

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P363545

Luminaire Tested: NVN-SA1C-830-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P363545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: NVN-SA1C-830-U-SL2-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 4705 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

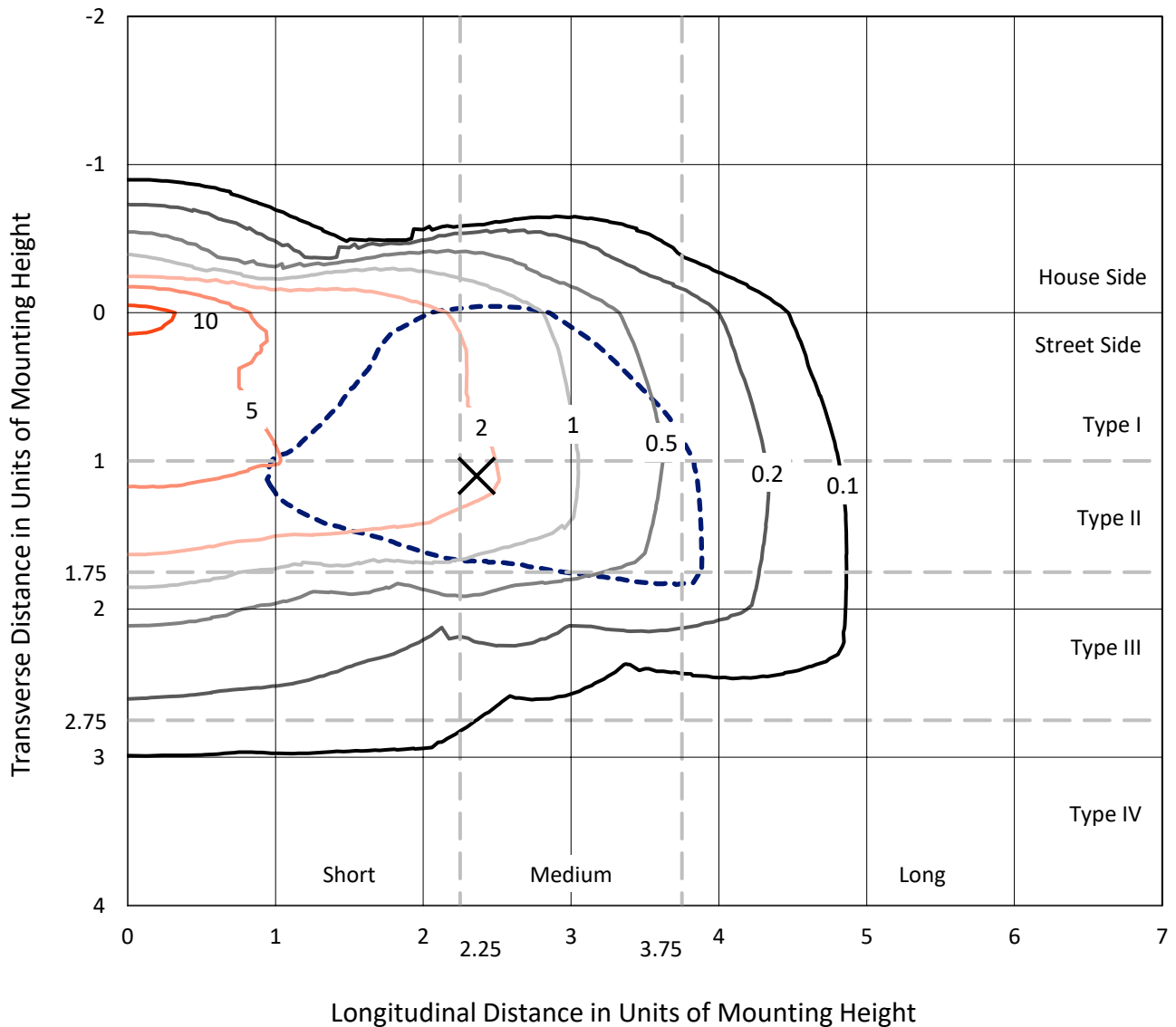
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

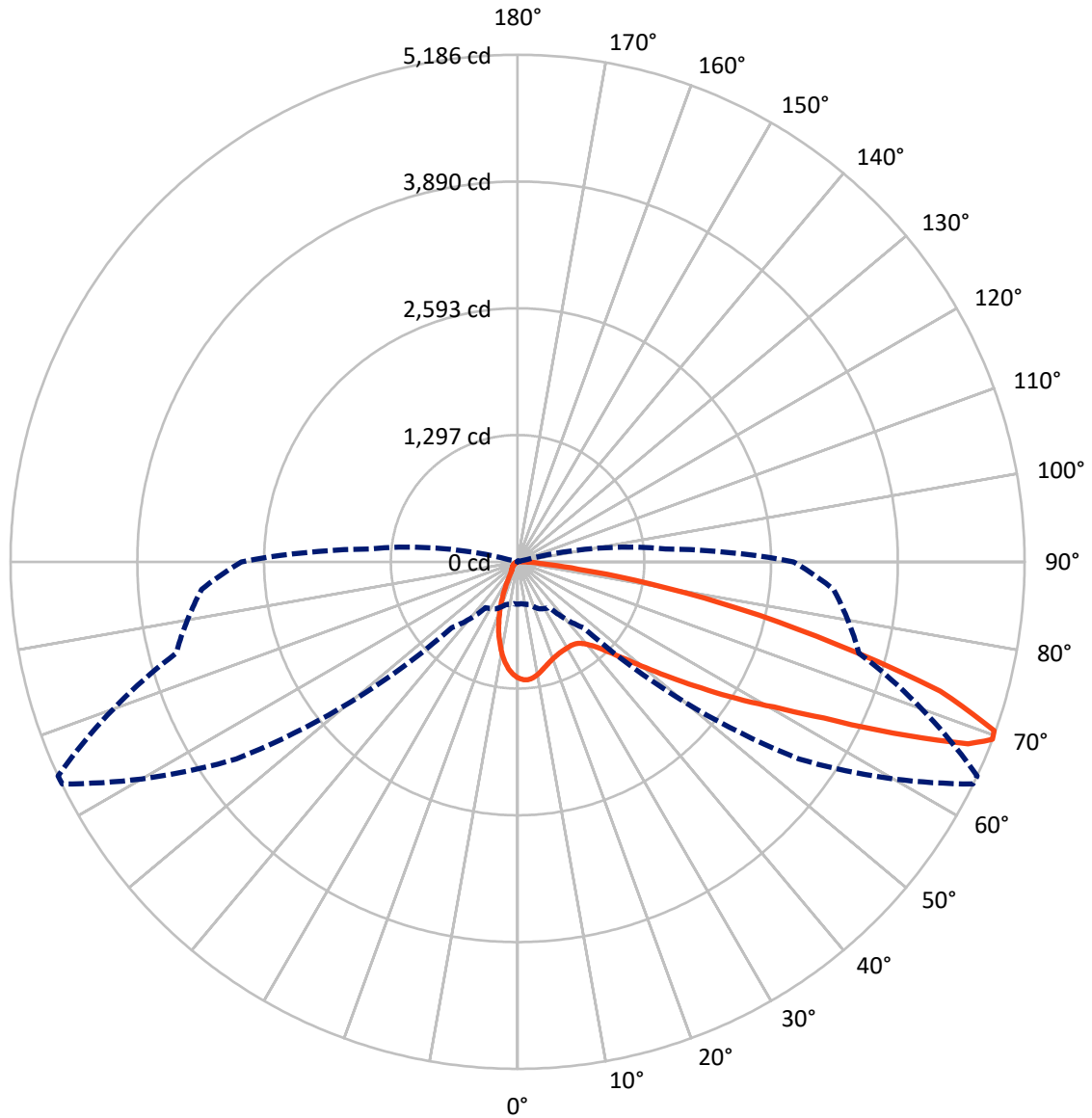
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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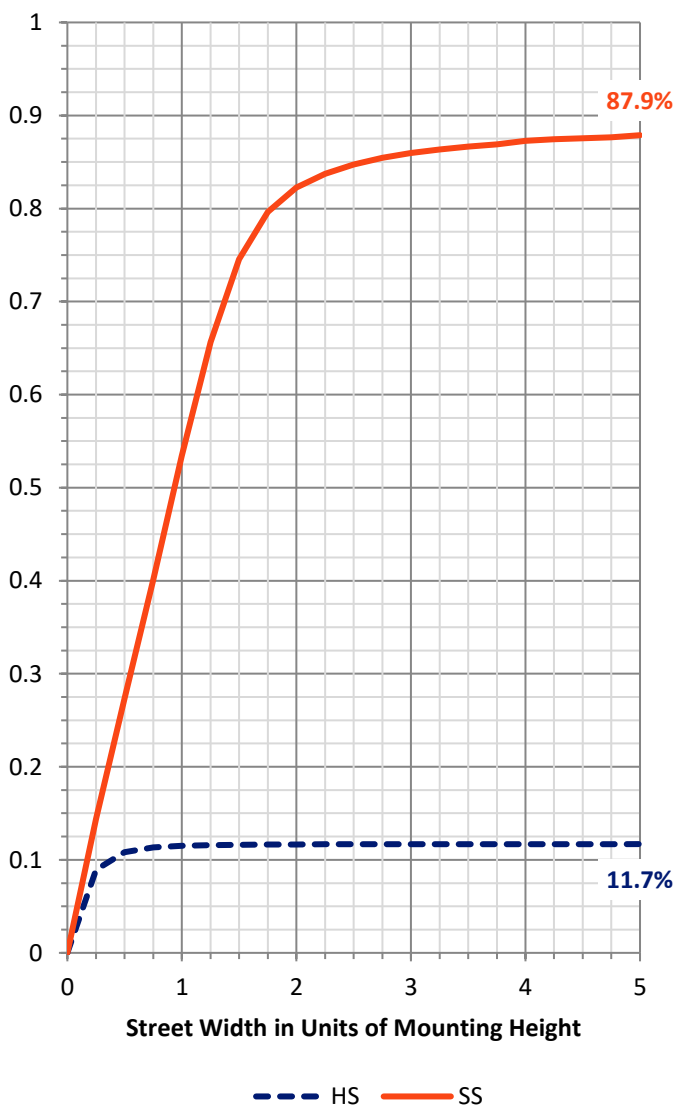
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.6	0.0	554.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4150.4	0.0	4150.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	4705.0	0.0	4705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	2.1
10°-20°	217.6	4.6
20°-30°	301.4	6.4
30°-40°	420.3	8.9
40°-50°	653.3	13.9
50°-60°	1048.8	22.3
60°-70°	1186.3	25.2
70°-80°	696.8	14.8
80°-90°	81.1	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°	4705.0	100.0
0°-180°	4705.0	100.0

Coefficient of Utilization

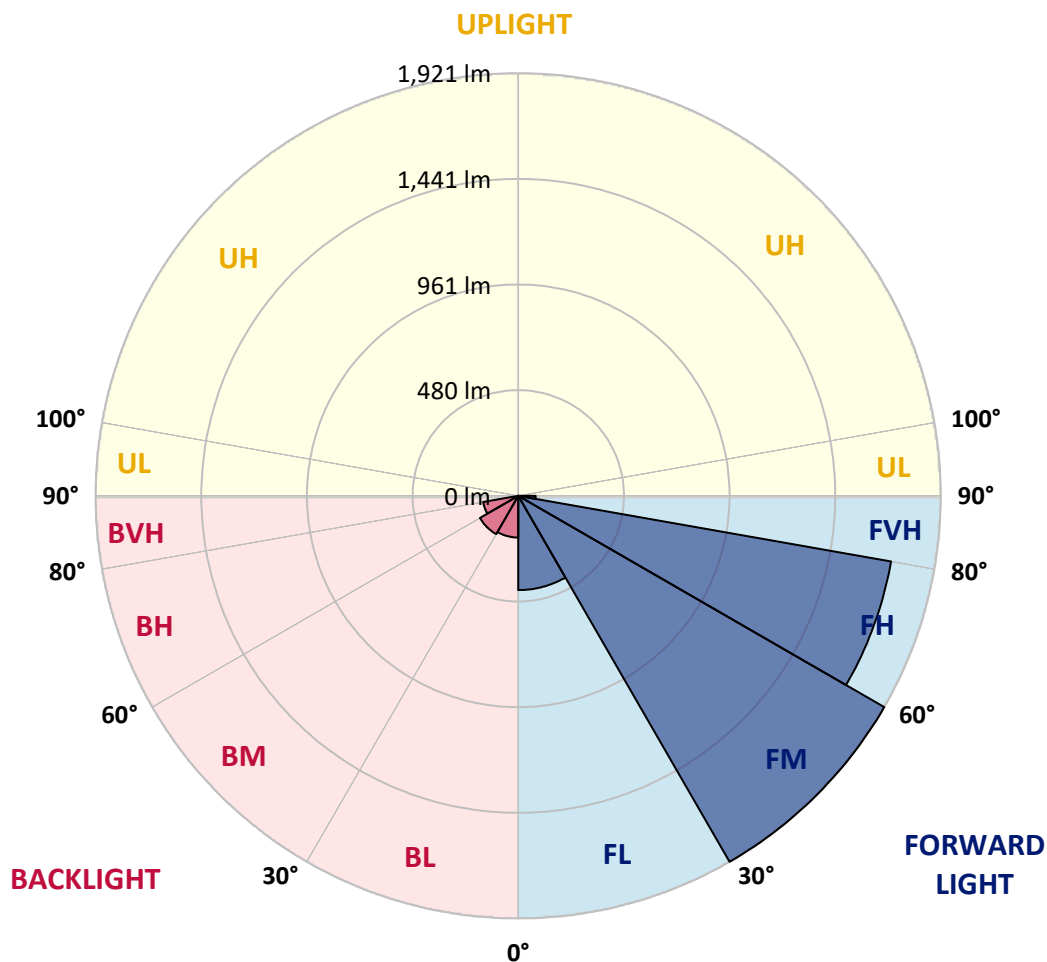


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.7	9.1			
FM (30°-60°)	1921.4	40.8			
FH (60°-80°)	1721.0	36.6			G1/1800
FVH (80°-90°)	79.2	1.7			G1/100
BL (0°-30°)	189.8	4.0	B1/500		
BM (30°-60°)	201.0	4.3	B0/220		
BH (60°-80°)	162.1	3.4	B1/500		G1/500
BVH (80°-90°)	1.8	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1199.5	1196.5	1198.9	1204.1	1206.7	1206.7	1208.7	1206.3	1207.1	1201.3	1192.9
5°	1124.5	1119.9	1126.4	1141.0	1158.9	1174.2	1196.9	1208.9	1210.1	1210.3	1200.5
7.5°	1043.6	1039.4	1049.2	1066.3	1089.4	1117.9	1157.5	1192.1	1194.1	1212.9	1205.7
10°	977.9	974.9	986.3	1004.6	1031.7	1063.5	1112.1	1160.3	1166.1	1207.5	1204.9
12.5°	925.8	923.4	934.1	955.2	982.9	1018.1	1068.9	1124.9	1132.6	1195.3	1200.9
15°	887.7	887.3	896.3	916.6	947.3	980.1	1032.1	1092.0	1101.0	1182.2	1200.3
17.5°	867.8	868.4	875.0	892.3	918.6	951.2	1001.0	1064.3	1074.1	1170.4	1203.3
20°	865.8	866.4	870.0	879.8	901.1	929.9	975.7	1041.0	1051.2	1161.7	1208.1
22.5°	883.4	883.0	884.0	883.0	894.9	916.8	959.0	1023.1	1034.9	1155.9	1211.9
25°	917.0	916.4	916.0	908.6	900.7	912.4	952.0	1013.0	1024.1	1151.7	1214.0
27.5°	963.8	963.4	962.8	950.7	926.8	919.4	952.8	1009.2	1018.5	1148.3	1213.6
30°	1025.3	1028.1	1027.3	1010.4	973.1	940.7	961.2	1007.2	1015.4	1141.8	1209.5
32.5°	1097.6	1103.2	1107.5	1089.4	1042.8	982.9	980.5	1009.4	1015.4	1136.8	1201.9
35°	1172.6	1179.8	1195.9	1189.6	1128.2	1046.4	1013.8	1022.5	1027.5	1139.6	1198.3
37.5°	1246.5	1255.1	1290.1	1308.6	1240.1	1130.4	1065.5	1055.0	1057.6	1156.5	1202.3
40°	1332.3	1345.2	1398.4	1428.3	1373.7	1242.9	1143.0	1110.7	1111.7	1193.7	1220.8
42.5°	1445.0	1458.3	1515.9	1562.7	1524.2	1385.1	1248.1	1195.9	1194.9	1263.4	1264.4
45°	1582.4	1596.3	1655.8	1707.8	1690.5	1553.5	1382.7	1320.4	1319.2	1373.3	1347.0
47.5°	1738.1	1751.8	1804.9	1858.5	1877.2	1750.2	1554.1	1490.2	1487.4	1526.0	1474.7
50°	1871.6	1880.6	1929.6	2001.6	2086.1	1991.9	1767.3	1705.8	1702.8	1728.9	1662.0
52.5°	1920.2	1925.4	1975.2	2076.1	2286.7	2319.2	2047.4	1968.2	1966.0	1977.4	1911.5
55°	1821.9	1831.2	1892.3	2042.1	2395.4	2689.1	2401.0	2293.1	2276.6	2252.1	2172.3
57.5°	1553.9	1568.8	1634.5	1833.6	2344.7	2982.6	2920.6	2660.6	2636.3	2486.6	2384.3
60°	1164.3	1182.6	1237.1	1452.0	2073.7	3087.1	3488.4	3070.2	3015.4	2673.4	2579.2
62.5°	798.9	808.1	845.1	985.1	1527.2	2915.9	3963.5	3618.6	3518.7	2876.4	2790.0
65°	610.2	613.4	628.5	676.7	909.4	2368.6	4152.4	4342.3	4221.5	3119.3	3008.8
67.5°	491.8	489.2	510.1	579.0	609.0	1445.0	3932.0	5027.0	4970.5	3444.0	3229.0
69°	433.6	430.0	451.3	531.4	572.0	955.2	3515.1	5182.5	5186.1	3615.5	3244.2
70°	390.2	392.6	413.7	503.1	559.4	749.8	3116.9	5142.9	5171.1	3679.6	3153.4
72.5°	260.6	267.0	309.4	417.7	537.9	567.4	1882.0	4413.2	4521.9	3535.2	2705.4
75°	146.9	151.7	202.1	315.0	506.9	540.3	994.1	3251.3	3356.4	2956.3	2086.3
77.5°	72.1	74.7	114.3	203.3	423.9	514.8	563.8	2208.5	2328.5	1929.6	1180.0
80°	30.5	31.9	57.1	125.4	303.0	491.4	418.7	1359.2	1374.1	755.9	314.4
82.5°	11.7	12.1	24.1	78.2	192.5	383.0	350.2	644.5	628.9	142.3	71.7
85°	1.4	1.6	8.8	47.0	107.1	197.1	284.5	277.7	257.0	28.3	36.8
87.5°	0.0	0.0	0.6	14.3	31.9	92.4	147.9	115.3	103.9	9.2	19.1
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°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1186.0	1184.0	1173.2	1157.7	1143.0	1124.7	1107.1	1096.6	1088.2	1082.6	1089.2
5°	1189.2	1180.4	1147.8	1105.9	1064.9	1018.7	975.7	939.3	925.0	909.0	916.2
7.5°	1188.2	1171.6	1112.9	1038.5	963.2	885.4	811.7	754.9	725.5	696.6	704.0
10°	1183.2	1155.3	1066.3	956.0	843.3	731.5	626.9	547.5	503.1	462.9	468.7
12.5°	1172.2	1133.4	1011.4	861.7	710.9	563.4	441.0	339.2	284.7	260.6	263.6
15°	1165.7	1112.1	953.2	766.1	569.6	392.4	269.6	200.5	175.6	167.6	168.6
17.5°	1162.5	1091.6	893.1	656.8	425.1	249.9	174.2	153.7	148.3	146.9	147.3
20°	1159.3	1070.9	831.2	548.7	292.9	168.0	143.1	137.2	135.2	133.4	133.8
22.5°	1153.9	1051.0	764.7	439.2	197.5	136.4	129.0	123.2	119.1	116.9	117.3
25°	1147.4	1030.1	696.8	327.1	144.1	121.6	114.7	106.5	101.5	97.6	97.8
27.5°	1136.8	1004.4	626.7	238.1	121.0	108.9	99.5	90.6	82.2	77.6	77.6
30°	1122.1	975.3	548.9	170.4	108.5	96.4	85.0	73.9	64.9	60.7	60.3
32.5°	1105.7	945.1	470.2	129.2	98.5	84.6	71.7	59.9	52.0	48.6	48.4
35°	1091.8	912.4	391.8	108.3	88.6	73.3	59.1	49.2	42.8	40.0	39.8
37.5°	1082.8	879.8	315.4	96.8	79.6	62.7	49.6	40.6	36.0	33.8	33.6
40°	1081.5	855.5	245.5	88.0	71.3	53.4	41.4	34.4	30.3	27.9	27.7
42.5°	1099.6	841.6	188.3	80.6	62.7	45.2	35.2	29.5	25.1	22.7	22.5
45°	1147.2	845.9	144.9	74.1	54.2	38.2	29.9	24.5	20.5	18.7	18.3
47.5°	1234.0	876.2	115.3	67.5	46.0	32.5	25.5	20.3	16.9	15.1	14.9
50°	1388.4	947.3	96.4	60.3	38.4	27.7	21.1	16.5	13.7	12.1	11.9
52.5°	1593.5	1073.9	86.0	53.4	31.9	23.5	17.3	13.1	10.8	9.6	9.4
55°	1819.7	1227.2	79.2	45.8	26.1	19.5	13.7	10.4	8.4	7.4	7.0
57.5°	2040.5	1360.0	72.9	38.4	21.7	15.9	10.9	8.2	6.6	5.6	5.4
60°	2243.3	1482.0	65.5	30.9	17.7	12.5	8.6	6.4	5.2	4.2	4.2
62.5°	2460.5	1576.4	55.3	24.1	14.5	9.6	7.0	5.8	4.2	3.6	3.4
65°	2690.7	1646.5	43.4	18.7	11.3	7.2	5.8	6.0	3.4	2.6	2.4
67.5°	2860.7	1632.5	32.1	14.7	8.8	5.6	5.6	6.4	3.0	2.0	1.8
69°	2823.3	1519.3	26.9	12.7	7.6	4.8	5.2	6.4	2.8	1.8	1.6
70°	2714.8	1393.8	23.7	11.3	6.8	4.4	5.0	6.2	2.6	1.8	1.6
72.5°	2260.9	1049.8	18.5	8.6	5.4	3.6	4.2	5.4	2.6	1.8	1.4
75°	1700.6	671.9	14.1	6.2	4.0	2.8	3.2	4.0	2.6	1.6	1.4
77.5°	925.4	242.3	10.2	4.2	2.8	2.2	2.2	3.0	2.4	1.2	0.8
80°	237.9	60.9	6.4	2.8	2.2	1.6	1.4	2.0	1.4	0.2	0.0
82.5°	58.7	13.7	3.4	2.0	1.6	0.6	0.6	1.0	0.6	0.0	0.0
85°	32.3	6.8	2.2	1.4	0.8	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	16.5	2.0	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
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)