

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: P271348

Luminaire Tested: **XNV2-AF-02-LED-U-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
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-T3-7027-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11496.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 128
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

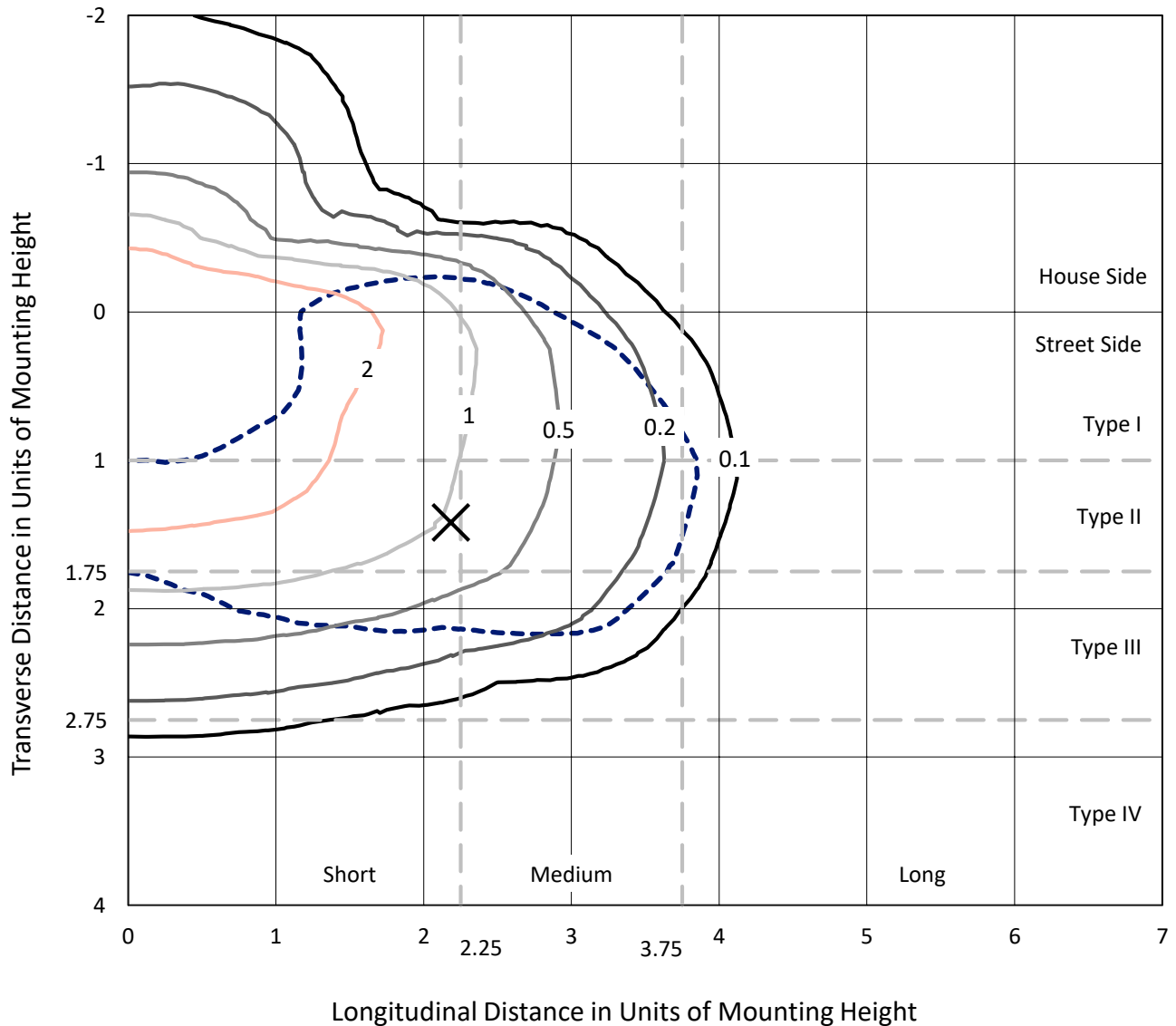


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

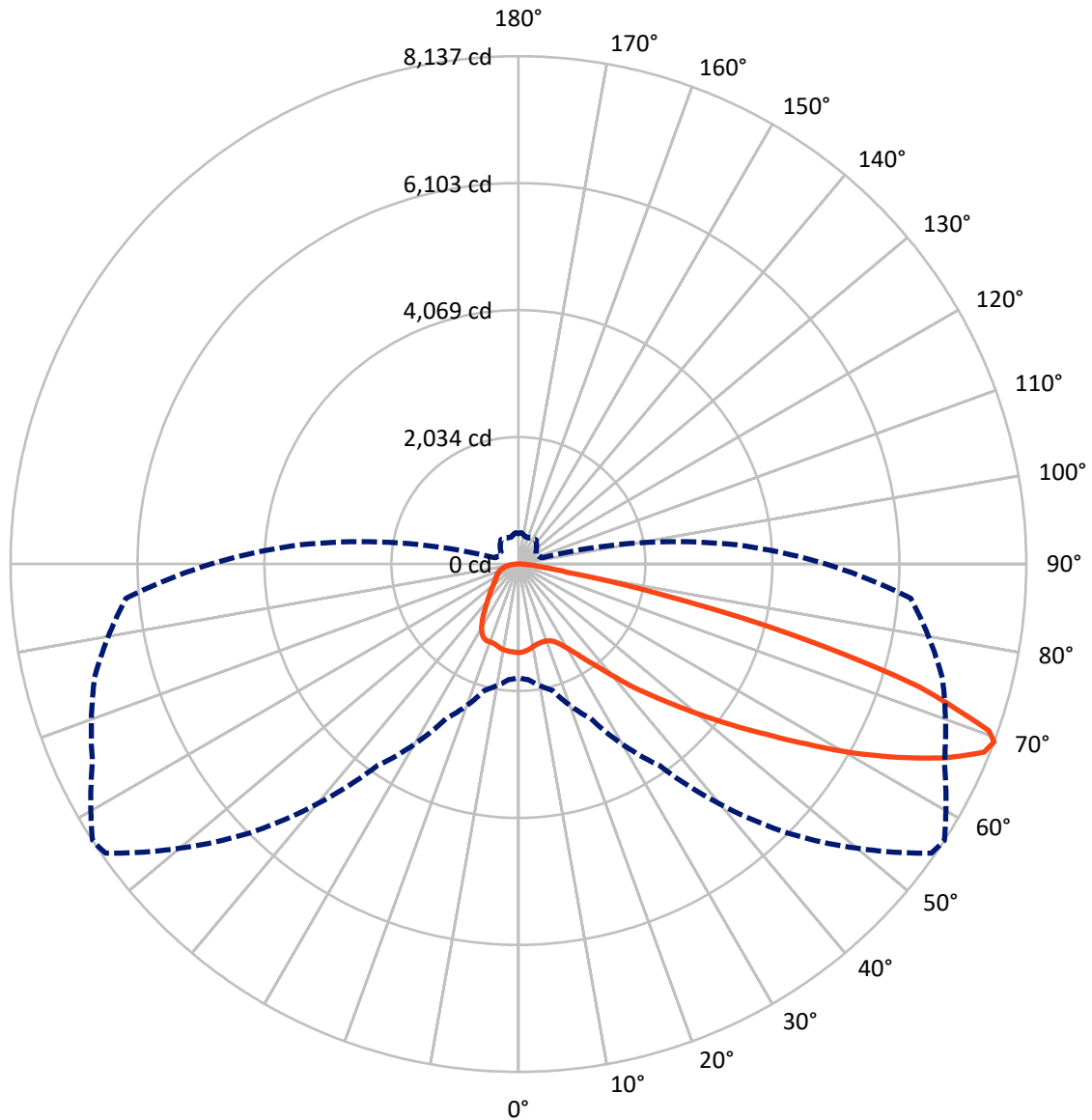


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.8	0.0	2536.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	8959.3	0.0	8959.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	11496.1	0.0	11496.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.2
10°-20°	378.1	3.3
20°-30°	629.0	5.5
30°-40°	1027.1	8.9
40°-50°	1733.5	15.1
50°-60°	2696.5	23.5
60°-70°	3212.2	27.9
70°-80°	1496.4	13.0
80°-90°	190.3	1.7
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°	11496.1	100.0
0°-180°	11496.1	100.0



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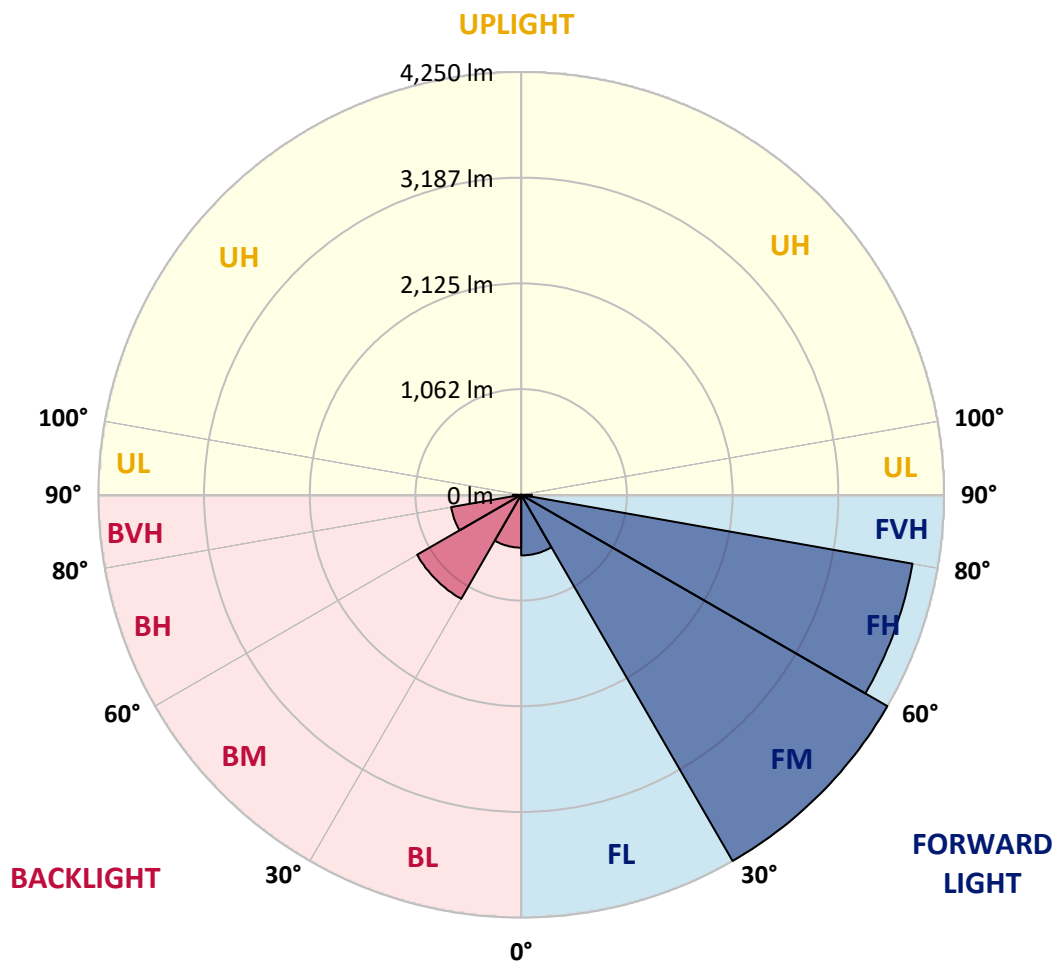
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.8	5.3			
FM	(30°-60°)	4249.7	37.0			
FH	(60°-80°)	3993.8	34.7			G2/5000
FVH	(80°-90°)	107.0	0.9			G2/225
BL	(0°-30°)	531.3	4.6	B2/1000		
BM	(30°-60°)	1207.4	10.5	B2/2500		
BH	(60°-80°)	714.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	83.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5
2.5°	1412.3	1412.3	1416.1	1416.1	1416.1	1414.7	1410.2	1411.6	1408.7	1406.4	1402.9
5°	1383.7	1385.1	1389.6	1391.0	1393.2	1394.0	1394.0	1393.2	1394.0	1394.0	1391.7
7.5°	1344.0	1345.4	1350.5	1353.4	1360.2	1366.1	1368.9	1368.9	1372.6	1375.6	1376.4
10°	1319.6	1319.6	1322.6	1322.6	1327.8	1330.7	1340.2	1339.6	1349.9	1359.3	1363.7
12.5°	1316.6	1316.6	1315.2	1310.1	1307.2	1306.3	1315.9	1317.5	1332.8	1349.9	1357.9
15°	1326.3	1326.3	1321.9	1311.5	1300.4	1295.4	1304.9	1307.8	1324.8	1344.7	1357.2
17.5°	1357.2	1356.4	1346.9	1326.3	1307.2	1298.9	1302.0	1304.9	1320.4	1343.1	1358.6
20°	1425.6	1425.6	1404.9	1367.5	1334.3	1315.2	1310.7	1313.1	1324.0	1345.4	1365.2
22.5°	1545.5	1547.8	1510.9	1449.1	1392.6	1351.9	1334.3	1336.6	1341.7	1362.3	1384.4
25°	1722.2	1716.3	1664.1	1576.4	1488.1	1419.1	1382.9	1385.1	1385.1	1404.3	1427.0
27.5°	1909.2	1910.7	1835.5	1741.4	1625.0	1522.0	1464.5	1463.9	1463.1	1481.6	1505.7
30°	2120.4	2121.1	2034.2	1925.3	1792.1	1660.3	1574.3	1573.6	1567.0	1589.7	1621.4
32.5°	2351.5	2350.8	2250.0	2126.9	1979.1	1829.7	1717.7	1717.1	1711.9	1742.8	1781.1
35°	2607.6	2607.6	2507.4	2355.8	2196.1	2029.9	1900.4	1899.6	1902.5	1944.6	1980.6
37.5°	2916.0	2922.5	2802.0	2617.9	2443.5	2266.2	2115.1	2110.7	2088.6	2159.3	2219.1
40°	3237.6	3255.9	3131.0	2916.0	2727.6	2544.3	2378.0	2374.9	2355.8	2431.0	2527.4
42.5°	3585.8	3627.6	3488.6	3269.2	3063.8	2866.0	2698.9	2690.8	2617.1	2734.3	2885.0
45°	4042.1	4069.2	3867.7	3668.9	3475.4	3249.3	3050.6	3007.3	2933.7	3083.8	3279.5
47.5°	4352.6	4339.4	4213.5	4080.3	3956.0	3739.6	3434.1	3379.0	3289.1	3487.8	3703.5
50°	4545.5	4555.0	4484.3	4477.7	4471.1	4320.3	3866.8	3800.5	3696.9	3932.4	4184.0
52.5°	4672.8	4629.3	4641.9	4792.0	4973.7	4901.7	4356.3	4282.7	4176.0	4411.4	4695.6
55°	4619.9	4562.4	4678.0	4973.7	5401.4	5417.6	4893.5	4817.8	4726.5	4920.8	5310.9
57.5°	4400.4	4429.2	4611.7	5023.1	5693.5	5879.8	5511.1	5433.8	5254.1	5451.5	5895.2
60°	4092.0	4150.2	4429.2	4945.1	5898.2	6239.6	6189.0	6137.4	5828.3	5968.1	6509.1
62.5°	3760.9	3818.2	4161.3	4812.0	5806.3	6558.3	6854.2	6822.5	6462.0	6465.6	6898.4
65°	3271.4	3295.1	3645.3	4448.2	5550.7	6846.2	7520.3	7492.4	7067.7	6890.3	7007.3
67.5°	2470.7	2500.2	2787.9	3511.4	4773.7	6690.0	8052.4	8048.0	7431.9	7047.8	6748.2
69°	1824.5	1860.6	2095.3	2726.0	3947.2	6095.4	8077.5	8137.0	7530.6	7031.7	6310.4
70°	1335.2	1376.4	1593.5	2163.7	3287.6	5439.0	7863.3	7991.3	7493.1	6929.3	5968.9
72.5°	567.5	581.5	688.1	976.6	1667.8	3279.5	6440.6	6710.0	6767.4	6208.7	4663.2
75°	355.5	360.0	401.8	501.3	741.9	1356.4	4170.8	4538.1	5052.5	4817.0	3122.1
77.5°	268.0	271.6	295.8	345.2	460.7	506.4	1934.9	2307.3	2893.9	2833.6	1553.7
80°	205.4	207.6	223.8	250.9	324.6	317.2	627.7	789.0	1207.7	1065.7	549.9
82.5°	161.2	162.0	175.9	181.1	226.7	213.4	314.9	351.1	488.0	405.6	268.7
85°	142.8	144.9	159.0	132.5	144.9	128.7	173.0	187.7	259.2	244.3	101.6
87.5°	72.9	76.5	133.2	113.4	72.9	61.1	75.7	81.7	105.2	114.1	49.2
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°	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5
2.5°	1403.5	1404.3	1406.4	1410.2	1416.1	1423.5	1432.3	1441.2	1446.2	1450.0	1448.4
5°	1391.7	1392.6	1397.0	1403.5	1410.9	1421.9	1436.7	1447.7	1455.8	1461.0	1460.1
7.5°	1377.0	1379.3	1388.2	1395.4	1405.8	1414.7	1426.4	1436.7	1444.7	1450.0	1449.1
10°	1366.1	1368.2	1379.3	1388.8	1397.7	1399.1	1397.0	1394.0	1393.2	1397.0	1395.4
12.5°	1360.8	1365.2	1375.6	1382.2	1378.4	1364.5	1348.4	1341.7	1339.6	1346.9	1347.5
15°	1362.3	1366.1	1374.9	1370.5	1350.5	1326.9	1318.2	1323.4	1327.8	1332.1	1332.8
17.5°	1366.1	1368.2	1370.5	1354.3	1326.3	1310.7	1307.8	1302.7	1289.4	1282.2	1281.3
20°	1372.6	1375.6	1371.9	1346.1	1321.0	1300.4	1265.2	1233.6	1203.3	1187.1	1180.6
22.5°	1395.4	1397.7	1386.7	1361.7	1323.4	1256.3	1185.0	1130.4	1084.2	1059.1	1049.5
25°	1440.3	1444.0	1428.6	1397.0	1296.9	1179.7	1079.0	1005.4	947.3	917.0	908.9
27.5°	1519.0	1522.7	1505.7	1423.5	1235.0	1077.4	955.3	882.5	832.4	806.7	802.9
30°	1636.8	1642.0	1626.6	1422.6	1140.8	947.3	834.6	791.9	763.2	745.6	744.9
32.5°	1800.3	1819.3	1756.0	1397.7	1024.4	815.5	743.3	728.6	714.6	702.8	702.8
35°	2007.8	2052.6	1884.1	1345.4	896.4	725.7	692.6	678.6	661.0	648.3	646.9
37.5°	2255.9	2325.7	1975.5	1252.6	786.0	682.3	661.6	638.9	610.8	586.6	580.7
40°	2596.6	2612.8	2020.3	1101.9	703.6	658.6	632.9	604.2	568.9	541.7	538.8
42.5°	2938.7	2885.8	2011.5	939.8	656.5	637.3	603.5	572.0	540.2	517.5	517.5
45°	3328.1	3124.2	1944.6	777.3	613.8	613.1	576.4	546.1	521.8	504.8	501.3
47.5°	3700.6	3338.5	1828.9	657.2	569.6	588.7	558.7	534.3	512.3	496.0	493.1
50°	4152.4	3586.5	1706.1	573.4	526.9	567.5	551.3	538.8	517.5	489.4	486.5
52.5°	4601.4	3876.5	1611.1	510.1	489.4	550.5	555.7	557.2	537.2	482.7	479.2
55°	5083.5	4186.3	1510.9	460.7	458.6	542.4	566.0	564.6	555.0	484.2	478.3
57.5°	5542.0	4497.6	1361.7	426.2	434.2	534.3	568.2	544.6	527.8	491.6	482.1
60°	5921.7	4755.2	1142.3	401.8	413.6	518.1	553.4	518.1	489.4	490.1	481.3
62.5°	6106.5	4827.3	873.6	373.9	396.7	491.6	532.2	498.3	471.8	493.1	488.0
65°	5966.0	4622.0	622.6	348.2	376.1	460.7	519.6	481.3	462.9	507.8	502.0
67.5°	5461.1	4062.7	451.8	325.2	356.2	429.1	496.0	466.0	454.2	519.0	505.7
69°	4924.5	3507.7	391.5	312.0	342.3	412.1	480.7	457.7	447.4	503.4	484.2
70°	4478.5	3080.1	361.4	303.9	330.4	402.6	468.8	452.7	440.9	485.1	462.2
72.5°	3211.1	1990.9	303.9	279.7	299.6	381.2	443.0	433.5	415.8	438.0	423.2
75°	1940.1	1039.2	258.4	254.7	267.2	351.7	413.0	401.2	383.4	385.6	378.2
77.5°	891.3	479.9	216.4	225.2	233.3	314.9	376.1	362.8	346.7	340.7	341.4
80°	390.9	280.5	181.1	192.1	196.5	283.3	336.3	321.7	303.9	335.5	311.4
82.5°	211.2	162.7	141.4	148.7	161.2	246.6	292.2	273.1	256.1	298.1	240.7
85°	85.3	83.2	95.7	103.0	111.8	177.3	244.3	224.4	203.8	182.5	178.1
87.5°	36.8	39.7	47.2	50.0	59.6	110.4	164.1	143.5	144.3	123.6	121.5
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)