

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: P509304

Luminaire Tested: **VERD-CA2-70-727-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8073 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

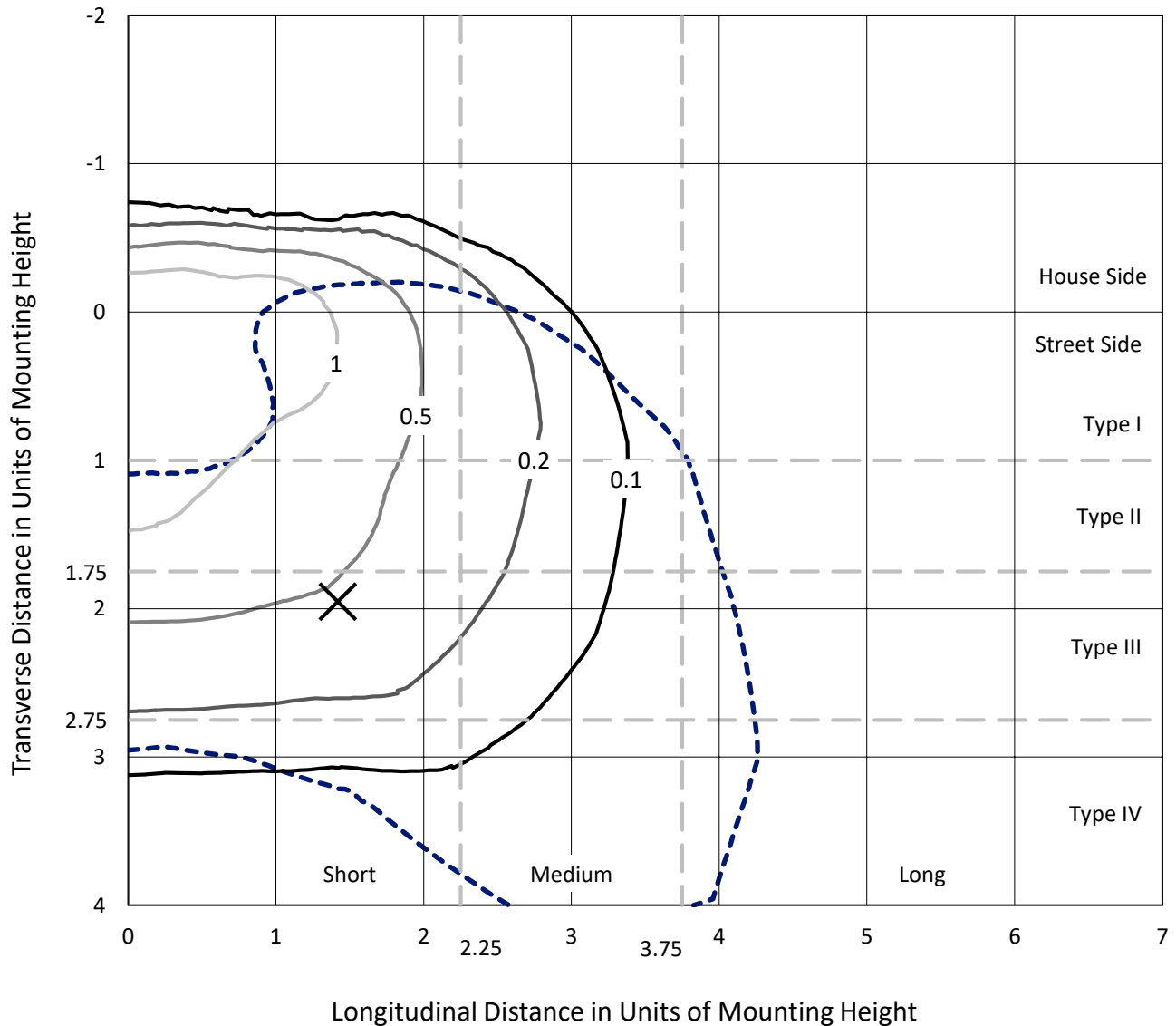
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

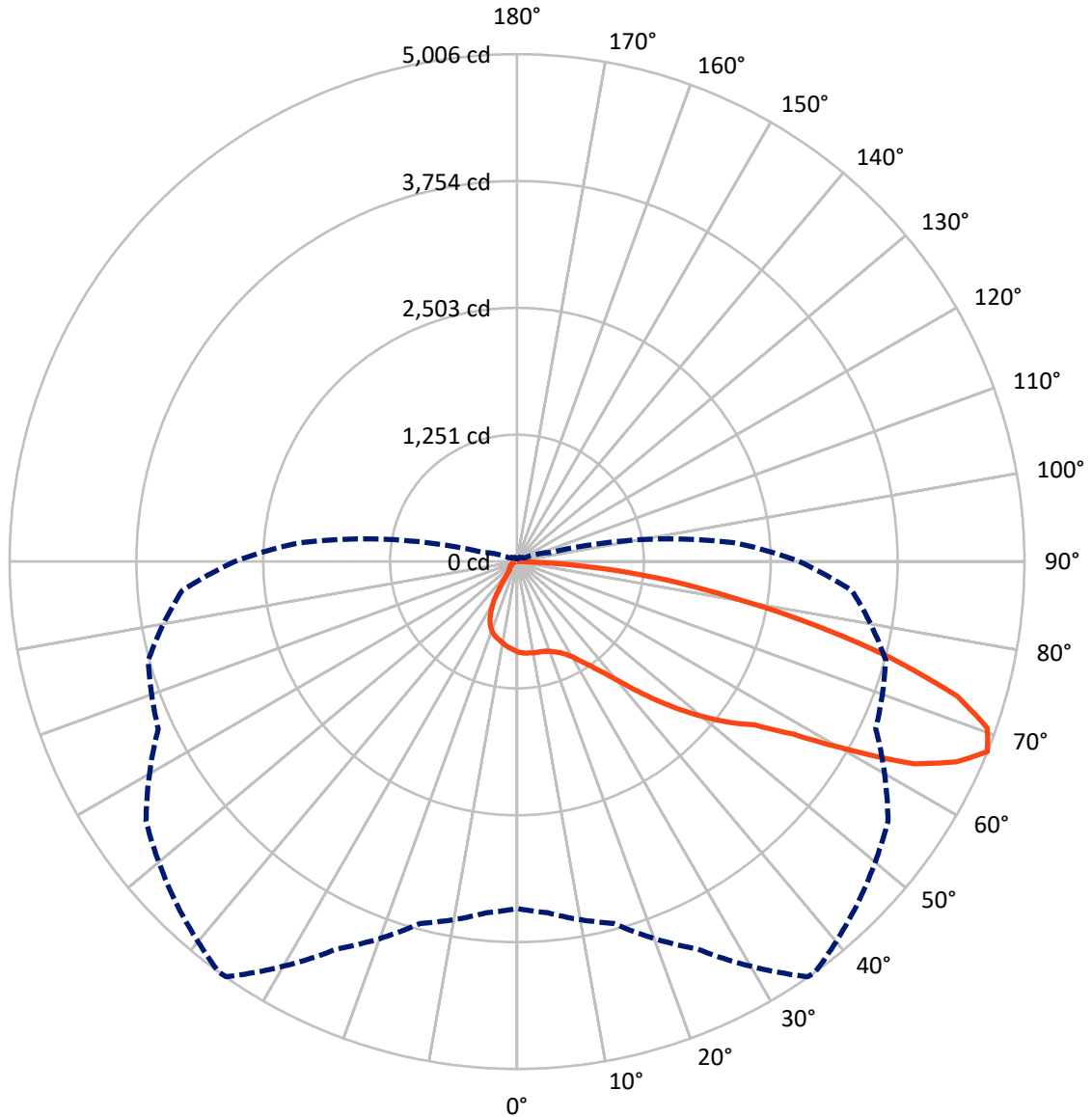
✕ Max cd
 - - - 1/2 Max cd



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 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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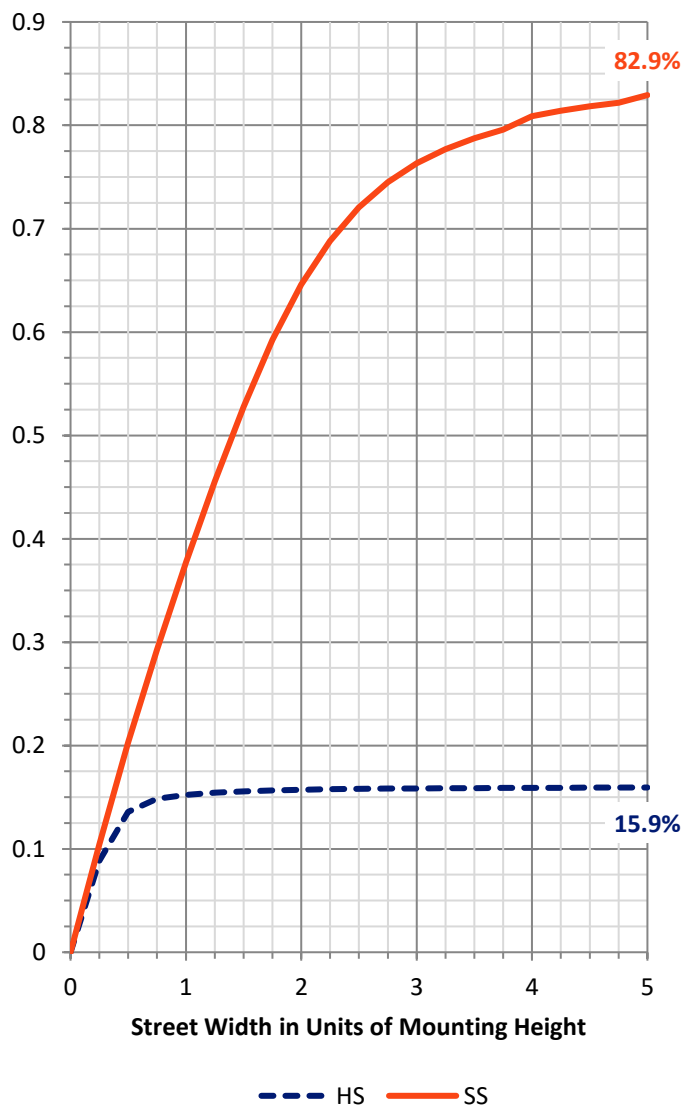
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.9	0.0	1301.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	6771.1	0.0	6771.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	8073.0	0.0	8073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.0
10°-20°	249.5	3.1
20°-30°	412.6	5.1
30°-40°	654.4	8.1
40°-50°	1129.5	14.0
50°-60°	1674.2	20.7
60°-70°	2164.6	26.8
70°-80°	1461.2	18.1
80°-90°	242.9	3.0
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°	8073.0	100.0
0°-180°	8073.0	100.0

Coefficient of Utilization



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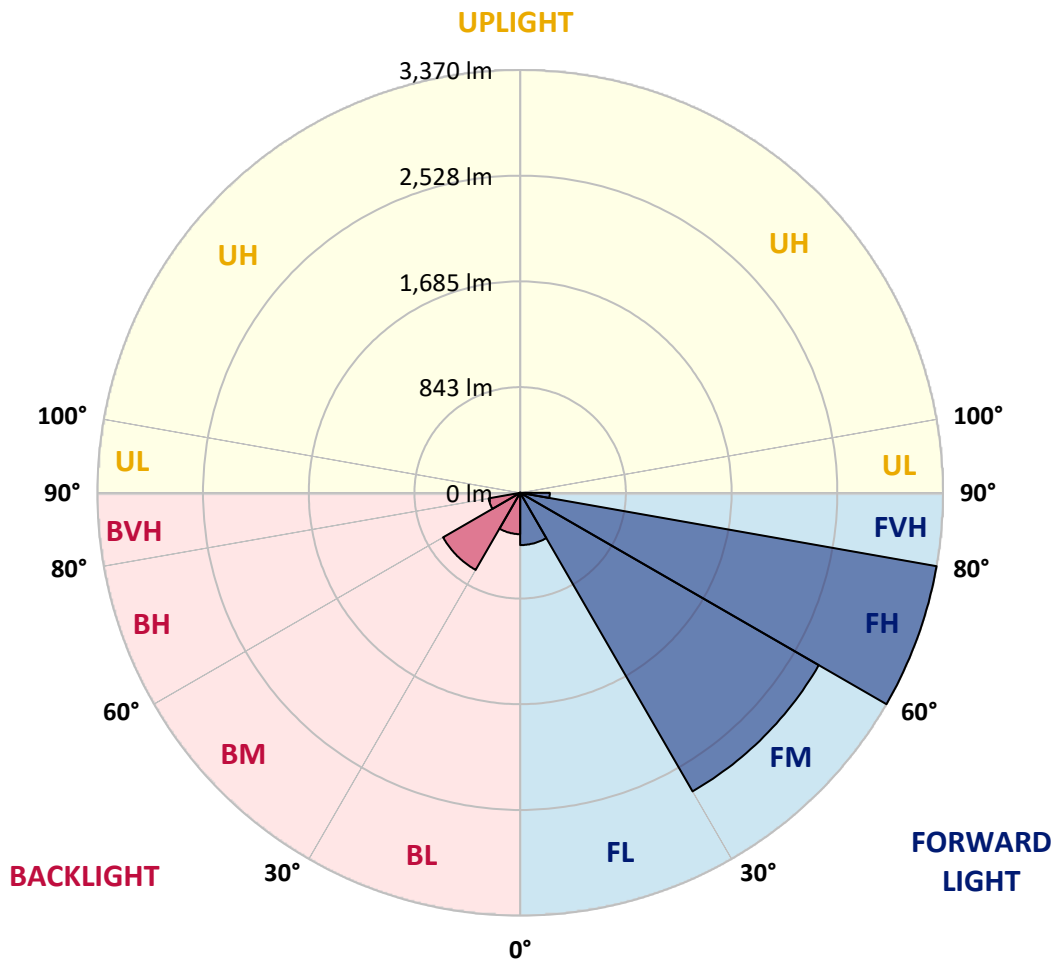
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.7	5.2			
FM	(30°-60°)	2747.9	34.0			
FH	(60°-80°)	3370.5	41.8			G2/5000
FVH	(80°-90°)	236.0	2.9			G3/500
BL	(0°-30°)	329.5	4.1	B1/500		
BM	(30°-60°)	710.3	8.8	B1/1000		
BH	(60°-80°)	255.3	3.2	B1/500		G1/500
BVH	(80°-90°)	6.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2
2.5°	896.1	904.8	903.8	902.8	902.8	901.9	896.1	890.3	893.2	892.2	891.3
5°	899.9	908.6	907.7	906.7	906.7	907.7	899.0	892.2	894.1	896.1	895.1
7.5°	901.9	909.6	907.7	906.7	905.7	908.6	901.9	902.8	904.8	904.8	904.8
10°	904.8	910.6	910.6	911.5	912.5	915.4	912.5	915.4	923.1	921.2	926.0
12.5°	897.0	903.8	906.7	911.5	916.4	918.3	921.2	928.9	938.6	943.4	948.2
15°	894.1	900.9	905.7	911.5	919.3	921.2	928.9	942.4	954.0	963.7	974.3
17.5°	903.8	911.5	918.3	922.2	926.0	928.9	936.6	954.0	974.3	991.7	1007.1
20°	922.2	929.9	937.6	941.5	944.4	946.3	952.1	968.5	994.6	1021.6	1043.8
22.5°	943.4	951.1	959.8	962.7	969.5	969.5	970.4	986.8	1018.7	1055.4	1082.4
25°	966.6	971.4	979.1	983.9	993.6	995.5	998.4	1012.9	1052.5	1094.0	1136.5
27.5°	993.6	1003.3	1011.0	1016.8	1036.1	1037.1	1035.1	1053.5	1092.1	1143.3	1203.1
30°	1042.9	1053.5	1061.2	1070.9	1096.0	1095.0	1107.5	1126.9	1149.1	1205.1	1285.2
32.5°	1121.1	1122.0	1125.9	1138.4	1174.2	1178.0	1202.2	1236.9	1281.4	1317.1	1402.1
35°	1264.0	1259.1	1247.6	1245.6	1269.8	1271.7	1319.0	1392.4	1489.0	1607.7	1739.0
37.5°	1431.0	1443.6	1430.1	1388.5	1392.4	1393.4	1449.4	1543.0	1722.6	2020.0	2144.6
40°	1724.6	1731.3	1647.3	1581.7	1558.5	1547.9	1576.8	1718.8	1948.6	2335.8	2423.7
42.5°	1983.3	1983.3	1905.1	1803.7	1744.8	1752.6	1743.9	1884.9	2180.3	2610.0	2641.9
45°	2242.1	2233.4	2162.0	2077.0	1973.7	1966.9	1944.7	2052.9	2393.7	2807.0	2808.0
47.5°	2483.5	2503.8	2396.6	2303.0	2197.7	2192.9	2153.3	2237.3	2598.4	2979.8	2953.8
50°	2737.5	2765.5	2631.3	2526.0	2412.1	2418.8	2386.0	2444.9	2802.2	3141.1	3093.8
52.5°	3098.6	3046.5	2886.2	2740.4	2622.6	2641.9	2608.1	2642.9	3013.6	3269.5	3171.0
55°	3485.8	3393.1	3259.9	3015.6	2844.7	2842.7	2817.6	2859.1	3227.0	3416.3	3258.9
57.5°	3693.4	3721.4	3690.5	3492.6	3216.4	3211.6	3061.0	3065.8	3423.1	3541.8	3381.5
60°	3930.0	3964.8	4032.4	3908.8	3770.7	3774.5	3398.9	3286.9	3629.7	3642.3	3391.2
62.5°	4055.5	4059.4	4214.9	4258.3	4370.3	4395.4	4110.6	3557.3	3766.8	3719.5	3407.6
65°	3833.4	3840.2	4139.5	4358.7	4732.4	4766.2	4643.6	4080.6	3869.2	3760.1	3392.2
67.5°	3423.1	3478.1	3696.3	4219.7	5000.9	5005.7	4758.5	4467.8	3904.9	3765.8	3317.8
70°	2868.8	2849.5	3125.7	3754.3	4959.3	4923.6	4708.3	4512.3	3878.8	3686.7	2978.9
72.5°	2127.2	2098.3	2383.1	3018.5	4473.6	4541.2	4483.3	4252.5	3780.3	3391.2	2417.9
75°	1456.1	1489.9	1745.8	2275.9	3715.6	3818.0	4073.9	4051.7	3363.2	2810.9	1655.0
77.5°	996.5	1011.0	1230.2	1693.7	2945.1	2984.7	3408.6	3273.4	2472.9	1727.5	552.3
80°	648.9	644.1	841.0	1206.0	2159.1	2154.3	2434.3	2071.2	1332.5	589.0	76.3
82.5°	362.1	383.3	504.0	792.8	1459.0	1474.5	1519.9	1132.7	512.7	68.6	48.3
85°	203.7	212.4	289.7	449.0	764.8	803.4	677.9	416.2	91.7	37.7	28.0
87.5°	48.3	46.3	92.7	171.9	127.5	138.1	65.7	19.3	9.7	6.8	6.8
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°	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2	892.2
2.5°	891.3	889.3	887.4	883.5	880.6	871.9	872.9	878.7	872.9	882.6	876.8
5°	893.2	890.3	885.5	873.9	865.2	858.4	856.5	855.5	847.8	856.5	852.6
7.5°	900.9	898.0	887.4	874.8	862.3	842.0	839.1	835.2	820.8	826.6	821.7
10°	919.3	915.4	897.0	879.7	860.4	833.3	817.9	806.3	789.9	791.8	787.0
12.5°	942.4	938.6	917.3	888.4	861.3	823.7	796.6	774.4	750.3	750.3	745.4
15°	969.5	965.6	941.5	907.7	865.2	815.9	775.4	739.7	701.0	696.2	690.4
17.5°	1006.2	1000.4	972.4	928.9	875.8	809.2	754.1	701.0	642.1	623.8	614.1
20°	1043.8	1037.1	1012.9	958.8	890.3	802.4	723.2	650.8	574.5	536.9	530.1
22.5°	1092.1	1090.2	1060.2	984.9	895.1	787.9	684.6	594.8	492.5	440.3	429.7
25°	1149.1	1146.2	1099.8	1005.2	889.3	759.0	629.6	514.7	399.8	347.6	336.0
27.5°	1216.7	1208.9	1133.6	1010.0	872.9	713.6	559.1	411.3	295.5	251.1	242.4
30°	1288.1	1276.5	1169.3	1011.0	840.1	657.6	466.4	302.2	209.5	177.7	177.7
32.5°	1407.8	1368.3	1204.1	997.5	792.8	577.4	355.3	203.7	146.8	134.2	134.2
35°	1664.7	1570.1	1259.1	980.1	731.0	478.0	241.4	138.1	122.6	122.6	121.7
37.5°	2050.0	1874.2	1352.8	951.1	647.0	355.3	159.3	113.9	116.8	116.8	116.8
40°	2296.2	2111.8	1480.3	905.7	550.4	241.4	113.9	108.1	110.1	112.0	112.0
42.5°	2526.0	2318.4	1607.7	843.0	444.2	154.5	106.2	101.4	102.4	102.4	103.3
45°	2671.8	2471.9	1702.4	776.3	327.3	110.1	104.3	95.6	92.7	92.7	94.6
47.5°	2807.0	2572.4	1743.9	688.5	211.5	103.3	99.5	88.8	85.0	84.0	84.0
50°	2942.2	2675.7	1767.1	584.2	132.3	99.5	91.7	81.1	77.2	76.3	76.3
52.5°	3002.1	2708.5	1714.9	466.4	98.5	95.6	85.9	74.4	68.6	68.6	68.6
55°	3064.8	2769.3	1627.0	334.1	93.7	88.8	79.2	66.6	61.8	63.7	63.7
57.5°	3134.3	2725.9	1533.4	217.3	92.7	80.1	70.5	59.9	56.0	57.9	58.9
60°	3113.1	2736.5	1399.2	145.8	88.8	73.4	63.7	53.1	50.2	50.2	50.2
62.5°	3113.1	2654.4	1179.0	111.0	81.1	67.6	58.9	49.2	44.4	42.5	40.6
65°	3031.0	2460.4	861.3	96.6	72.4	62.8	53.1	43.5	37.7	34.8	33.8
67.5°	2782.9	2138.8	346.7	87.9	66.6	57.9	49.2	39.6	32.8	29.0	28.0
70°	2365.7	1578.8	99.5	78.2	67.6	54.1	46.3	34.8	29.0	24.1	23.2
72.5°	1753.5	834.3	81.1	61.8	59.9	46.3	43.5	32.8	25.1	20.3	19.3
75°	885.5	113.9	69.5	44.4	46.3	48.3	41.5	29.0	23.2	16.4	15.4
77.5°	91.7	67.6	60.8	29.9	32.8	33.8	35.7	27.0	20.3	13.5	12.6
80°	57.0	51.2	59.9	26.1	19.3	23.2	24.1	21.2	16.4	10.6	10.6
82.5°	40.6	43.5	44.4	16.4	14.5	13.5	12.6	12.6	14.5	9.7	9.7
85°	28.0	29.0	18.3	10.6	9.7	8.7	7.7	7.7	6.8	7.7	6.8
87.5°	6.8	5.8	5.8	5.8	4.8	4.8	3.9	3.9	3.9	3.9	4.8
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)