

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: P507708

Luminaire Tested: **VERD-S-CA1-70-760-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-760-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1330mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8782 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

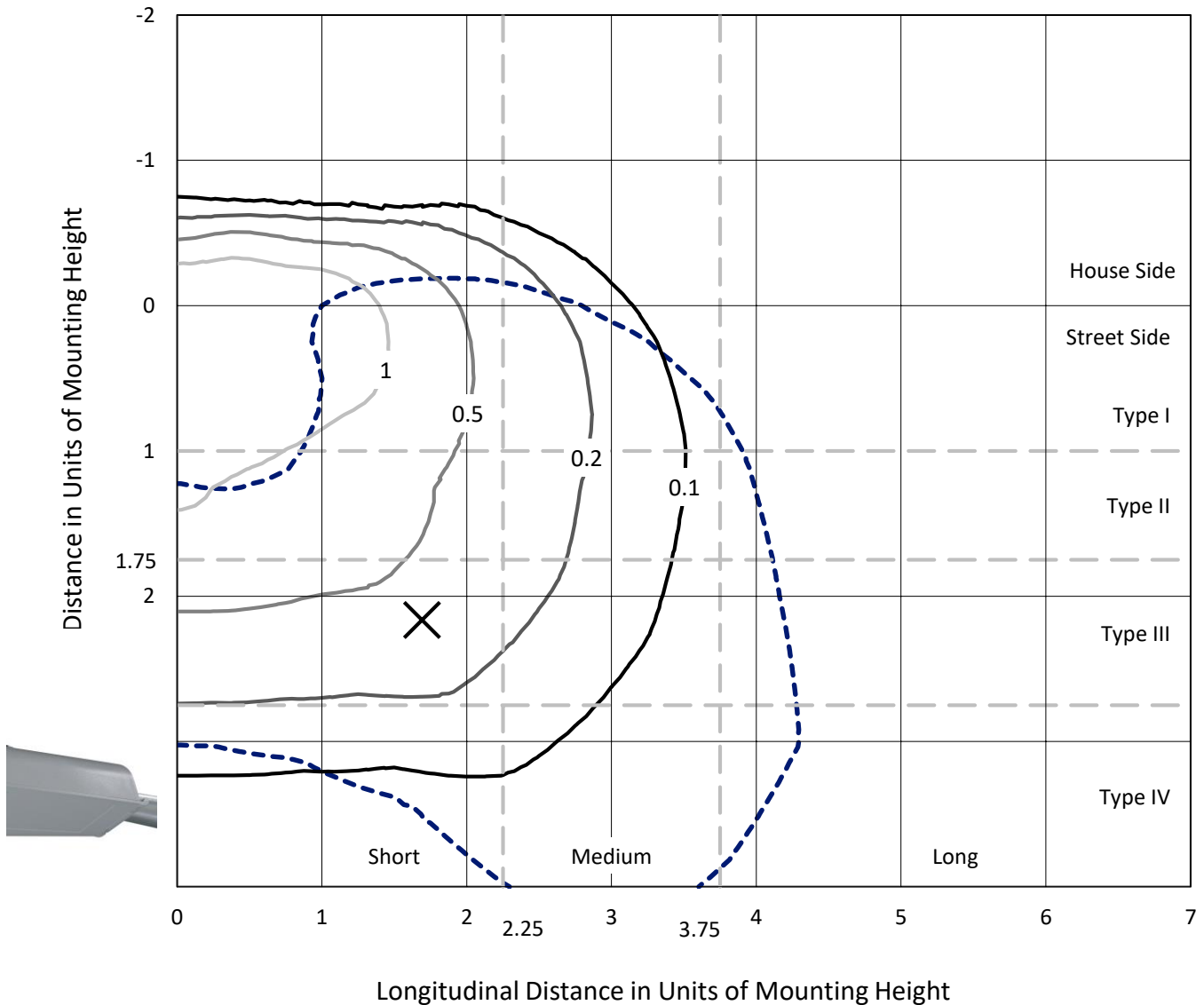
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

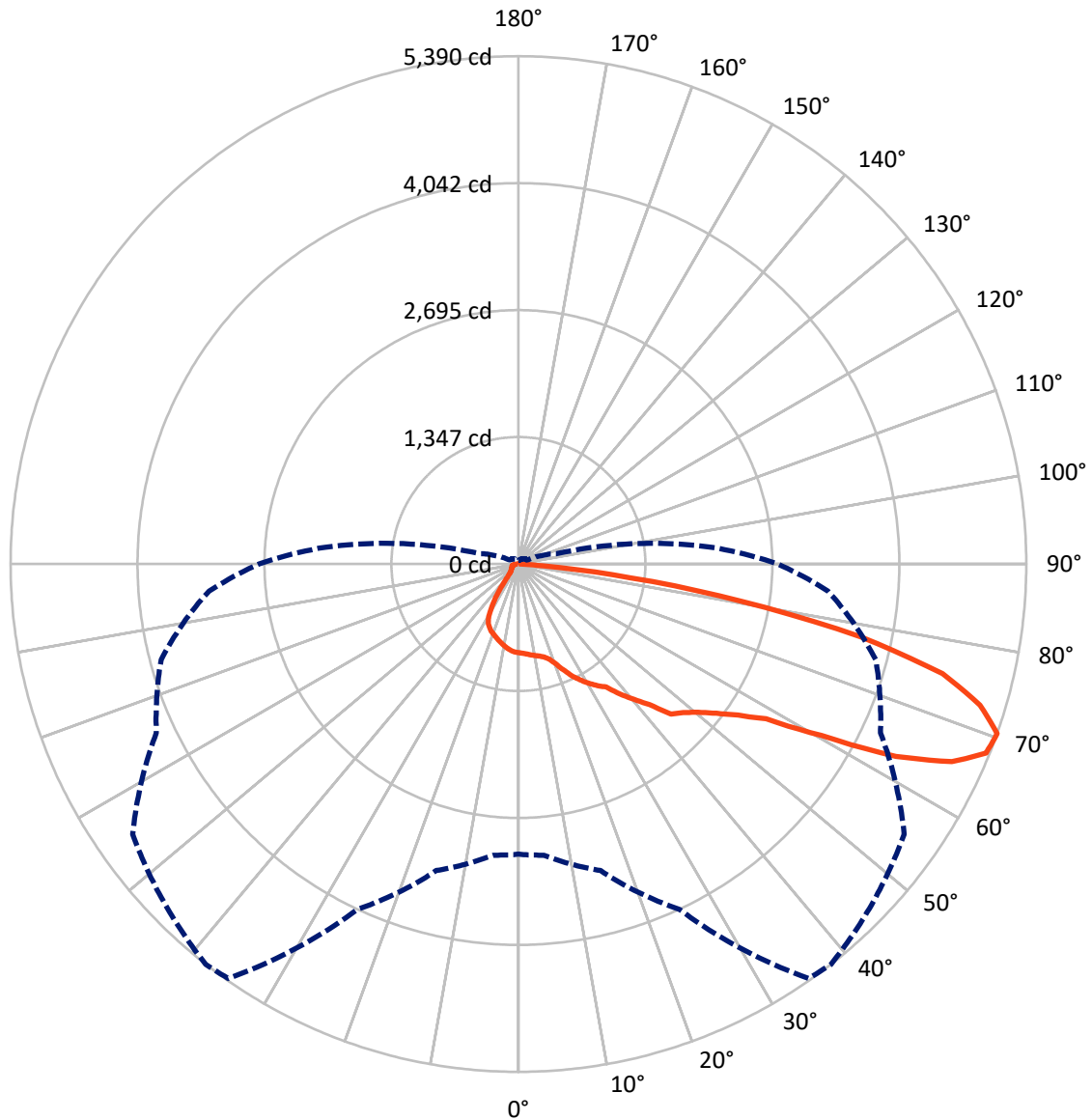
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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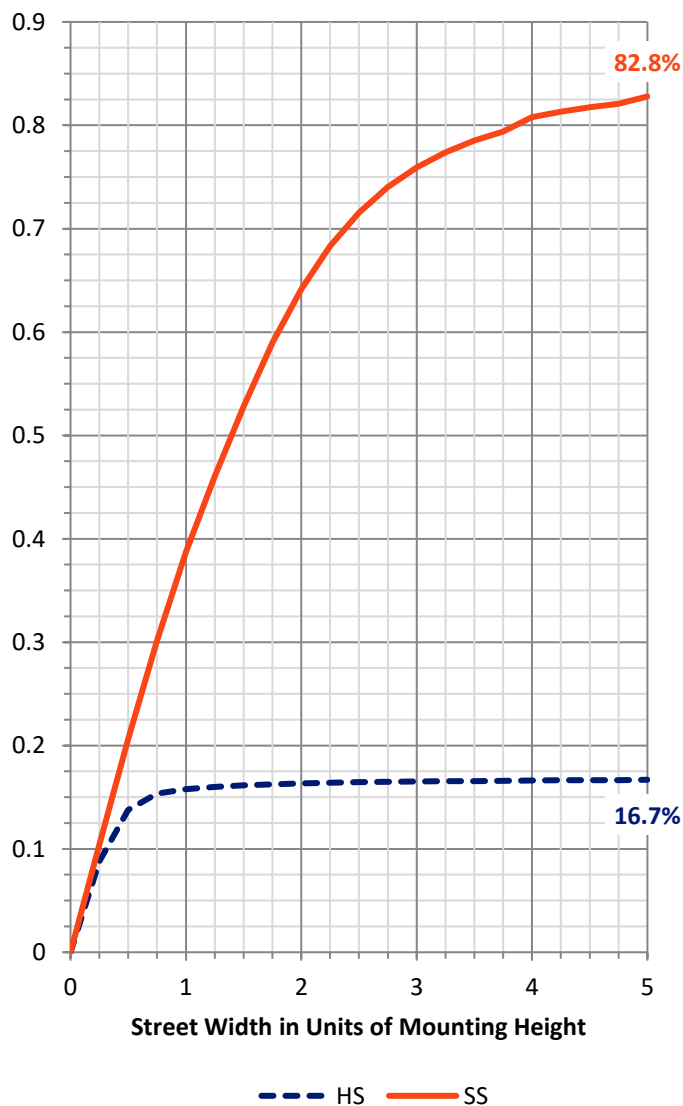
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.7	0.0	1485.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7296.3	0.0	7296.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	8782.0	0.0	8782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.0
10°-20°	272.7	3.1
20°-30°	502.1	5.7
30°-40°	786.0	9.0
40°-50°	1194.1	13.6
50°-60°	1717.0	19.6
60°-70°	2306.7	26.3
70°-80°	1709.0	19.5
80°-90°	204.4	2.3
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°	8782.0	100.0
0°-180°	8782.0	100.0

Coefficient of Utilization



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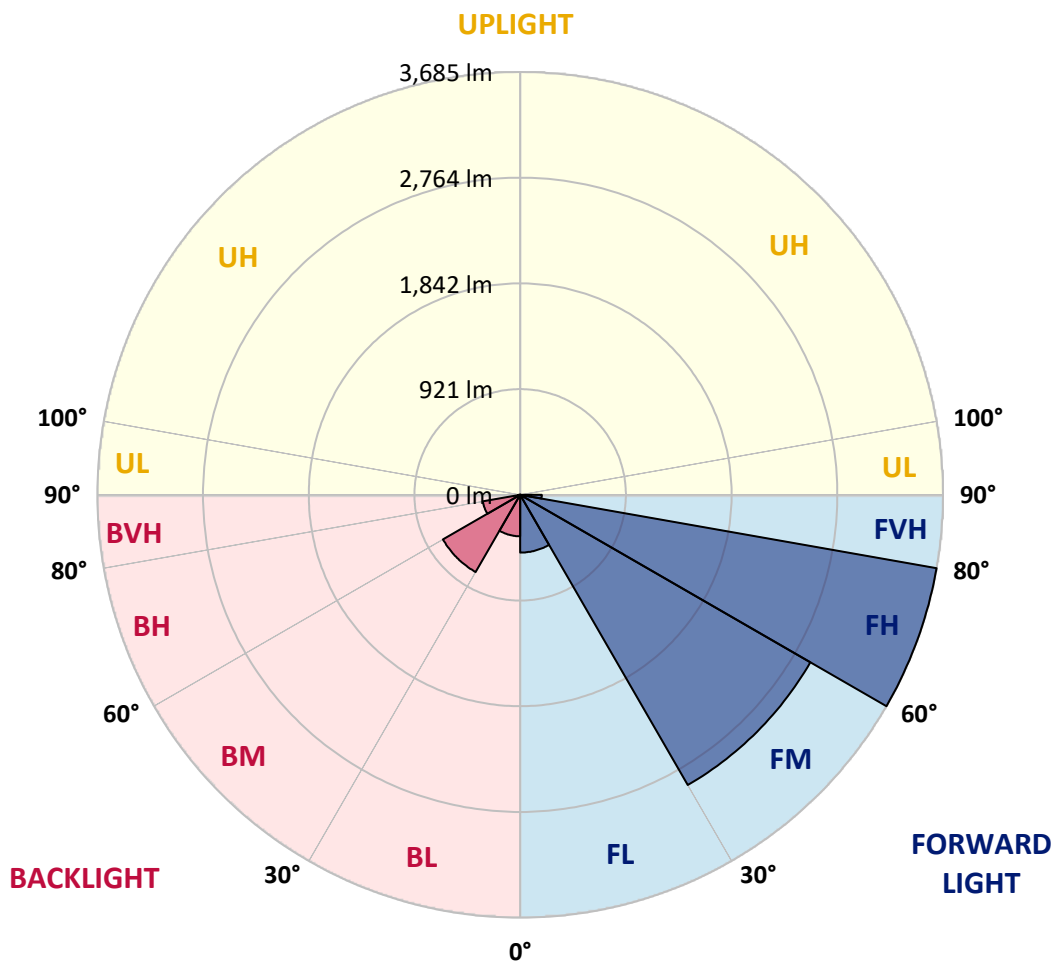
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.5	5.7			
FM	(30°-60°)	2919.9	33.2			
FH	(60°-80°)	3684.9	42.0			G2/5000
FVH	(80°-90°)	188.0	2.1			G2/225
BL	(0°-30°)	361.4	4.1	B1/500		
BM	(30°-60°)	777.2	8.8	B1/1000		
BH	(60°-80°)	330.8	3.8	B1/500		G1/500
BVH	(80°-90°)	16.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	955.2	955.2	955.2	952.4	952.4	949.6	949.6	946.9	946.9	944.1	941.3
5°	969.1	969.1	966.3	963.5	960.7	960.7	960.7	958.0	952.4	952.4	946.9
7.5°	974.6	974.6	974.6	974.6	974.6	974.6	974.6	971.8	969.1	966.3	960.7
10°	977.4	977.4	980.2	980.2	985.7	988.5	988.5	991.3	988.5	982.9	977.4
12.5°	985.7	988.5	988.5	991.3	999.6	1002.4	1005.2	1013.5	1013.5	1007.9	1002.4
15°	1002.4	1002.4	1005.2	1010.7	1021.8	1024.6	1032.9	1041.3	1046.8	1041.3	1035.7
17.5°	1052.4	1052.4	1052.4	1052.4	1057.9	1060.7	1071.8	1085.7	1091.2	1091.2	1088.5
20°	1152.3	1152.3	1146.8	1135.7	1130.1	1130.1	1127.3	1132.9	1144.0	1152.3	1155.1
22.5°	1266.2	1263.4	1260.6	1244.0	1224.5	1219.0	1213.4	1207.9	1213.4	1227.3	1232.9
25°	1355.0	1357.8	1355.0	1332.8	1316.2	1313.4	1305.0	1307.8	1307.8	1310.6	1318.9
27.5°	1427.2	1432.8	1421.7	1410.6	1399.5	1391.1	1396.7	1405.0	1418.9	1413.3	1430.0
30°	1507.7	1505.0	1493.9	1480.0	1471.6	1468.9	1466.1	1496.6	1535.5	1552.2	1571.6
32.5°	1652.1	1649.4	1627.1	1557.7	1538.3	1538.3	1543.8	1582.7	1643.8	1696.6	1746.5
35°	1785.4	1785.4	1757.6	1710.4	1627.1	1602.2	1616.0	1663.2	1752.1	1857.6	1938.1
37.5°	1943.7	1946.5	1915.9	1843.7	1777.1	1752.1	1685.5	1752.1	1860.4	2063.1	2163.0
40°	2126.9	2121.4	2071.4	1993.7	1907.6	1888.1	1832.6	1846.5	1999.2	2304.7	2401.8
42.5°	2229.7	2224.1	2190.8	2129.7	2060.3	2038.1	1988.1	1974.2	2185.3	2571.2	2635.1
45°	2329.6	2335.2	2332.4	2301.9	2285.2	2271.3	2243.6	2246.3	2415.7	2835.0	2837.8
47.5°	2388.0	2399.1	2354.6	2351.9	2354.6	2354.6	2393.5	2471.3	2635.1	3059.9	3015.5
50°	2560.1	2549.0	2412.9	2418.5	2454.6	2471.3	2543.4	2657.3	2940.5	3254.3	3168.2
52.5°	2907.2	2829.4	2657.3	2574.0	2587.9	2629.5	2715.6	2879.4	3246.0	3445.9	3304.3
55°	3295.9	3262.6	3084.9	2871.1	2776.7	2829.4	2921.1	3093.2	3487.5	3609.7	3418.1
57.5°	3565.3	3579.2	3584.7	3412.6	3082.1	3098.8	3157.1	3307.0	3704.1	3776.3	3504.2
60°	3826.3	3845.7	3951.2	3926.2	3817.9	3695.8	3468.1	3518.1	3890.1	3895.7	3570.8
62.5°	4034.5	4045.6	4215.0	4292.8	4487.1	4495.5	4126.2	3809.6	4079.0	3981.8	3595.8
65°	3929.0	3959.6	4206.7	4442.7	4995.3	5056.4	4912.0	4181.7	4223.3	4020.6	3579.2
67.5°	3573.6	3623.6	3856.8	4398.3	5311.8	5353.5	5225.7	4856.4	4276.1	4006.8	3487.5
70°	3079.3	3101.6	3368.1	4042.9	5370.1	5389.6	5231.3	4998.0	4240.0	3926.2	3295.9
72.5°	2504.6	2529.6	2760.0	3476.4	5106.3	5123.0	5081.3	4887.0	4153.9	3776.3	2907.2
75°	1879.8	1918.7	2138.1	2715.6	4509.3	4651.0	4737.0	4653.7	3915.1	3279.3	2213.0
77.5°	1241.2	1244.0	1466.1	2052.0	3573.6	3715.2	3729.1	3659.7	2779.5	2057.5	982.9
80°	533.1	583.1	858.0	1377.2	2374.1	2399.1	2426.8	2243.6	1424.4	635.9	108.3
82.5°	177.7	197.1	361.0	727.5	1169.0	1196.8	1146.8	994.1	399.8	86.1	61.1
85°	75.0	83.3	111.1	199.9	283.2	258.2	241.6	197.1	55.5	50.0	38.9
87.5°	2.8	2.8	2.8	2.8	5.6	2.8	5.6	5.6	8.3	8.3	11.1
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°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	941.3	941.3	941.3	938.5	938.5	935.7	935.7	933.0	933.0	933.0	933.0
5°	946.9	946.9	941.3	938.5	933.0	927.4	921.9	916.3	910.8	910.8	910.8
7.5°	958.0	955.2	946.9	935.7	924.6	910.8	902.4	891.3	885.8	880.2	883.0
10°	974.6	969.1	958.0	941.3	919.1	896.9	877.4	860.8	852.4	844.1	841.3
12.5°	996.8	991.3	974.6	949.6	916.3	883.0	852.4	827.5	810.8	802.5	799.7
15°	1030.2	1021.8	999.6	963.5	916.3	866.3	824.7	788.6	760.8	744.2	744.2
17.5°	1082.9	1074.6	1044.0	994.1	927.4	858.0	794.1	733.0	696.9	677.5	674.7
20°	1152.3	1141.2	1105.1	1032.9	946.9	855.2	760.8	683.1	622.0	588.7	585.9
22.5°	1232.9	1224.5	1169.0	1074.6	966.3	849.7	735.8	633.1	547.0	485.9	472.0
25°	1327.3	1313.4	1230.1	1107.9	971.8	835.8	699.7	580.3	460.9	386.0	372.1
27.5°	1438.3	1407.8	1285.6	1132.9	969.1	808.0	658.1	505.4	349.9	294.3	286.0
30°	1557.7	1505.0	1341.1	1149.5	952.4	763.6	585.9	377.6	252.7	219.4	211.0
32.5°	1693.8	1610.5	1391.1	1152.3	916.3	702.5	463.7	258.2	180.5	161.0	158.3
35°	1857.6	1743.8	1443.9	1141.2	863.6	602.5	322.1	174.9	133.3	127.7	127.7
37.5°	2071.4	1913.1	1502.2	1107.9	783.0	466.5	213.8	119.4	116.6	119.4	119.4
40°	2296.3	2107.5	1574.4	1057.9	680.3	336.0	136.1	111.1	111.1	113.8	113.8
42.5°	2510.1	2293.5	1666.0	991.3	563.7	216.6	111.1	105.5	102.7	105.5	108.3
45°	2690.6	2468.5	1754.9	919.1	430.4	138.8	108.3	100.0	94.4	97.2	97.2
47.5°	2851.7	2601.8	1804.8	833.0	302.7	108.3	108.3	91.6	86.1	86.1	88.9
50°	2987.7	2707.3	1832.6	733.0	191.6	105.5	97.2	86.1	80.5	80.5	77.7
52.5°	3101.6	2785.0	1829.8	622.0	125.0	102.7	91.6	80.5	72.2	75.0	75.0
55°	3187.6	2846.1	1788.2	477.6	105.5	97.2	88.9	75.0	69.4	75.0	75.0
57.5°	3254.3	2873.9	1710.4	333.2	102.7	88.9	83.3	69.4	63.9	66.6	66.6
60°	3287.6	2860.0	1588.3	208.3	100.0	86.1	77.7	63.9	58.3	55.5	58.3
62.5°	3276.5	2810.0	1413.3	138.8	94.4	80.5	72.2	61.1	52.8	47.2	47.2
65°	3209.9	2698.9	1205.1	116.6	91.6	80.5	69.4	58.3	47.2	44.4	44.4
67.5°	3059.9	2468.5	894.1	108.3	91.6	77.7	66.6	55.5	47.2	41.7	41.7
70°	2751.7	2054.8	430.4	100.0	91.6	80.5	66.6	52.8	44.4	38.9	38.9
72.5°	2226.9	1452.2	111.1	86.1	88.9	80.5	69.4	52.8	41.7	36.1	36.1
75°	1452.2	696.9	94.4	69.4	80.5	75.0	66.6	52.8	41.7	33.3	33.3
77.5°	472.0	97.2	86.1	61.1	72.2	72.2	66.6	52.8	41.7	30.5	30.5
80°	75.0	69.4	75.0	47.2	52.8	61.1	52.8	50.0	38.9	27.8	27.8
82.5°	52.8	63.9	55.5	38.9	47.2	50.0	41.7	33.3	27.8	25.0	25.0
85°	38.9	41.7	33.3	30.5	36.1	41.7	33.3	25.0	22.2	22.2	22.2
87.5°	13.9	16.7	16.7	22.2	27.8	30.5	19.4	13.9	16.7	16.7	16.7
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)