

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: P507481

Luminaire Tested: **VERD-S-CA1-30-727-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-30-727-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 590mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074.3 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

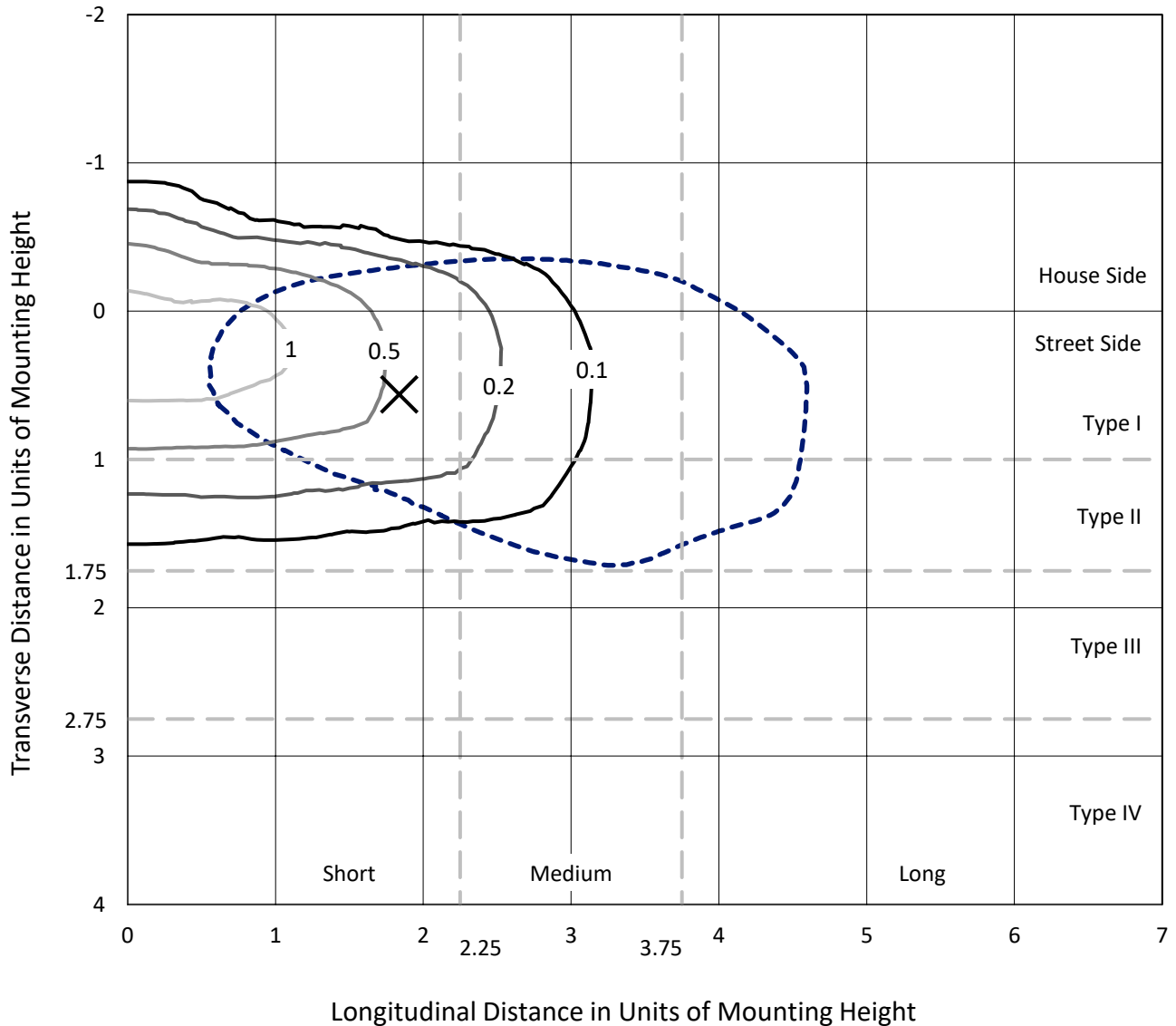
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

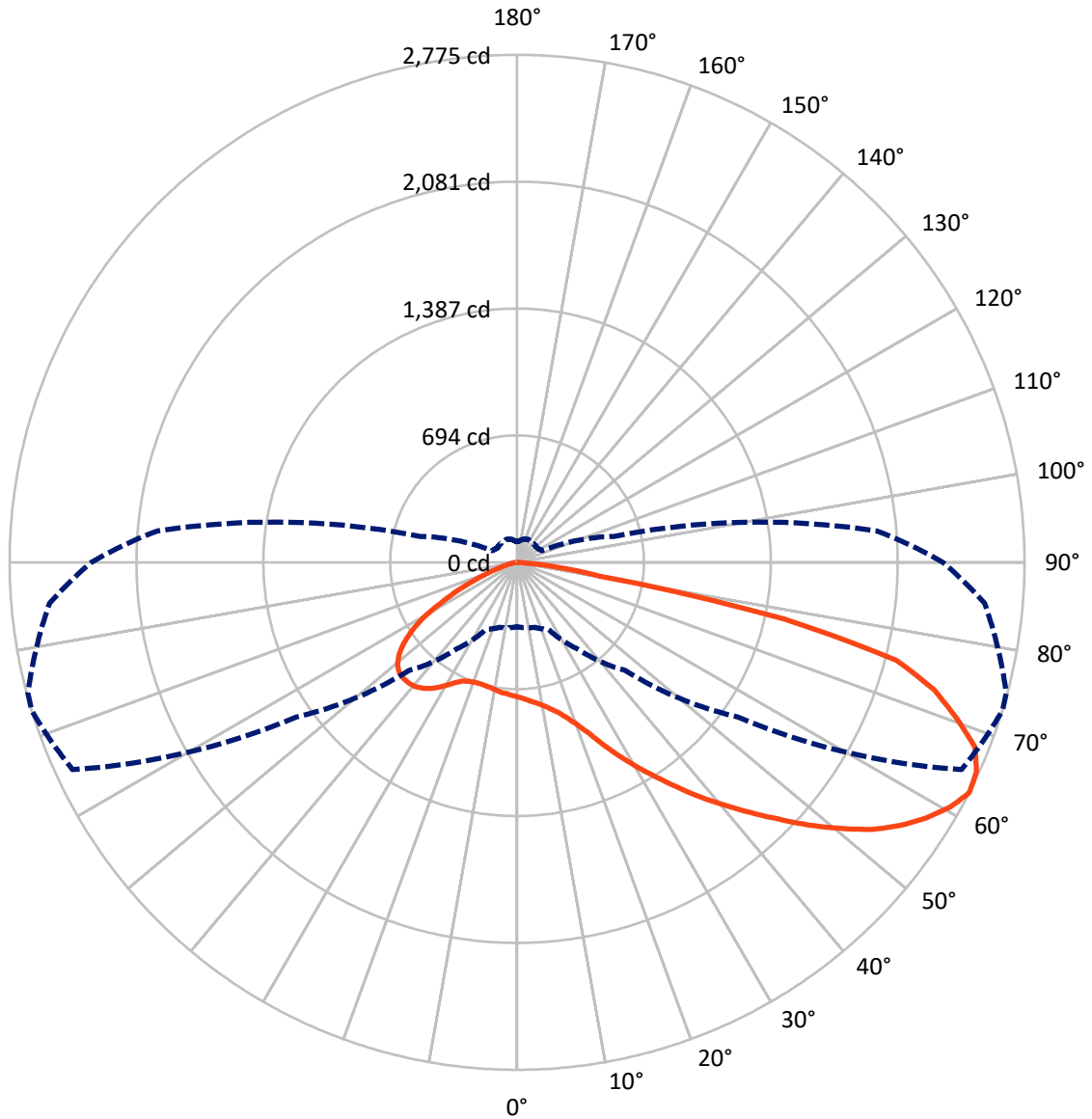
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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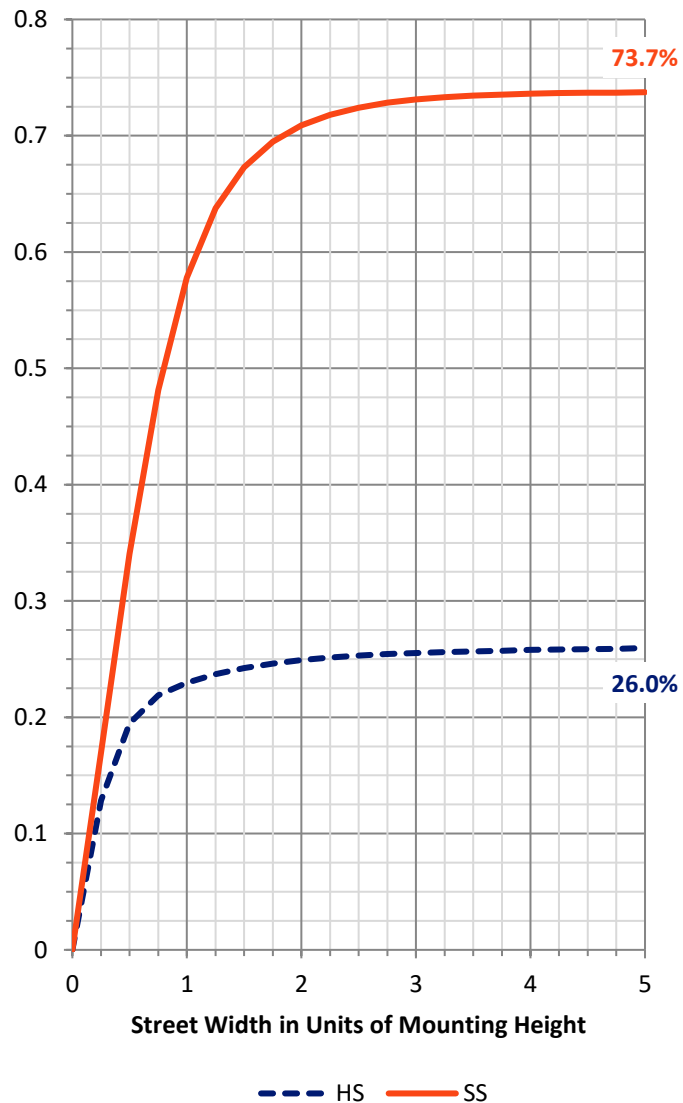
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.2	0.0	1073.2
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	3001.0	0.0	3001.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	4074.3	0.0	4074.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.7
10°-20°	217.4	5.3
20°-30°	376.3	9.2
30°-40°	545.0	13.4
40°-50°	698.0	17.1
50°-60°	808.2	19.8
60°-70°	813.8	20.0
70°-80°	497.5	12.2
80°-90°	46.9	1.2
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°	4074.3	100.0
0°-180°	4074.3	100.0

Coefficient of Utilization

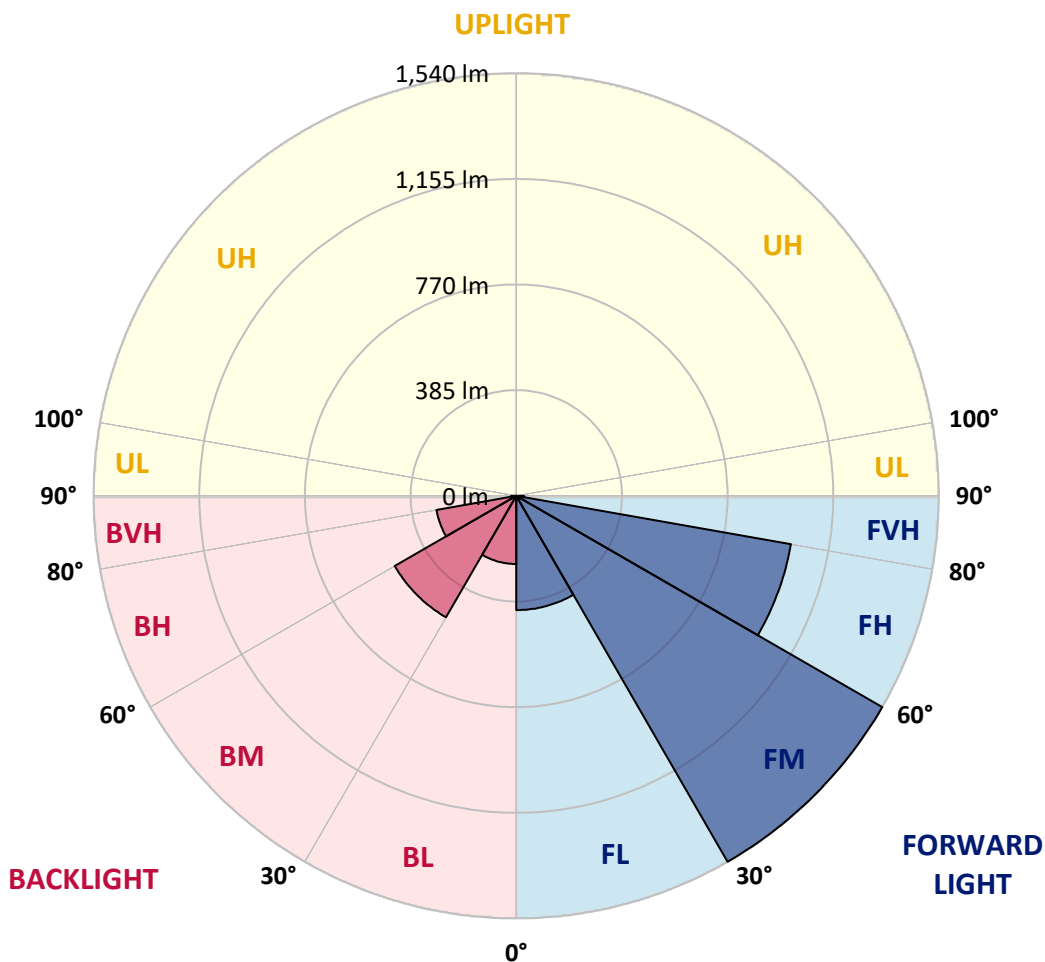


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.4	10.2			
FM (30°-60°)	1539.9	37.8			
FH (60°-80°)	1016.4	24.9			G1/1800
FVH (80°-90°)	28.3	0.7			G1/100
BL (0°-30°)	248.4	6.1	B1/500		
BM (30°-60°)	511.2	12.5	B1/1000		
BH (60°-80°)	295.0	7.2	B1/500		G1/500
BVH (80°-90°)	18.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9
2.5°	773.8	772.6	770.3	769.2	766.9	761.2	757.8	752.0	747.4	746.3	739.4
5°	811.7	812.9	811.7	808.3	803.7	795.6	784.1	769.2	762.4	760.1	748.6
7.5°	847.3	847.3	846.2	841.5	836.9	826.6	810.6	793.3	777.2	772.6	757.8
10°	881.7	881.7	878.3	873.7	866.9	854.2	838.1	816.4	796.8	789.9	764.7
12.5°	918.5	917.4	912.8	905.9	896.7	886.3	869.2	845.0	823.1	815.2	779.5
15°	947.2	947.2	943.7	939.1	931.1	918.5	902.4	881.7	853.1	846.2	800.2
17.5°	972.5	973.6	971.3	971.3	964.4	955.2	941.4	924.2	896.7	886.3	831.2
20°	993.1	991.9	996.5	1000.0	1002.3	996.5	988.5	977.0	949.5	939.1	871.3
22.5°	1002.3	1004.6	1018.4	1035.5	1045.9	1047.0	1045.9	1044.7	1020.7	1006.9	926.5
25°	1006.9	1010.3	1030.9	1060.9	1083.8	1101.0	1119.4	1130.9	1109.1	1098.7	1009.2
27.5°	1011.5	1014.9	1039.0	1075.8	1119.4	1160.7	1197.4	1219.3	1203.2	1190.5	1094.1
30°	1003.4	1006.9	1034.4	1086.1	1148.1	1220.4	1272.1	1303.1	1300.8	1292.8	1191.7
32.5°	986.2	989.6	1020.7	1084.9	1178.0	1281.3	1338.7	1390.4	1400.6	1392.7	1289.4
35°	955.2	959.8	995.4	1071.2	1191.7	1331.8	1408.7	1484.5	1510.9	1512.0	1396.1
37.5°	912.8	915.1	958.7	1044.7	1196.3	1367.4	1467.2	1575.2	1629.1	1630.3	1505.1
40°	855.4	861.1	915.1	1011.5	1186.0	1392.7	1525.8	1673.9	1745.1	1737.1	1623.4
42.5°	789.9	794.5	847.3	958.7	1161.9	1407.5	1579.8	1777.2	1871.5	1866.8	1734.8
45°	731.3	738.2	778.4	885.2	1116.0	1411.0	1626.8	1880.5	2002.3	1996.5	1848.4
47.5°	653.3	670.5	724.4	819.7	1047.0	1396.1	1669.3	2020.7	2146.9	2138.9	1967.9
50°	502.8	508.6	622.2	764.7	969.0	1359.3	1706.1	2150.4	2287.0	2281.3	2092.9
52.5°	453.5	458.1	494.9	701.5	890.9	1293.8	1727.9	2316.8	2427.1	2411.0	2205.5
55°	426.0	430.6	451.2	560.2	823.1	1195.1	1732.5	2458.0	2540.8	2525.8	2311.1
57.5°	400.6	404.1	423.7	479.9	745.1	1058.6	1708.4	2571.7	2637.2	2622.2	2406.4
60°	374.3	377.7	398.3	436.3	648.7	933.4	1629.1	2660.2	2718.8	2703.8	2492.5
62.5°	352.4	358.2	368.5	404.1	579.8	835.8	1474.1	2681.9	2774.9	2769.3	2566.0
65°	326.1	328.4	344.4	373.1	512.0	768.0	1307.7	2618.8	2760.1	2770.4	2609.7
67.5°	296.2	297.3	312.3	333.0	428.3	701.5	1159.6	2533.9	2700.3	2717.6	2577.5
70°	256.0	257.2	271.0	292.7	354.7	608.4	1006.9	2408.7	2547.7	2563.7	2453.5
72.5°	213.6	213.6	225.1	249.1	292.7	504.0	806.0	2134.4	2383.5	2409.8	2251.4
75°	93.0	96.4	116.0	138.9	189.4	370.8	550.0	1652.1	2142.3	2160.7	1973.6
77.5°	25.3	25.3	29.8	39.0	55.1	165.3	174.5	726.7	1492.6	1539.6	1459.2
80°	20.7	20.7	23.0	29.8	37.9	81.5	58.6	234.3	461.5	608.4	756.6
82.5°	11.5	11.5	13.8	17.3	20.7	20.7	20.7	119.4	227.4	242.2	316.9
85°	5.8	6.9	6.9	8.1	8.1	6.9	6.9	24.2	43.6	49.4	75.8
87.5°	2.3	2.3	2.3	2.3	1.2	1.2	2.3	3.5	3.5	4.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9
2.5°	737.1	733.6	729.0	725.6	718.7	711.9	707.3	703.8	702.7	701.5	701.5
5°	741.7	735.9	723.3	710.7	700.4	691.2	683.1	677.4	675.1	673.9	673.9
7.5°	748.6	740.5	719.8	701.5	683.1	669.3	656.8	648.7	644.1	645.3	648.7
10°	752.0	739.4	711.9	693.5	669.3	647.6	632.6	623.4	619.9	619.9	618.8
12.5°	761.2	742.8	706.1	677.4	656.8	626.8	609.6	601.6	597.0	590.1	587.8
15°	774.9	752.0	703.8	665.9	633.8	607.3	584.4	572.9	569.4	560.2	560.2
17.5°	800.2	768.0	703.8	653.3	611.9	586.7	556.8	540.8	538.5	532.7	531.6
20°	830.0	789.9	709.6	640.7	589.0	555.6	522.4	506.3	500.6	494.9	494.9
22.5°	877.1	823.1	719.8	631.4	564.8	523.5	486.8	463.8	454.6	453.5	451.2
25°	949.5	876.0	735.9	622.2	540.8	488.0	451.2	421.3	406.4	404.1	402.9
27.5°	1028.8	948.3	768.0	614.2	514.3	447.8	404.1	372.0	353.6	351.3	350.1
30°	1113.7	1023.0	810.6	607.3	481.1	401.8	352.4	321.5	304.2	299.6	300.8
32.5°	1206.6	1103.3	856.5	601.6	445.5	342.2	296.2	275.6	257.2	249.1	250.3
35°	1297.3	1174.5	896.7	597.0	398.3	288.2	252.6	230.8	212.4	202.0	202.0
37.5°	1399.5	1258.3	929.9	587.8	347.8	251.4	217.0	195.1	181.4	172.2	172.2
40°	1499.5	1342.2	956.4	570.6	291.6	221.6	179.1	166.5	157.3	151.5	149.2
42.5°	1597.0	1425.9	973.6	541.9	244.5	185.9	149.2	148.1	149.2	143.5	142.3
45°	1698.1	1508.6	986.2	496.0	211.3	153.8	133.1	141.2	149.2	146.9	146.9
47.5°	1808.3	1589.0	996.5	421.3	179.1	135.4	132.0	140.0	150.4	151.5	151.5
50°	1913.9	1670.4	993.1	326.1	157.3	134.3	133.1	135.4	149.2	152.7	150.4
52.5°	2012.6	1740.5	965.6	237.6	146.9	136.6	136.6	134.3	145.8	148.1	149.2
55°	2112.5	1806.0	903.6	188.2	141.2	136.6	142.3	136.6	140.0	141.2	143.5
57.5°	2203.2	1872.6	811.7	168.8	140.0	136.6	142.3	138.9	138.9	134.3	133.1
60°	2273.2	1927.6	700.4	160.7	136.6	137.7	140.0	140.0	136.6	126.3	122.9
62.5°	2328.4	1973.6	547.7	150.4	134.3	135.4	134.3	138.9	130.9	116.0	112.5
65°	2359.3	1981.6	419.0	138.9	128.6	133.1	129.8	128.6	121.7	105.6	98.7
67.5°	2324.9	1925.4	292.7	127.5	121.7	129.8	124.0	119.4	111.4	96.4	87.2
70°	2191.7	1762.4	192.8	112.5	112.5	121.7	117.1	110.2	99.9	88.4	78.1
72.5°	1941.4	1518.9	116.0	93.0	99.9	111.4	109.1	99.9	70.1	54.0	47.1
75°	1641.8	1247.9	74.7	70.1	81.5	99.9	101.0	89.5	59.7	48.2	48.2
77.5°	1192.8	819.7	43.6	39.0	54.0	80.3	86.1	65.5	64.3	89.5	65.5
80°	611.9	397.2	33.3	24.2	28.6	59.7	48.2	49.4	97.6	72.4	45.9
82.5°	265.2	157.3	20.7	17.3	18.4	29.8	31.0	81.5	75.8	42.5	28.6
85°	56.3	29.8	11.5	11.5	11.5	13.8	17.3	88.4	47.1	21.9	9.2
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	4.6	4.6	4.6	3.5	3.5
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)