	1276.7	1389.7
32.5°	1440.7	1439.1	1400.4	1328.6	1190.8	1065.4	1024.7	1095.7	1135.1	1264.3	1366.0
35°	1574.0	1574.0	1550.3	1489.7	1334.8	1165.9	1072.4	1111.1	1141.4	1257.6	1345.6
37.5°	1770.8	1762.9	1718.9	1656.2	1516.3	1296.2	1149.7	1143.4	1165.4	1268.8	1339.0
40°	2075.6	2052.7	1942.7	1837.2	1714.3	1463.1	1262.6	1206.1	1219.4	1307.0	1354.8
42.5°	2394.4	2358.3	2212.6	2044.0	1919.0	1669.1	1410.8	1307.9	1307.4	1380.9	1405.0
45°	2668.0	2649.3	2491.6	2277.8	2152.8	1900.8	1598.1	1459.0	1444.0	1495.5	1501.8
47.5°	2827.1	2814.6	2719.5	2525.2	2430.1	2174.4	1835.6	1668.7	1640.4	1671.2	1661.6
50°	2783.0	2795.1	2767.7	2668.4	2728.2	2558.8	2138.2	1956.0	1902.4	1933.1	1909.9
52.5°	2551.4	2583.7	2608.2	2627.3	2899.7	3073.3	2518.6	2314.7	2270.3	2264.9	2242.5
55°	2134.1	2185.6	2262.8	2403.1	2853.6	3486.4	3182.9	2748.6	2683.8	2649.8	2658.5
57.5°	1452.3	1530.4	1696.9	1963.9	2614.1	3662.4	4165.2	3309.1	3199.5	3078.2	3106.5
60°	800.1	865.3	1063.3	1332.4	2067.2	3636.3	5035.9	4220.0	3875.0	3553.6	3611.8
62.5°	517.7	531.9	679.3	910.1	1268.8	3210.3	5519.6	5742.5	5011.4	4180.6	4262.4
65°	416.0	426.0	498.2	734.1	883.9	2065.2	5541.2	7321.9	6839.9	5032.6	5035.0
67.5°	406.5	411.0	453.0	617.4	829.1	1124.3	4789.7	7944.7	8056.4	6038.2	5552.0
68°	412.3	417.7	460.0	598.3	828.7	1036.3	4426.8	7935.2	8126.6	6206.3	5552.0
70°	363.7	370.4	469.2	619.1	793.4	891.0	3031.3	7513.8	7821.8	6592.9	5268.0
72.5°	190.2	184.8	232.1	488.7	893.1	928.4	1601.4	6277.3	6636.9	6105.8	4551.3
75°	148.2	134.9	130.0	193.1	785.5	962.8	930.0	4461.7	4733.2	4401.5	3042.1
77.5°	139.5	123.3	113.8	114.2	345.9	1001.9	752.3	2625.7	2625.7	2099.6	970.7
80°	112.1	97.2	90.9	103.8	166.9	923.4	785.1	1196.6	1020.5	542.7	267.4
82.5°	73.9	66.0	66.4	84.3	126.6	616.6	909.3	590.8	443.8	240.4	157.4
85°	46.9	40.3	44.8	59.0	94.7	274.9	900.1	410.6	294.0	134.9	78.5
87.5°	23.7	18.3	22.4	30.7	57.7	78.9	741.1	366.6	218.0	56.1	42.8
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: P199179

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1376.4	1367.2	1362.7	1355.2	1346.1	1336.9	1330.7	1327.8	1326.1	1327.0	1326.5
5°	1386.3	1374.3	1354.8	1327.0	1298.3	1268.0	1244.7	1226.9	1215.7	1212.4	1211.5
7.5°	1393.8	1376.4	1339.8	1289.2	1240.2	1187.0	1141.8	1105.7	1081.2	1070.0	1069.5
10°	1392.6	1370.1	1312.4	1237.7	1165.9	1087.8	1016.8	956.2	912.2	891.0	890.2
12.5°	1393.8	1363.1	1278.8	1177.5	1074.5	962.8	857.4	763.1	697.5	666.4	665.1
15°	1398.8	1355.6	1244.3	1110.2	967.8	810.0	659.3	541.0	481.2	460.9	460.9
17.5°	1398.4	1343.2	1204.5	1032.2	841.2	629.8	450.1	377.0	371.2	389.9	392.8
20°	1390.1	1323.2	1153.0	939.6	692.5	436.0	305.2	294.8	341.3	392.8	398.6
22.5°	1377.2	1297.5	1093.6	832.0	519.4	284.0	235.4	251.2	314.3	378.2	387.4
25°	1359.3	1266.3	1025.5	707.1	345.4	204.3	196.4	215.9	260.3	303.1	309.7
27.5°	1333.2	1226.9	951.2	571.7	220.5	168.2	171.1	184.8	203.9	222.1	225.9
30°	1300.4	1180.8	870.2	421.8	167.3	150.3	155.3	163.6	171.9	183.5	186.0
32.5°	1267.2	1133.9	786.0	289.8	146.1	140.8	145.7	150.3	157.4	165.2	166.9
35°	1237.3	1090.3	699.2	202.2	137.0	134.5	137.0	139.9	147.0	154.9	155.7
37.5°	1215.7	1054.6	608.7	159.8	131.6	129.1	130.4	131.6	139.9	151.5	152.8
40°	1212.8	1030.9	516.9	143.7	127.5	124.1	123.3	124.1	134.9	148.2	149.5
42.5°	1241.0	1032.2	427.2	137.0	124.1	120.4	117.1	118.7	128.3	138.7	139.5
45°	1307.9	1061.2	349.6	134.1	121.2	118.3	113.3	114.2	118.7	124.1	125.0
47.5°	1425.8	1124.8	290.2	132.4	118.7	116.3	110.0	107.5	108.0	110.9	110.9
50°	1614.3	1231.0	254.1	130.8	116.7	112.1	105.0	100.1	98.8	100.5	100.9
52.5°	1895.4	1413.3	236.7	127.5	112.9	106.7	98.8	93.8	91.8	93.4	93.4
55°	2275.3	1704.4	228.4	122.9	108.4	100.1	93.0	88.9	87.2	88.4	88.4
57.5°	2708.3	2082.6	242.5	116.7	102.6	93.0	88.0	85.1	83.9	85.1	85.5
60°	3222.7	2577.5	339.6	108.8	96.3	86.8	83.9	82.2	81.4	82.6	82.6
62.5°	3906.6	3236.0	525.6	102.6	89.7	81.0	80.1	79.3	78.5	79.7	79.7
65°	4644.8	3835.1	541.0	98.8	83.9	76.0	76.4	76.4	75.6	76.8	76.8
67.5°	4879.8	3783.2	302.3	94.2	76.8	71.0	72.7	72.7	72.2	73.5	73.1
68°	4829.9	3701.0	263.2	93.0	75.6	69.8	71.4	71.8	71.4	72.7	72.2
70°	4458.8	3249.3	173.1	85.9	70.2	65.6	68.1	68.5	68.1	69.8	69.3
72.5°	3680.7	2437.2	127.9	75.1	63.5	60.2	62.7	63.1	63.5	65.2	64.8
75°	2337.5	1346.1	100.9	63.9	56.9	54.0	56.5	57.7	58.5	61.0	59.8
77.5°	640.2	408.6	81.8	54.4	49.0	47.7	49.4	51.1	51.9	54.8	52.7
80°	224.2	180.6	68.1	46.1	40.7	40.3	41.9	43.6	44.4	46.9	44.4
82.5°	136.2	117.9	54.4	36.1	32.0	31.6	33.6	35.3	36.1	36.1	34.5
85°	71.0	62.3	39.9	25.3	22.0	20.8	24.5	26.6	27.0	26.6	25.3
87.5°	39.9	35.3	21.2	12.0	10.0	10.4	12.9	15.8	17.0	16.6	15.8
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)