

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: P197018

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197018
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: NVN-AF-02-LED-U-SL2-8030-600-HSS
Description: NAVION 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: 5342 lumens
Efficiency: N/A
Efficacy: 80.9 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 (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

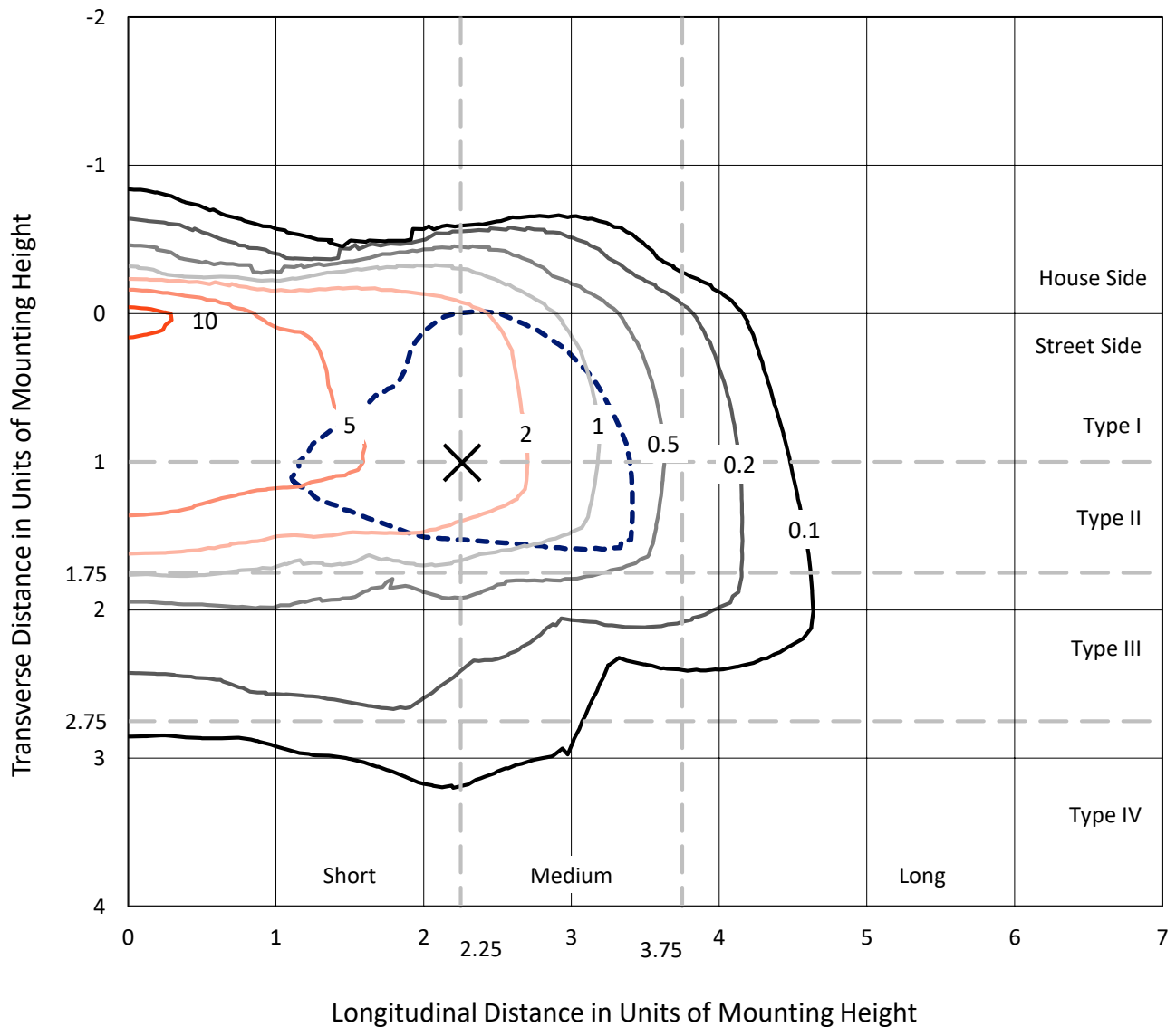


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

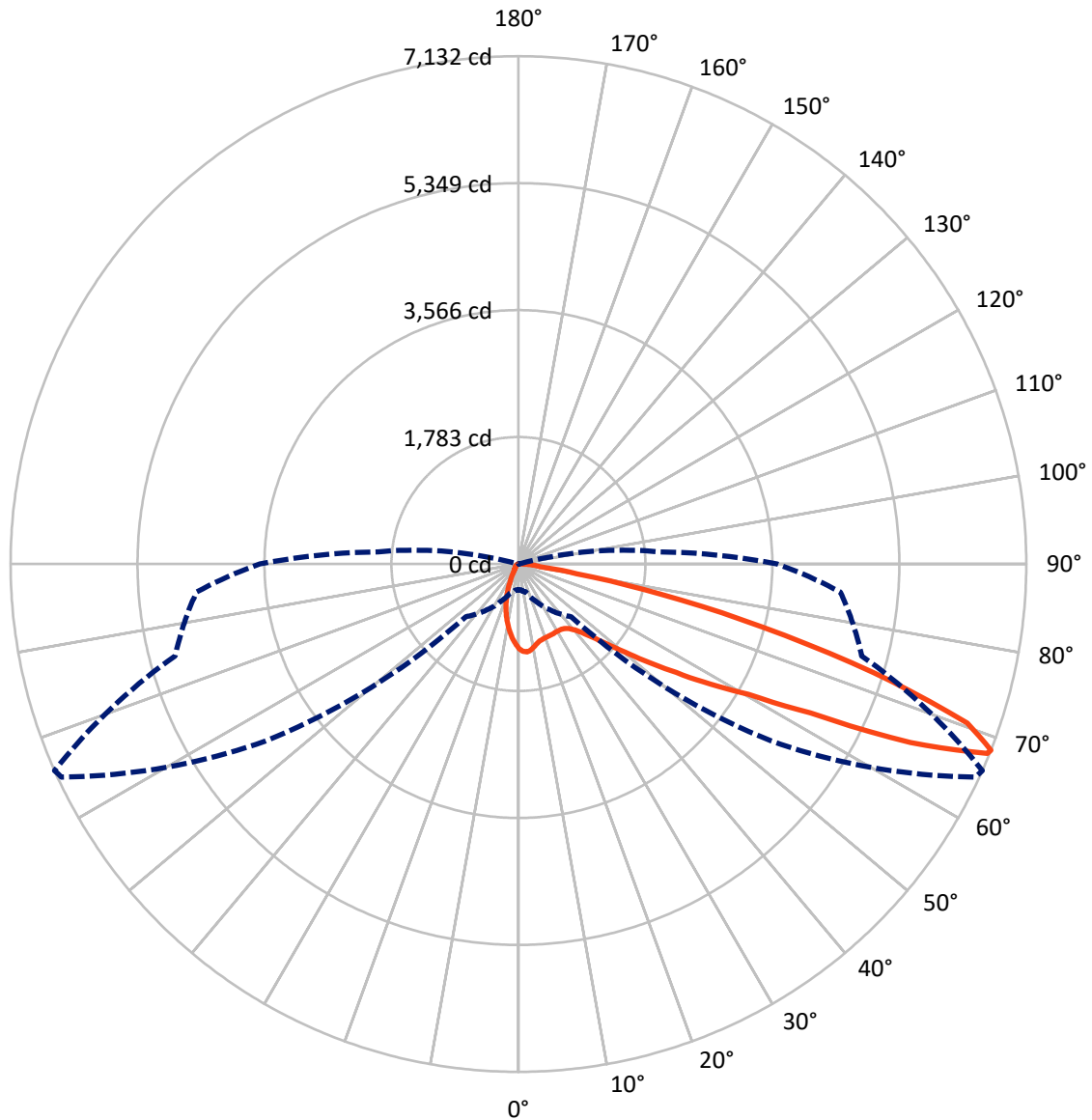


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - Semi-Cutoff

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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	541.1	0.0	541.1
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	4800.9	0.0	4800.9
	% Fixture	89.9	0.0	89.9
Total	Lumens	5342.0	0.0	5342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.8
10°-20°	209.9	3.9
20°-30°	304.2	5.7
30°-40°	465.7	8.7
40°-50°	796.5	14.9
50°-60°	1246.0	23.3
60°-70°	1434.7	26.9
70°-80°	717.9	13.4
80°-90°	69.5	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°	5342.0	100.0
0°-180°	5342.0	100.0



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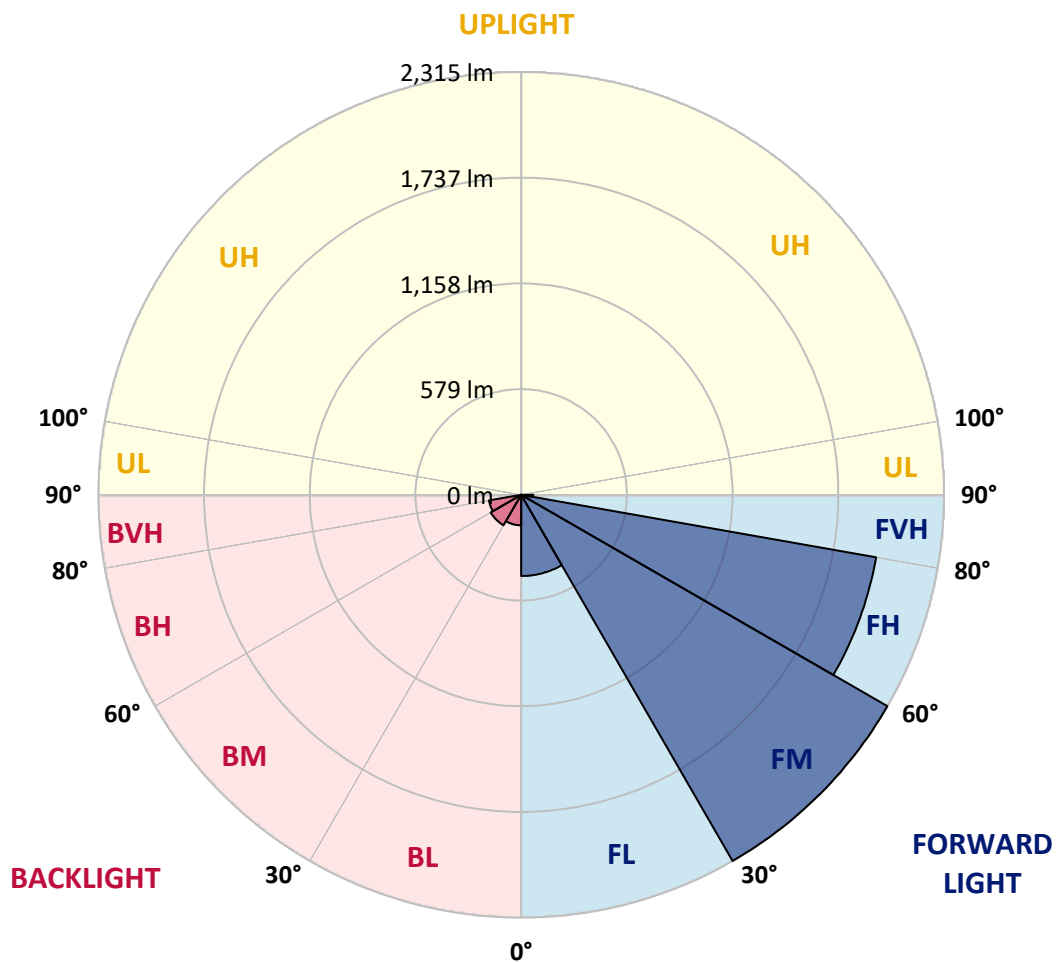
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.7	8.3			
FM (30°-60°)	2315.5	43.3			
FH (60°-80°)	1973.9	36.9			G2/5000
FVH (80°-90°)	66.9	1.3			G1/100
BL (0°-30°)	167.0	3.1	B1/500		
BM (30°-60°)	192.7	3.6	B0/220		
BH (60°-80°)	178.8	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°	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1
2.5°	1251.8	1252.6	1252.2	1253.5	1252.6	1246.3	1239.6	1225.4	1226.6	1208.2	1187.6
5°	1163.7	1170.9	1178.0	1185.1	1202.3	1217.4	1235.4	1239.6	1239.6	1223.7	1193.5
7.5°	1074.0	1074.4	1082.4	1092.0	1115.1	1142.8	1184.7	1222.4	1223.3	1227.5	1194.3
10°	1006.5	1008.6	1014.0	1024.5	1047.6	1074.8	1121.8	1180.9	1185.5	1216.6	1186.0
12.5°	954.0	956.6	962.4	974.6	995.6	1023.7	1073.1	1140.7	1147.0	1206.1	1183.4
15°	913.8	917.1	921.8	933.9	956.6	986.3	1040.4	1113.8	1121.4	1201.9	1191.4
17.5°	897.0	897.0	896.6	905.0	927.6	957.8	1014.4	1099.6	1109.2	1205.2	1204.8
20°	904.1	902.9	894.1	892.0	905.8	936.0	993.9	1090.3	1101.2	1211.5	1221.2
22.5°	941.9	939.4	919.7	903.3	899.1	919.2	980.0	1084.0	1097.0	1224.5	1243.0
25°	1022.0	1014.4	987.2	950.3	917.1	915.0	970.4	1080.7	1094.5	1239.6	1266.9
27.5°	1126.0	1123.9	1080.3	1030.8	967.0	928.9	967.5	1078.2	1092.0	1250.5	1286.2
30°	1255.1	1256.0	1205.7	1141.1	1044.6	967.9	976.7	1076.9	1091.2	1251.4	1294.6
32.5°	1388.5	1389.3	1347.4	1278.2	1150.7	1035.0	1002.7	1082.8	1095.8	1248.0	1294.1
35°	1516.8	1518.1	1492.9	1437.2	1292.5	1128.1	1051.8	1102.9	1112.1	1250.1	1293.3
37.5°	1679.1	1684.2	1653.1	1601.1	1470.3	1264.8	1131.9	1143.6	1151.1	1267.3	1299.6
40°	1955.9	1949.2	1860.3	1772.2	1663.2	1431.3	1247.6	1213.6	1216.1	1311.8	1323.5
42.5°	2278.4	2270.0	2117.8	1966.0	1861.5	1632.2	1395.6	1321.0	1320.6	1386.4	1375.5
45°	2556.0	2551.0	2390.8	2188.2	2081.3	1854.0	1578.1	1475.7	1470.7	1515.6	1470.3
47.5°	2753.1	2748.9	2627.7	2424.7	2335.4	2098.1	1805.8	1686.7	1676.2	1684.6	1624.2
50°	2772.4	2767.8	2725.4	2595.0	2632.3	2456.2	2087.2	1963.0	1949.6	1936.6	1856.9
52.5°	2592.1	2591.7	2613.9	2605.5	2840.3	2917.1	2432.3	2304.8	2288.9	2255.7	2176.5
55°	2223.5	2221.4	2305.6	2428.1	2835.7	3392.6	2958.6	2711.6	2690.6	2624.4	2520.4
57.5°	1624.6	1613.7	1789.8	2049.4	2636.5	3600.6	3794.4	3216.9	3182.1	2972.0	2811.8
60°	897.0	901.2	1127.7	1435.1	2164.7	3559.5	4563.5	3806.1	3714.7	3271.9	3110.4
62.5°	502.8	513.3	681.9	932.7	1380.1	3226.1	4976.1	4820.1	4600.0	3621.6	3487.8
65°	380.4	386.7	471.4	719.6	870.2	2254.5	5042.0	6238.0	6048.0	4151.7	4088.8
67.5°	358.1	363.2	404.7	596.8	792.6	1169.2	4546.3	7076.7	7100.6	4874.7	4554.3
68°	360.7	366.9	408.5	574.1	791.3	1045.9	4334.9	7080.9	7131.7	4991.2	4538.3
70°	331.3	333.0	431.9	563.2	767.0	824.0	3136.0	6595.7	6686.7	5130.0	4119.8
72.5°	126.6	127.1	193.7	487.7	803.5	828.7	1579.7	5213.1	5217.7	4464.5	3211.9
75°	65.8	55.4	60.8	152.6	767.4	807.7	792.6	3559.5	3537.3	3019.4	1968.1
77.5°	45.3	38.6	40.7	52.8	319.1	807.3	572.4	2046.9	2042.3	1284.5	561.5
80°	25.6	22.2	24.3	44.5	112.0	757.8	533.4	879.8	829.1	225.6	91.0
82.5°	13.0	10.9	13.0	37.3	69.6	476.8	518.7	345.1	307.4	53.7	59.1
85°	3.4	3.4	6.3	26.0	43.2	156.4	465.1	249.1	223.9	23.5	41.9
87.5°	0.8	0.4	2.5	9.6	15.5	34.0	257.9	138.8	119.5	12.2	24.3
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°	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1
2.5°	1179.2	1167.5	1144.4	1118.4	1100.0	1079.9	1068.1	1053.9	1043.0	1033.3	1040.4
5°	1175.1	1152.4	1101.2	1043.8	995.6	949.4	915.0	882.3	857.6	842.1	848.4
7.5°	1164.1	1130.6	1047.6	957.8	879.0	804.8	744.4	690.3	648.3	625.7	632.8
10°	1145.7	1098.3	986.8	862.2	751.9	647.1	557.3	476.8	416.0	387.5	394.2
12.5°	1132.3	1069.8	923.9	769.9	624.8	476.0	356.9	264.6	217.2	188.7	191.2
15°	1126.4	1047.6	865.1	672.7	486.0	305.7	192.9	139.6	123.3	117.4	117.8
17.5°	1127.2	1030.0	809.4	571.6	346.0	175.7	118.3	106.5	104.0	102.7	102.7
20°	1129.3	1012.3	751.5	466.3	221.4	113.2	98.5	94.8	93.5	91.8	92.3
22.5°	1135.6	998.9	693.2	360.7	136.3	92.3	87.2	83.9	81.8	79.3	79.7
25°	1145.3	988.9	635.8	259.6	96.0	80.5	75.9	71.3	67.5	64.6	65.0
27.5°	1151.1	974.6	574.5	177.0	79.7	70.5	64.2	57.9	53.7	51.2	50.7
30°	1147.0	951.5	504.9	116.2	70.5	60.8	53.3	46.1	41.9	39.8	39.8
32.5°	1135.6	921.8	428.2	84.7	62.5	52.4	43.2	36.9	34.0	32.7	33.1
35°	1122.6	890.7	346.4	71.7	56.2	44.5	35.2	30.2	28.9	28.5	28.5
37.5°	1115.5	863.9	268.0	65.0	50.3	36.9	28.9	26.0	24.7	24.7	24.7
40°	1123.5	843.3	198.4	60.0	44.5	30.6	24.3	22.2	21.8	21.8	21.8
42.5°	1157.4	836.2	145.1	55.8	38.6	25.6	21.0	19.3	18.9	19.3	19.3
45°	1223.7	851.7	109.9	51.6	33.1	21.0	18.0	16.8	16.8	17.2	17.2
47.5°	1336.1	891.6	90.2	47.4	27.7	17.6	15.5	14.7	14.7	15.1	15.1
50°	1510.5	965.4	80.9	42.8	23.1	15.1	13.0	12.6	12.6	13.0	13.4
52.5°	1775.6	1105.9	76.3	38.2	18.9	12.6	10.9	10.5	10.9	11.3	11.3
55°	2070.4	1285.8	70.9	33.5	15.9	10.5	8.8	8.8	9.2	10.1	10.1
57.5°	2345.1	1459.4	65.8	27.7	13.8	8.4	7.1	7.1	8.0	8.8	8.8
60°	2635.3	1629.6	59.1	22.2	11.7	6.7	5.9	5.9	7.1	8.0	8.4
62.5°	2993.8	1827.6	50.3	17.6	9.2	5.0	4.2	5.5	6.7	8.0	8.0
65°	3512.2	2073.7	39.4	13.8	7.1	3.8	3.4	5.0	6.3	7.5	8.0
67.5°	3700.4	2042.3	29.8	11.3	5.5	2.9	2.9	4.6	6.3	7.5	7.5
68°	3631.7	1973.5	28.5	10.9	5.0	2.9	2.9	4.6	6.3	7.5	7.5
70°	3164.5	1613.3	23.5	8.4	4.2	2.5	2.5	4.2	6.3	7.1	7.5
72.5°	2369.4	1071.9	20.1	5.5	3.8	2.5	2.1	4.2	5.9	7.1	7.1
75°	1359.1	444.9	17.2	4.2	3.4	2.1	2.1	3.8	5.9	7.1	7.1
77.5°	384.1	104.0	13.8	3.4	2.9	2.1	1.7	3.8	5.5	6.7	6.7
80°	70.5	31.0	10.9	2.9	2.5	2.1	1.7	3.8	5.5	6.7	6.7
82.5°	46.5	14.7	8.0	2.9	2.5	2.1	1.7	3.4	5.0	6.3	6.3
85°	34.8	10.5	5.0	2.9	2.5	2.1	1.7	3.4	5.0	6.3	6.3
87.5°	19.3	4.6	3.8	3.4	2.9	2.1	1.7	2.9	4.6	5.9	5.9
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)