

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: P199171

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199171
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-SL2-8030-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 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: 5289 lumens
Efficiency: N/A
Efficacy: 80.1 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

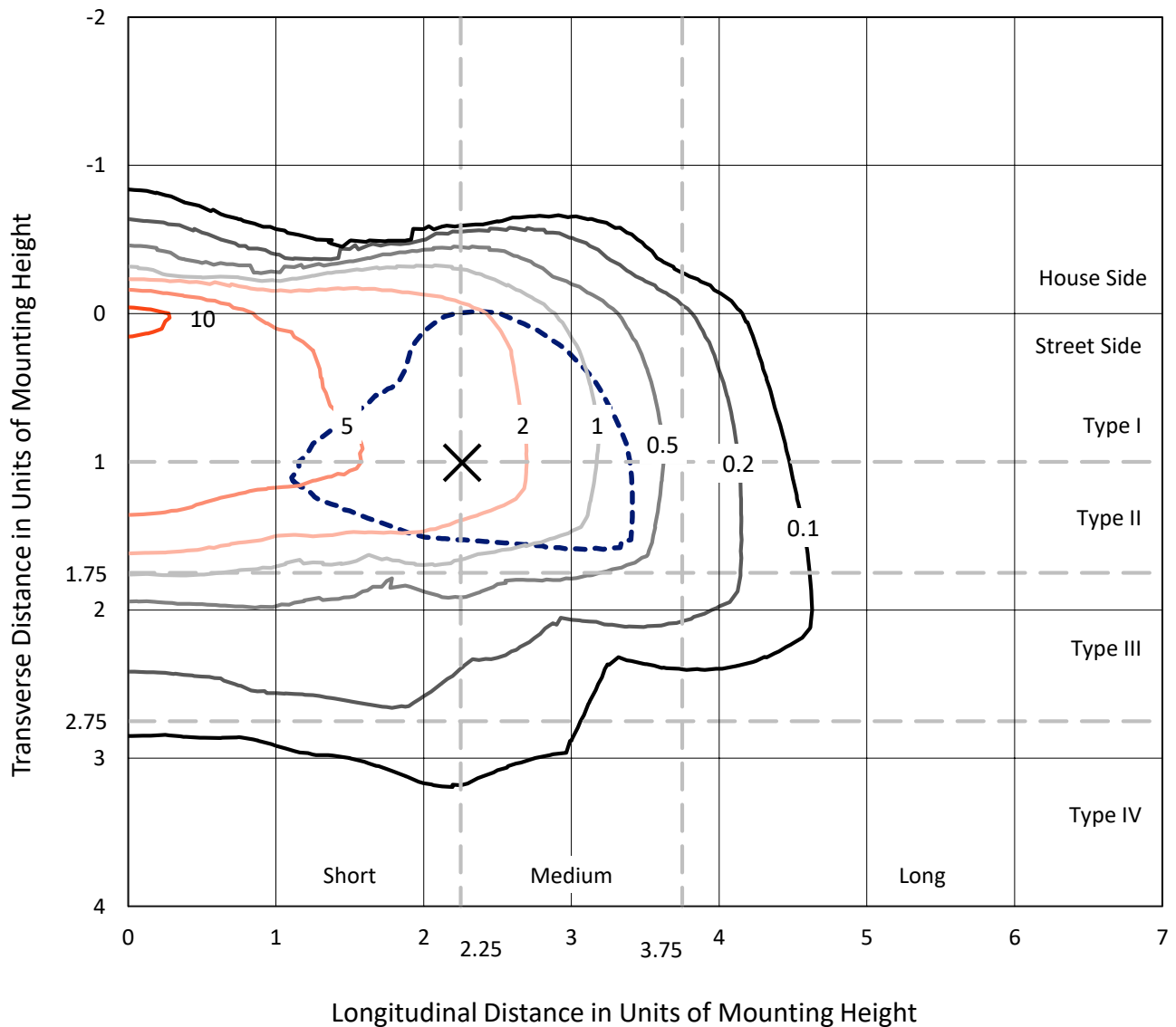


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

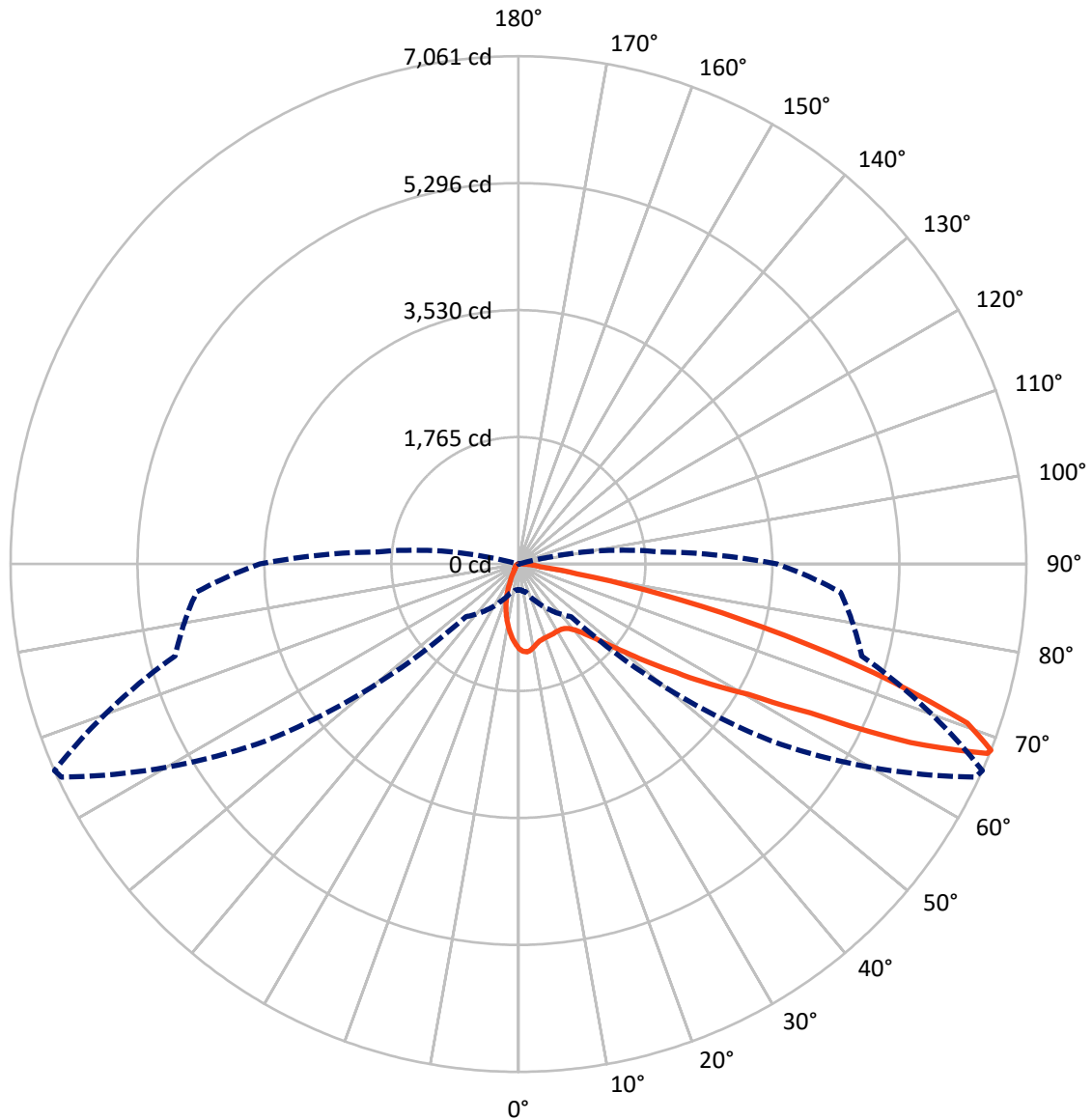


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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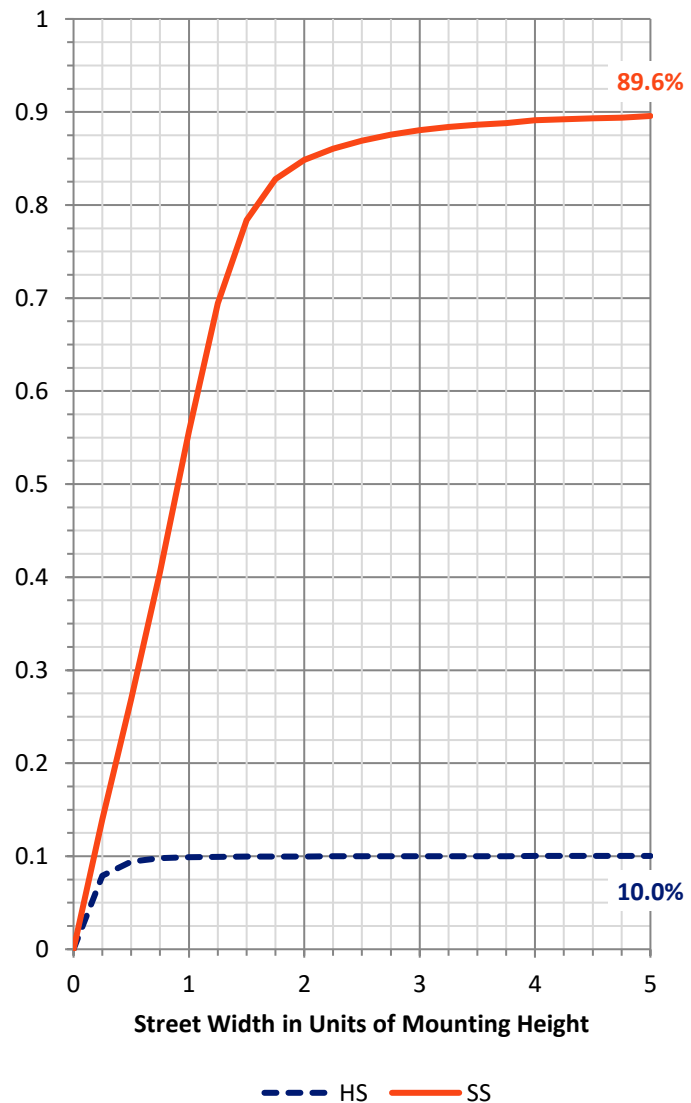
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.7	0.0	535.7
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	4753.3	0.0	4753.3
	% Fixture	89.9	0.0	89.9
Total	Lumens	5289.0	0.0	5289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.8
10°-20°	207.8	3.9
20°-30°	301.2	5.7
30°-40°	461.1	8.7
40°-50°	788.6	14.9
50°-60°	1233.6	23.3
60°-70°	1420.4	26.9
70°-80°	710.8	13.4
80°-90°	68.8	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°	5289.0	100.0
0°-180°	5289.0	100.0

Coefficient of Utilization



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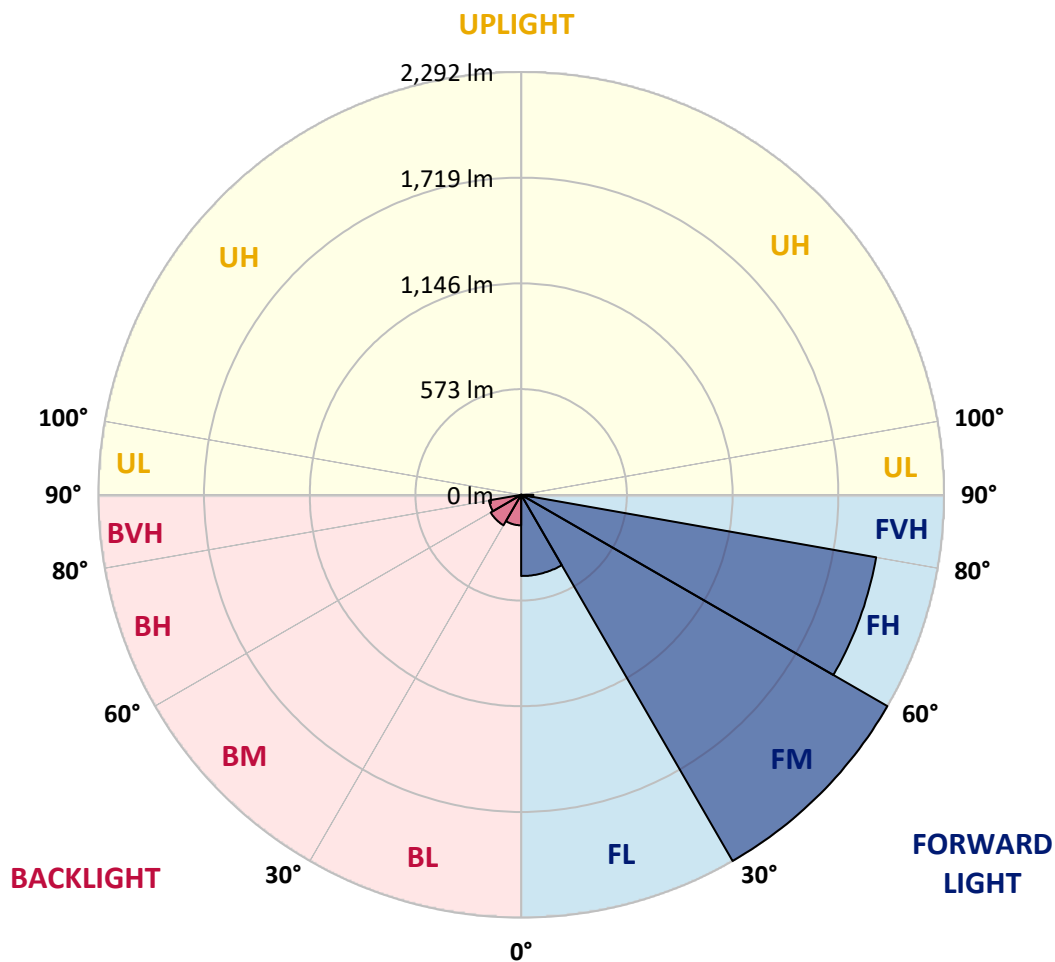
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.3	8.3			
FM (30°-60°)	2292.5	43.3			
FH (60°-80°)	1954.3	36.9			G2/5000
FVH (80°-90°)	66.2	1.3			G1/100
BL (0°-30°)	165.3	3.1	B1/500		
BM (30°-60°)	190.8	3.6	B0/220		
BH (60°-80°)	177.0	3.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3
2.5°	1239.4	1240.2	1239.8	1241.0	1240.2	1234.0	1227.3	1213.2	1214.5	1196.2	1175.8
5°	1152.2	1159.2	1166.3	1173.4	1190.4	1205.3	1223.2	1227.3	1227.3	1211.6	1181.7
7.5°	1063.3	1063.7	1071.6	1081.2	1104.0	1131.4	1172.9	1210.3	1211.1	1215.3	1182.5
10°	996.5	998.6	1004.0	1014.3	1037.2	1064.2	1110.7	1169.2	1173.8	1204.5	1174.2
12.5°	944.6	947.1	952.9	964.9	985.7	1013.5	1062.5	1129.3	1135.6	1194.1	1171.7
15°	904.7	908.0	912.6	924.7	947.1	976.6	1030.1	1102.8	1110.2	1190.0	1179.6
17.5°	888.1	888.1	887.7	896.0	918.4	948.3	1004.4	1088.7	1098.2	1193.3	1192.9
20°	895.2	893.9	885.2	883.1	896.8	926.7	984.0	1079.5	1090.3	1199.5	1209.1
22.5°	932.5	930.0	910.5	894.3	890.2	910.1	970.3	1073.3	1086.2	1212.4	1230.7
25°	1011.8	1004.4	977.4	940.8	908.0	906.0	960.8	1070.0	1083.7	1227.3	1254.3
27.5°	1114.8	1112.7	1069.6	1020.6	957.5	919.7	957.9	1067.5	1081.2	1238.1	1273.4
30°	1242.7	1243.5	1193.7	1129.8	1034.3	958.3	967.0	1066.2	1080.4	1239.0	1281.7
32.5°	1374.7	1375.6	1334.0	1265.5	1139.3	1024.7	992.7	1072.0	1084.9	1235.6	1281.3
35°	1501.8	1503.0	1478.1	1422.9	1279.6	1116.9	1041.3	1092.0	1101.1	1237.7	1280.5
37.5°	1662.5	1667.4	1636.7	1585.2	1455.7	1252.2	1120.6	1132.3	1139.7	1254.7	1286.7
40°	1936.5	1929.9	1841.8	1754.6	1646.7	1417.1	1235.2	1201.6	1204.1	1298.7	1310.4
42.5°	2255.8	2247.5	2096.8	1946.5	1843.1	1616.0	1381.8	1307.9	1307.5	1372.7	1361.9
45°	2530.6	2525.7	2367.1	2166.5	2060.6	1835.6	1562.4	1461.1	1456.1	1500.5	1455.7
47.5°	2725.8	2721.6	2601.6	2400.7	2312.3	2077.2	1787.9	1669.9	1659.6	1667.9	1608.1
50°	2744.9	2740.3	2698.4	2569.3	2606.2	2431.8	2066.5	1943.6	1930.3	1917.4	1838.5
52.5°	2566.4	2565.9	2587.9	2579.6	2812.2	2888.1	2408.2	2281.9	2266.2	2233.4	2154.9
55°	2201.4	2199.3	2282.8	2404.0	2807.6	3359.0	2929.2	2684.7	2663.9	2598.3	2495.4
57.5°	1608.5	1597.7	1772.1	2029.1	2610.4	3564.9	3756.7	3185.0	3150.5	2942.5	2783.9
60°	888.1	892.3	1116.5	1420.8	2143.3	3524.2	4518.2	3768.4	3677.8	3239.4	3079.5
62.5°	497.8	508.2	675.1	923.4	1366.4	3194.1	4926.8	4772.3	4554.3	3585.7	3453.2
65°	376.6	382.8	466.7	712.5	861.5	2232.1	4992.0	6176.1	5988.0	4110.5	4048.2
67.5°	354.6	359.6	400.7	590.8	784.7	1157.6	4501.2	7006.5	7030.2	4826.3	4509.1
68°	357.1	363.3	404.4	568.4	783.5	1035.5	4291.9	7010.7	7060.9	4941.7	4493.3
70°	328.0	329.7	427.7	557.6	759.4	815.9	3104.9	6530.3	6620.4	5079.1	4078.9
72.5°	125.4	125.8	191.8	482.9	795.5	820.4	1564.1	5161.4	5165.9	4420.2	3180.0
75°	65.2	54.8	60.2	151.1	759.8	799.7	784.7	3524.2	3502.2	2989.4	1948.5
77.5°	44.8	38.2	40.3	52.3	316.0	799.3	566.7	2026.6	2022.0	1271.8	556.0
80°	25.3	22.0	24.1	44.0	110.9	750.3	528.1	871.1	820.9	223.4	90.1
82.5°	12.9	10.8	12.9	37.0	68.9	472.1	513.6	341.7	304.3	53.1	58.5
85°	3.3	3.3	6.2	25.7	42.8	154.9	460.5	246.6	221.7	23.3	41.5
87.5°	0.8	0.4	2.5	9.5	15.4	33.6	255.3	137.4	118.3	12.0	24.1
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°	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3	1178.3
2.5°	1167.5	1155.9	1133.1	1107.3	1089.1	1069.1	1057.5	1043.4	1032.6	1023.1	1030.1
5°	1163.4	1141.0	1090.3	1033.4	985.7	940.0	906.0	873.6	849.1	833.7	840.0
7.5°	1152.6	1119.4	1037.2	948.3	870.3	796.8	737.0	683.4	641.9	619.5	626.5
10°	1134.3	1087.4	977.0	853.7	744.5	640.7	551.8	472.1	411.9	383.6	390.3
12.5°	1121.0	1059.2	914.7	762.3	618.6	471.3	353.3	262.0	215.1	186.8	189.3
15°	1115.2	1037.2	856.6	666.0	481.2	302.7	191.0	138.3	122.1	116.3	116.7
17.5°	1116.1	1019.7	801.3	565.9	342.5	174.0	117.1	105.5	103.0	101.7	101.7
20°	1118.1	1002.3	744.0	461.7	219.2	112.1	97.6	93.8	92.6	90.9	91.3
22.5°	1124.4	989.0	686.3	357.1	134.9	91.3	86.4	83.0	81.0	78.5	78.9
25°	1133.9	979.0	629.4	257.0	95.1	79.7	75.2	70.6	66.8	63.9	64.4
27.5°	1139.7	964.9	568.8	175.2	78.9	69.8	63.5	57.3	53.1	50.7	50.2
30°	1135.6	942.1	499.9	115.0	69.8	60.2	52.7	45.7	41.5	39.4	39.4
32.5°	1124.4	912.6	423.9	83.9	61.9	51.9	42.8	36.5	33.6	32.4	32.8
35°	1111.5	881.9	343.0	71.0	55.6	44.0	34.9	29.9	28.6	28.2	28.2
37.5°	1104.4	855.3	265.3	64.4	49.8	36.5	28.6	25.7	24.5	24.5	24.5
40°	1112.3	835.0	196.4	59.4	44.0	30.3	24.1	22.0	21.6	21.6	21.6
42.5°	1146.0	827.9	143.7	55.2	38.2	25.3	20.8	19.1	18.7	19.1	19.1
45°	1211.6	843.3	108.8	51.1	32.8	20.8	17.9	16.6	16.6	17.0	17.0
47.5°	1322.8	882.7	89.3	46.9	27.4	17.4	15.4	14.5	14.5	14.9	14.9
50°	1495.6	955.8	80.1	42.4	22.8	14.9	12.9	12.5	12.5	12.9	13.3
52.5°	1758.0	1094.9	75.6	37.8	18.7	12.5	10.8	10.4	10.8	11.2	11.2
55°	2049.8	1273.0	70.2	33.2	15.8	10.4	8.7	8.7	9.1	10.0	10.0
57.5°	2321.8	1444.9	65.2	27.4	13.7	8.3	7.1	7.1	7.9	8.7	8.7
60°	2609.1	1613.5	58.5	22.0	11.6	6.6	5.8	5.8	7.1	7.9	8.3
62.5°	2964.1	1809.4	49.8	17.4	9.1	5.0	4.2	5.4	6.6	7.9	7.9
65°	3477.3	2053.2	39.0	13.7	7.1	3.7	3.3	5.0	6.2	7.5	7.9
67.5°	3663.7	2022.0	29.5	11.2	5.4	2.9	2.9	4.6	6.2	7.5	7.5
68°	3595.6	1953.9	28.2	10.8	5.0	2.9	2.9	4.6	6.2	7.5	7.5
70°	3133.1	1597.3	23.3	8.3	4.2	2.5	2.5	4.2	6.2	7.1	7.5
72.5°	2345.9	1061.3	19.9	5.4	3.7	2.5	2.1	4.2	5.8	7.1	7.1
75°	1345.7	440.5	17.0	4.2	3.3	2.1	2.1	3.7	5.8	7.1	7.1
77.5°	380.3	103.0	13.7	3.3	2.9	2.1	1.7	3.7	5.4	6.6	6.6
80°	69.8	30.7	10.8	2.9	2.5	2.1	1.7	3.7	5.4	6.6	6.6
82.5°	46.1	14.5	7.9	2.9	2.5	2.1	1.7	3.3	5.0	6.2	6.2
85°	34.5	10.4	5.0	2.9	2.5	2.1	1.7	3.3	5.0	6.2	6.2
87.5°	19.1	4.6	3.7	3.3	2.9	2.1	1.7	2.9	4.6	5.8	5.8
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)