

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: P198531

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198531
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-SL2-7030-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 5738 lumens
Efficiency: N/A
Efficacy: 86.9 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

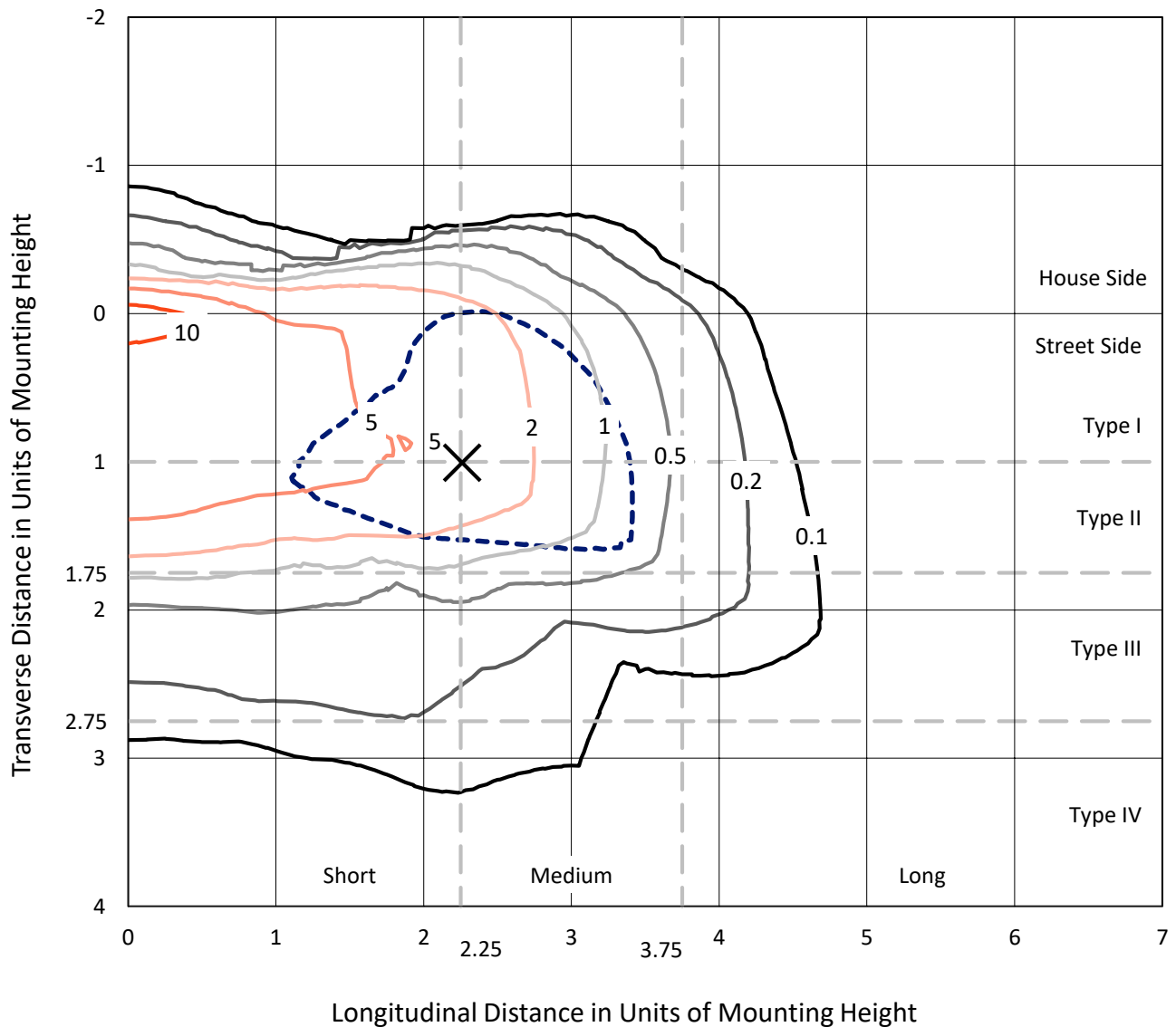
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

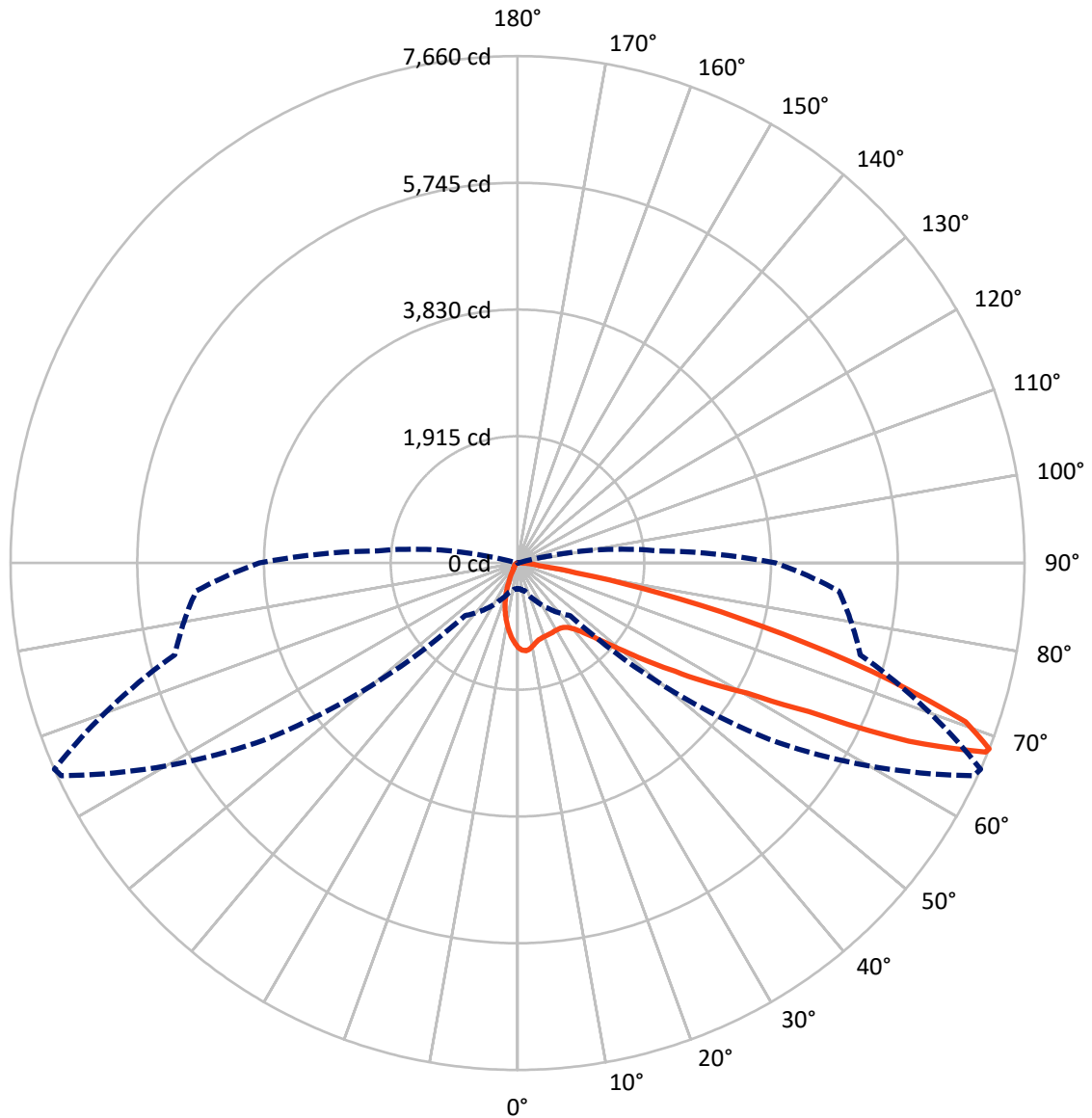


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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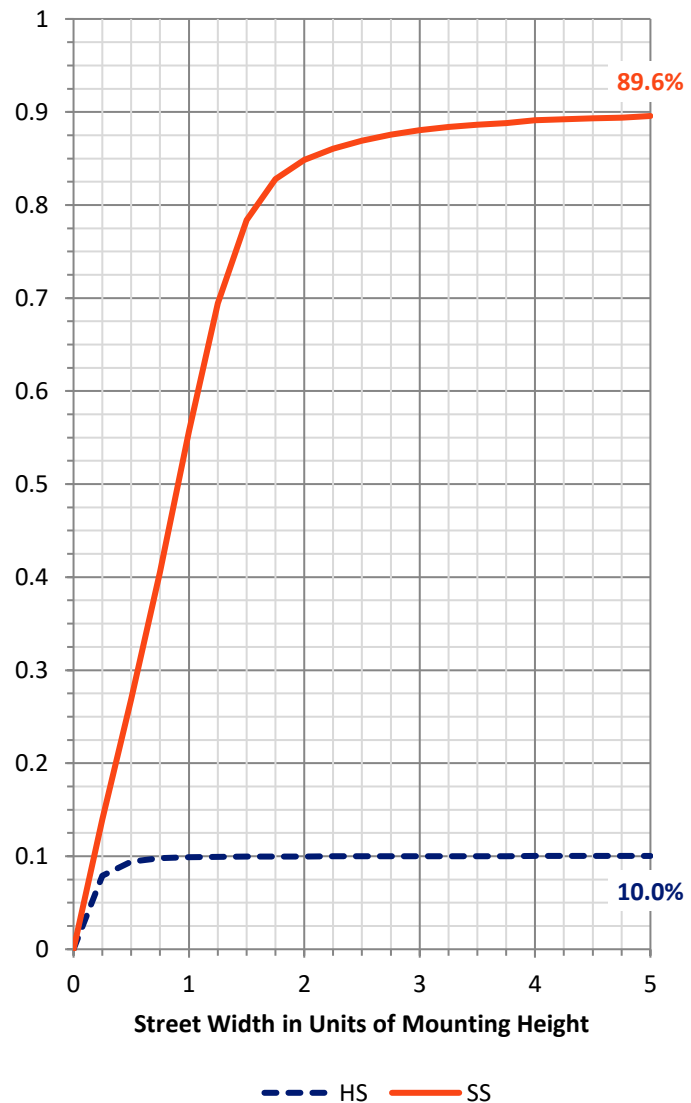
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.2	0.0	581.2
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	5156.8	0.0	5156.8
	% Fixture	89.9	0.0	89.9
Total	Lumens	5738.0	0.0	5738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.8
10°-20°	225.5	3.9
20°-30°	326.8	5.7
30°-40°	500.2	8.7
40°-50°	855.6	14.9
50°-60°	1338.3	23.3
60°-70°	1541.0	26.9
70°-80°	771.2	13.4
80°-90°	74.7	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°	5738.0	100.0
0°-180°	5738.0	100.0

Coefficient of Utilization



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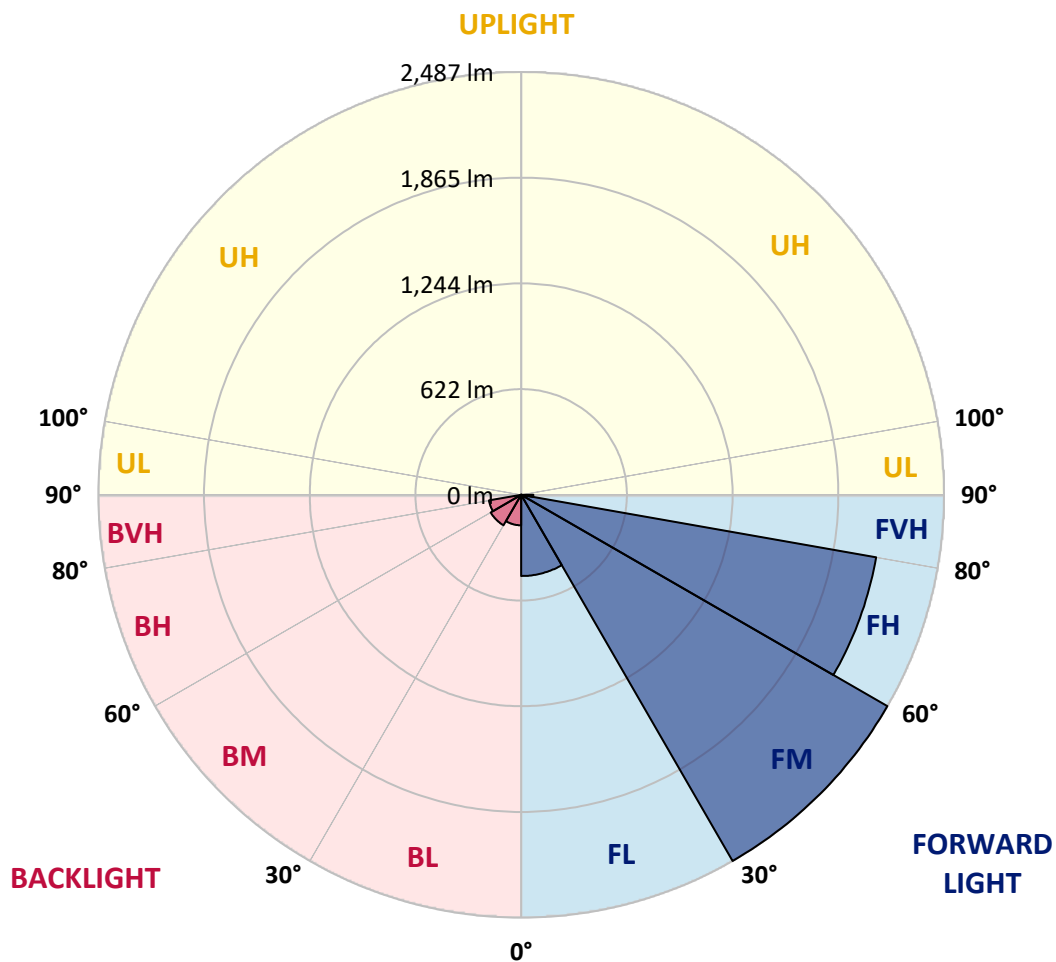
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.7	8.3			
FM (30°-60°)	2487.1	43.3			
FH (60°-80°)	2120.2	36.9			G2/5000
FVH (80°-90°)	71.9	1.3			G1/100
BL (0°-30°)	179.4	3.1	B1/500		
BM (30°-60°)	207.0	3.6	B0/220		
BH (60°-80°)	192.0	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°	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4
2.5°	1344.6	1345.5	1345.0	1346.4	1345.5	1338.7	1331.5	1316.2	1317.6	1297.7	1275.7
5°	1250.0	1257.7	1265.3	1273.0	1291.4	1307.7	1327.0	1331.5	1331.5	1314.4	1282.0
7.5°	1153.6	1154.0	1162.6	1173.0	1197.7	1227.5	1272.5	1313.1	1314.0	1318.5	1282.9
10°	1081.1	1083.3	1089.2	1100.4	1125.2	1154.5	1204.9	1268.5	1273.4	1306.8	1273.9
12.5°	1024.8	1027.5	1033.8	1046.8	1069.4	1099.5	1152.7	1225.2	1232.0	1295.5	1271.2
15°	981.5	985.1	990.1	1003.1	1027.5	1059.5	1117.6	1196.4	1204.5	1291.0	1279.7
17.5°	963.5	963.5	963.1	972.1	996.4	1028.8	1089.6	1181.1	1191.4	1294.6	1294.1
20°	971.2	969.8	960.4	958.1	973.0	1005.4	1067.6	1171.2	1182.9	1301.3	1311.7
22.5°	1011.7	1009.0	987.8	970.3	965.8	987.4	1052.7	1164.4	1178.4	1315.3	1335.1
25°	1097.7	1089.6	1060.4	1020.7	985.1	982.9	1042.3	1160.8	1175.7	1331.5	1360.8
27.5°	1209.5	1207.2	1160.4	1107.2	1038.7	997.7	1039.2	1158.1	1173.0	1343.2	1381.5
30°	1348.2	1349.1	1295.0	1225.7	1122.1	1039.6	1049.1	1156.8	1172.1	1344.1	1390.5
32.5°	1491.4	1492.3	1447.3	1373.0	1236.0	1111.7	1077.0	1163.1	1177.0	1340.5	1390.1
35°	1629.3	1630.6	1603.6	1543.7	1388.3	1211.7	1129.7	1184.7	1194.6	1342.8	1389.2
37.5°	1803.6	1809.0	1775.7	1719.8	1579.3	1358.6	1215.8	1228.4	1236.5	1361.3	1395.9
40°	2100.9	2093.7	1998.2	1903.6	1786.5	1537.4	1340.1	1303.6	1306.3	1409.0	1421.6
42.5°	2447.3	2438.3	2274.8	2111.7	1999.5	1753.1	1499.1	1418.9	1418.5	1489.2	1477.5
45°	2745.5	2740.1	2568.0	2350.4	2235.6	1991.4	1695.0	1585.1	1579.7	1627.9	1579.3
47.5°	2957.2	2952.7	2822.5	2604.5	2508.5	2253.6	1939.6	1811.7	1800.4	1809.5	1744.6
50°	2977.9	2973.0	2927.5	2787.4	2827.5	2638.3	2241.9	2108.5	2094.1	2080.2	1994.6
52.5°	2784.2	2783.8	2807.6	2798.6	3050.9	3133.3	2612.6	2475.7	2458.5	2423.0	2337.8
55°	2388.3	2386.0	2476.6	2608.1	3045.9	3644.1	3177.9	2912.6	2890.1	2818.9	2707.2
57.5°	1745.0	1733.3	1922.5	2201.3	2832.0	3867.5	4075.7	3455.4	3418.0	3192.3	3020.3
60°	963.5	968.0	1211.3	1541.4	2325.2	3823.4	4901.8	4088.3	3990.1	3514.4	3341.0
62.5°	540.1	551.3	732.4	1001.8	1482.4	3465.3	5345.0	5177.5	4941.0	3890.1	3746.4
65°	408.6	415.3	506.3	773.0	934.7	2421.6	5415.7	6700.4	6496.4	4459.4	4391.9
67.5°	384.7	390.1	434.7	641.0	851.3	1255.8	4883.3	7601.3	7627.0	5236.0	4891.9
68°	387.4	394.1	438.7	616.7	850.0	1123.4	4656.3	7605.8	7660.3	5361.2	4874.8
70°	355.9	357.7	464.0	605.0	823.9	885.1	3368.5	7084.7	7182.4	5510.3	4425.2
72.5°	136.0	136.5	208.1	523.9	863.1	890.1	1696.8	5599.5	5604.5	4795.5	3450.0
75°	70.7	59.5	65.3	164.0	824.3	867.6	851.3	3823.4	3799.5	3243.2	2114.0
77.5°	48.6	41.4	43.7	56.8	342.8	867.1	614.9	2198.6	2193.7	1379.7	603.2
80°	27.5	23.9	26.1	47.7	120.3	814.0	573.0	945.0	890.5	242.3	97.7
82.5°	14.0	11.7	14.0	40.1	74.8	512.2	557.2	370.7	330.2	57.7	63.5
85°	3.6	3.6	6.8	27.9	46.4	168.0	499.5	267.6	240.5	25.2	45.0
87.5°	0.9	0.5	2.7	10.4	16.7	36.5	277.0	149.1	128.4	13.1	26.1
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°	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4
2.5°	1266.7	1254.0	1229.3	1201.3	1181.5	1159.9	1147.3	1132.0	1120.3	1109.9	1117.6
5°	1262.2	1237.8	1182.9	1121.2	1069.4	1019.8	982.9	947.7	921.2	904.5	911.3
7.5°	1250.4	1214.4	1125.2	1028.8	944.1	864.4	799.5	741.4	696.4	672.1	679.7
10°	1230.6	1179.7	1059.9	926.1	807.7	695.0	598.6	512.2	446.8	416.2	423.4
12.5°	1216.2	1149.1	992.3	827.0	671.2	511.3	383.3	284.2	233.3	202.7	205.4
15°	1209.9	1125.2	929.3	722.5	522.1	328.4	207.2	150.0	132.4	126.1	126.6
17.5°	1210.8	1106.3	869.4	614.0	371.6	188.7	127.0	114.4	111.7	110.4	110.4
20°	1213.1	1087.4	807.2	500.9	237.8	121.6	105.9	101.8	100.4	98.6	99.1
22.5°	1219.8	1073.0	744.6	387.4	146.4	99.1	93.7	90.1	87.8	85.1	85.6
25°	1230.2	1062.2	682.9	278.8	103.2	86.5	81.5	76.6	72.5	69.4	69.8
27.5°	1236.5	1046.8	617.1	190.1	85.6	75.7	68.9	62.2	57.7	55.0	54.5
30°	1232.0	1022.1	542.3	124.8	75.7	65.3	57.2	49.5	45.0	42.8	42.8
32.5°	1219.8	990.1	459.9	91.0	67.1	56.3	46.4	39.6	36.5	35.1	35.6
35°	1205.8	956.8	372.1	77.0	60.4	47.7	37.8	32.4	31.1	30.6	30.6
37.5°	1198.2	927.9	287.8	69.8	54.1	39.6	31.1	27.9	26.6	26.6	26.6
40°	1206.8	905.9	213.1	64.4	47.7	32.9	26.1	23.9	23.4	23.4	23.4
42.5°	1243.2	898.2	155.9	59.9	41.4	27.5	22.5	20.7	20.3	20.7	20.7
45°	1314.4	914.9	118.0	55.4	35.6	22.5	19.4	18.0	18.0	18.5	18.5
47.5°	1435.1	957.7	96.8	50.9	29.7	18.9	16.7	15.8	15.8	16.2	16.2
50°	1622.5	1036.9	86.9	45.9	24.8	16.2	14.0	13.5	13.5	14.0	14.4
52.5°	1907.2	1187.8	82.0	41.0	20.3	13.5	11.7	11.3	11.7	12.2	12.2
55°	2223.9	1381.1	76.1	36.0	17.1	11.3	9.5	9.5	9.9	10.8	10.8
57.5°	2518.9	1567.6	70.7	29.7	14.9	9.0	7.7	7.7	8.6	9.5	9.5
60°	2830.6	1750.4	63.5	23.9	12.6	7.2	6.3	6.3	7.7	8.6	9.0
62.5°	3215.8	1963.1	54.1	18.9	9.9	5.4	4.5	5.9	7.2	8.6	8.6
65°	3772.5	2227.5	42.3	14.9	7.7	4.1	3.6	5.4	6.8	8.1	8.6
67.5°	3974.8	2193.7	32.0	12.2	5.9	3.2	3.2	5.0	6.8	8.1	8.1
68°	3900.9	2119.8	30.6	11.7	5.4	3.2	3.2	5.0	6.8	8.1	8.1
70°	3399.1	1732.9	25.2	9.0	4.5	2.7	2.7	4.5	6.8	7.7	8.1
72.5°	2545.0	1151.3	21.6	5.9	4.1	2.7	2.3	4.5	6.3	7.7	7.7
75°	1459.9	477.9	18.5	4.5	3.6	2.3	2.3	4.1	6.3	7.7	7.7
77.5°	412.6	111.7	14.9	3.6	3.2	2.3	1.8	4.1	5.9	7.2	7.2
80°	75.7	33.3	11.7	3.2	2.7	2.3	1.8	4.1	5.9	7.2	7.2
82.5°	50.0	15.8	8.6	3.2	2.7	2.3	1.8	3.6	5.4	6.8	6.8
85°	37.4	11.3	5.4	3.2	2.7	2.3	1.8	3.6	5.4	6.8	6.8
87.5°	20.7	5.0	4.1	3.6	3.2	2.3	1.8	3.2	5.0	6.3	6.3
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)