

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: P507457

Luminaire Tested: **VERD-S-CA1-20-750-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507457
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-CA1-20-750-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3614 lumens
Efficiency: N/A
Efficacy: 154.4 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

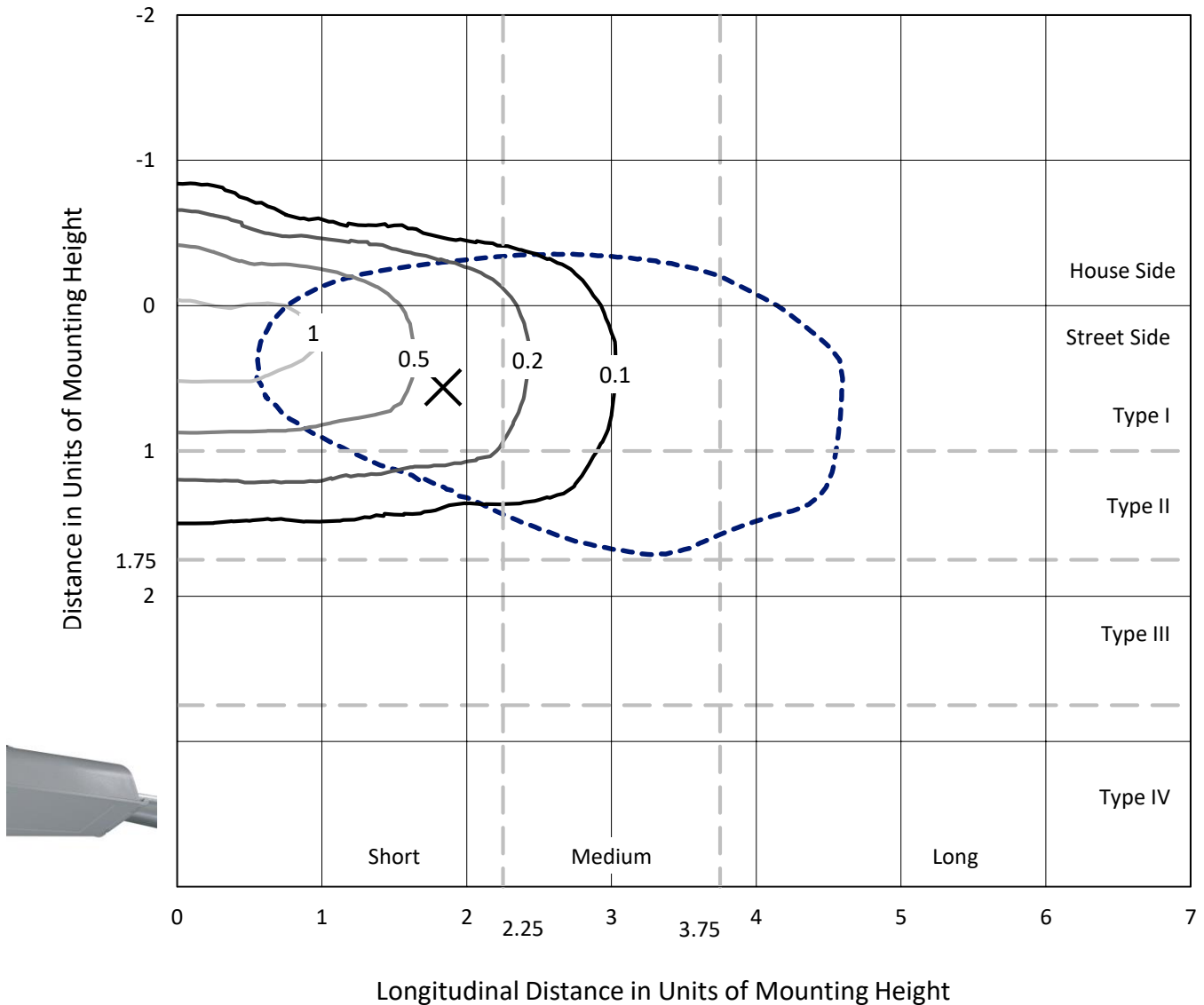
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

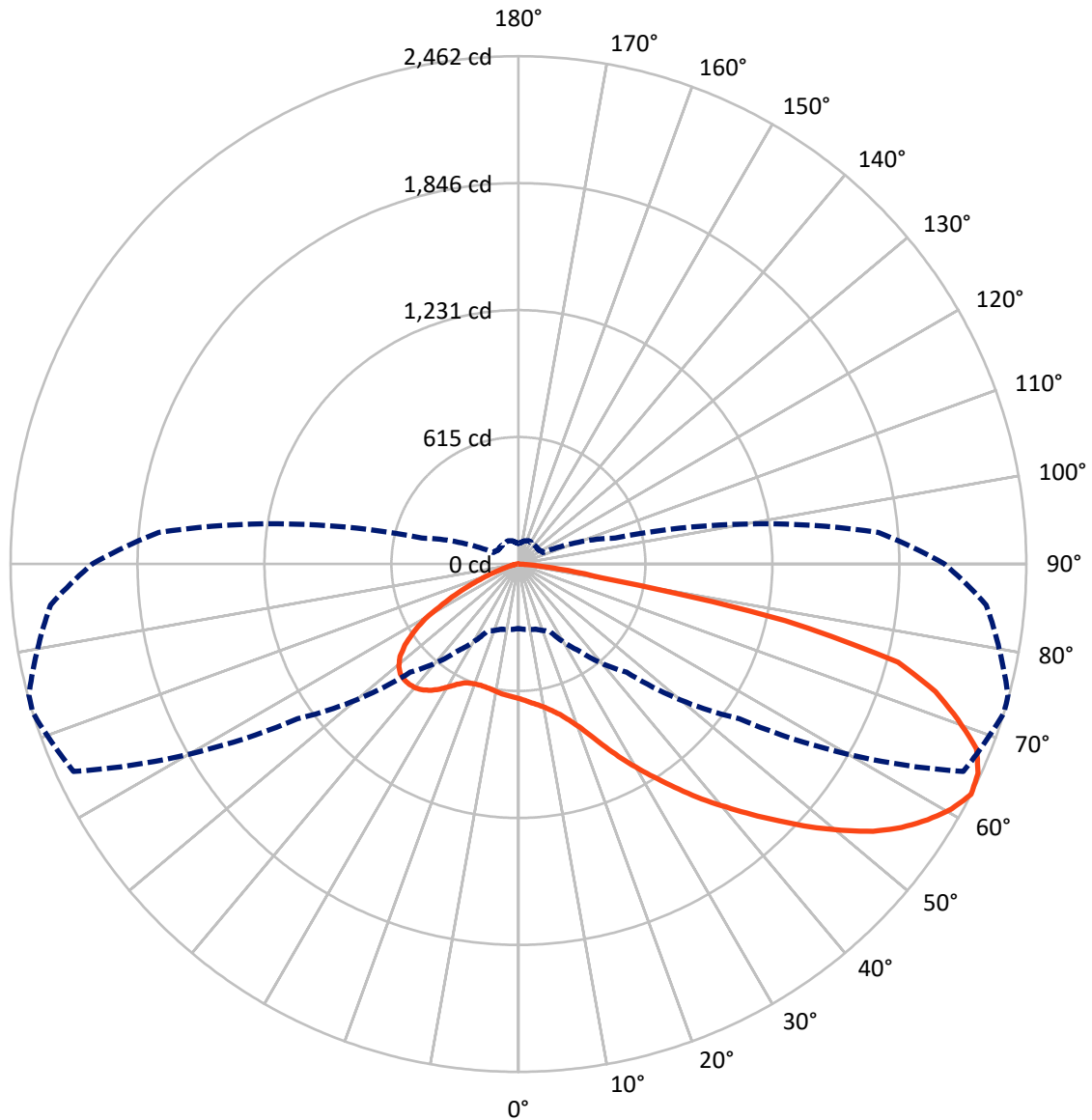
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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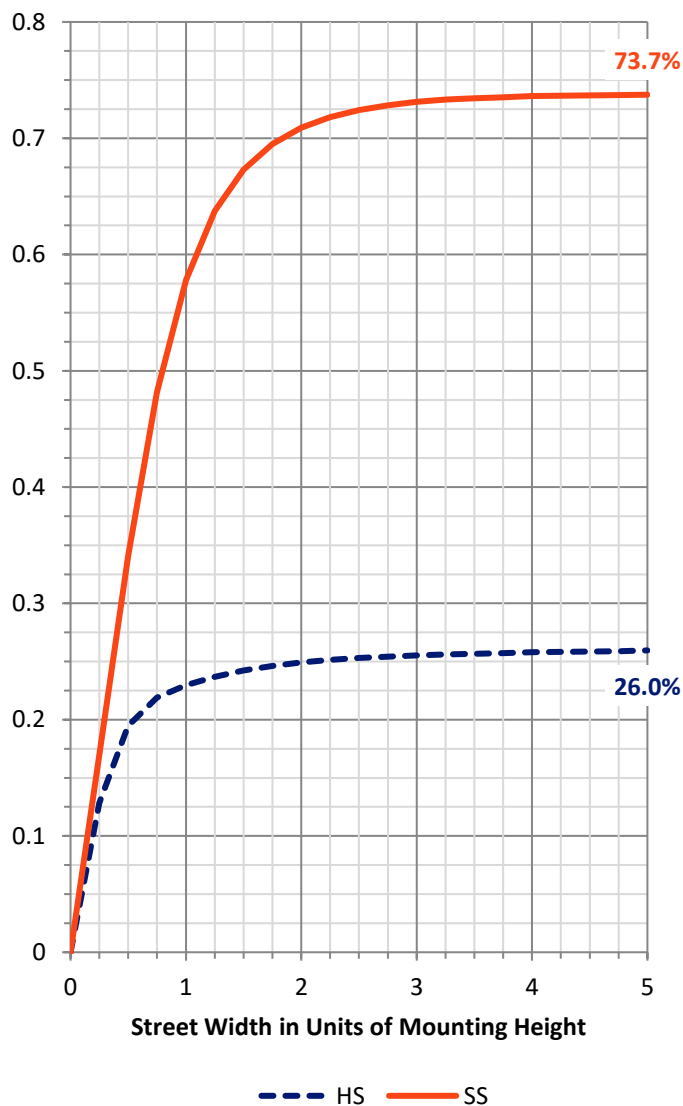
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	952.0	0.0	952.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	2662.0	0.0	2662.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	3614.0	0.0	3614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.7
10°-20°	192.8	5.3
20°-30°	333.8	9.2
30°-40°	483.4	13.4
40°-50°	619.2	17.1
50°-60°	716.9	19.8
60°-70°	721.9	20.0
70°-80°	441.3	12.2
80°-90°	41.6	1.1
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°	3614.0	100.0
0°-180°	3614.0	100.0

Coefficient of Utilization



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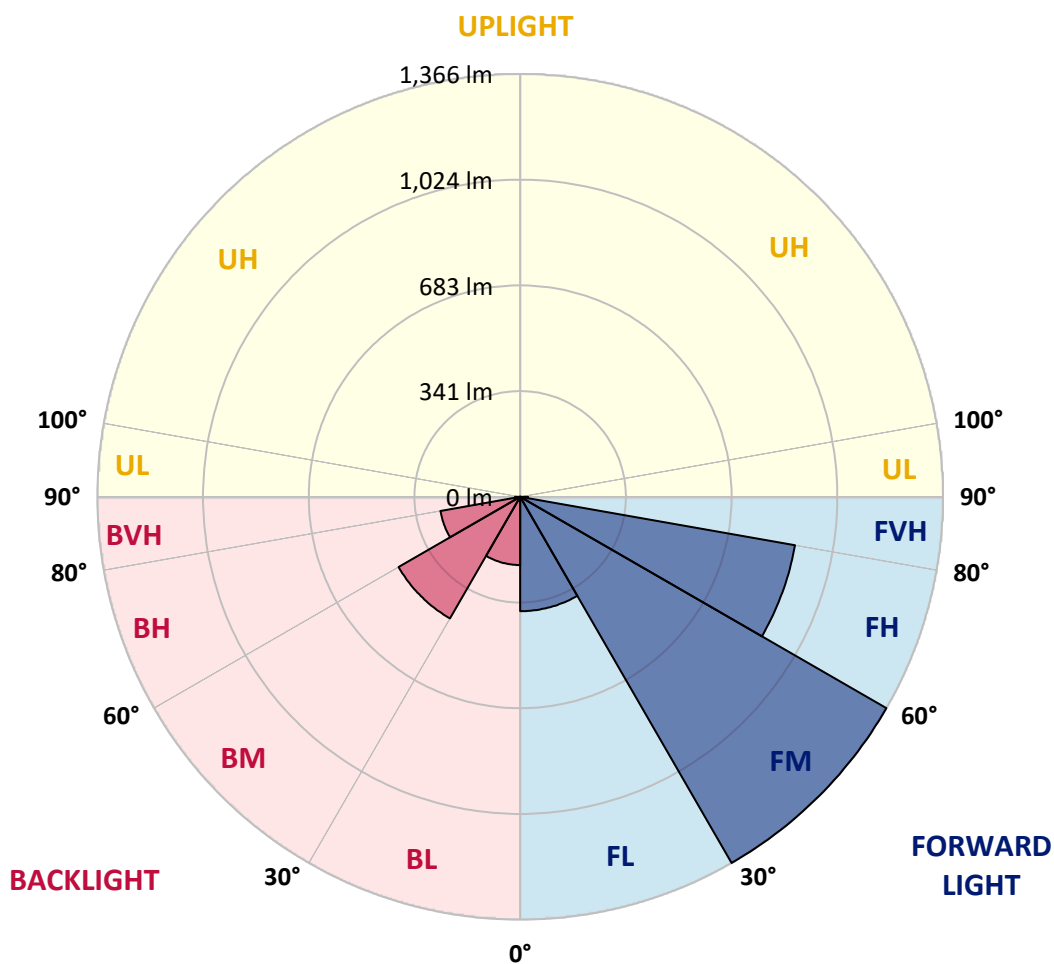
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.4	10.2			
FM (30°-60°)	1366.0	37.8			
FH (60°-80°)	901.6	24.9			G1/1800
FVH (80°-90°)	25.1	0.7			G1/100
BL (0°-30°)	220.4	6.1	B1/500		
BM (30°-60°)	453.5	12.5	B1/1000		
BH (60°-80°)	261.7	7.2	B1/500		G1/500
BVH (80°-90°)	16.5	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°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	686.4	685.4	683.3	682.3	680.3	675.2	672.1	667.0	663.0	662.0	655.8
5°	720.0	721.0	720.0	717.0	712.9	705.7	695.6	682.3	676.2	674.2	664.0
7.5°	751.6	751.6	750.6	746.5	742.4	733.2	719.0	703.7	689.5	685.4	672.1
10°	782.1	782.1	779.1	775.0	768.9	757.7	743.4	724.1	706.8	700.7	678.3
12.5°	814.7	813.7	809.6	803.5	795.4	786.2	770.9	749.5	730.2	723.1	691.5
15°	840.2	840.2	837.1	833.0	825.9	814.7	800.5	782.1	756.7	750.6	709.8
17.5°	862.6	863.6	861.6	861.6	855.5	847.3	835.1	819.8	795.4	786.2	737.3
20°	880.9	879.9	884.0	887.0	889.1	884.0	876.8	866.7	842.2	833.0	773.0
22.5°	889.1	891.1	903.3	918.6	927.8	928.8	927.8	926.7	905.4	893.1	821.8
25°	893.1	896.2	914.5	941.0	961.4	976.6	992.9	1003.1	983.8	974.6	895.2
27.5°	897.2	900.3	921.6	954.2	992.9	1029.6	1062.2	1081.5	1067.3	1056.1	970.5
30°	890.1	893.1	917.6	963.4	1018.4	1082.6	1128.4	1155.9	1153.8	1146.7	1057.1
32.5°	874.8	877.9	905.4	962.4	1044.9	1136.5	1187.5	1233.3	1242.4	1235.3	1143.7
35°	847.3	851.4	882.9	950.2	1057.1	1181.3	1249.6	1316.8	1340.2	1341.2	1238.4
37.5°	809.6	811.7	850.4	926.7	1061.2	1212.9	1301.5	1397.2	1445.1	1446.1	1335.1
40°	758.7	763.8	811.7	897.2	1052.0	1235.3	1353.4	1484.8	1548.0	1540.8	1440.0
42.5°	700.7	704.7	751.6	850.4	1030.6	1248.6	1401.3	1576.5	1660.0	1655.9	1538.8
45°	648.7	654.8	690.5	785.2	989.9	1251.6	1443.1	1668.1	1776.1	1771.0	1639.6
47.5°	579.5	594.7	642.6	727.1	928.8	1238.4	1480.7	1792.4	1904.4	1897.3	1745.5
50°	446.1	451.1	552.0	678.3	859.5	1205.8	1513.3	1907.5	2028.6	2023.6	1856.5
52.5°	402.3	406.3	438.9	622.2	790.3	1147.7	1532.7	2055.1	2152.9	2138.6	1956.3
55°	377.8	381.9	400.2	497.0	730.2	1060.2	1536.8	2180.4	2253.7	2240.5	2050.0
57.5°	355.4	358.5	375.8	425.7	660.9	939.0	1515.4	2281.2	2339.3	2326.0	2134.6
60°	332.0	335.1	353.4	387.0	575.4	828.0	1445.1	2359.6	2411.6	2398.3	2210.9
62.5°	312.6	317.7	326.9	358.5	514.3	741.4	1307.6	2379.0	2461.5	2456.4	2276.1
65°	289.2	291.3	305.5	331.0	454.2	681.3	1160.0	2323.0	2448.2	2457.4	2314.8
67.5°	262.7	263.8	277.0	295.3	379.9	622.2	1028.6	2247.6	2395.3	2410.5	2286.3
70°	227.1	228.1	240.3	259.7	314.7	539.8	893.1	2136.6	2259.8	2274.1	2176.3
72.5°	189.4	189.4	199.6	221.0	259.7	447.1	714.9	1893.2	2114.2	2137.6	1997.1
75°	82.5	85.5	102.9	123.2	168.0	328.9	487.8	1465.5	1900.3	1916.6	1750.6
77.5°	22.4	22.4	26.5	34.6	48.9	146.6	154.8	644.6	1323.9	1365.7	1294.4
80°	18.3	18.3	20.4	26.5	33.6	72.3	51.9	207.8	409.4	539.8	671.1
82.5°	10.2	10.2	12.2	15.3	18.3	18.3	18.3	105.9	201.6	214.9	281.1
85°	5.1	6.1	6.1	7.1	7.1	6.1	6.1	21.4	38.7	43.8	67.2
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	2.0	3.1	3.1	4.1	5.1
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°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	653.8	650.8	646.7	643.6	637.5	631.4	627.3	624.3	623.3	622.2	622.2
5°	657.9	652.8	641.6	630.4	621.2	613.1	605.9	600.9	598.8	597.8	597.8
7.5°	664.0	656.9	638.5	622.2	605.9	593.7	582.5	575.4	571.3	572.3	575.4
10°	667.0	655.8	631.4	615.1	593.7	574.4	561.1	553.0	549.9	549.9	548.9
12.5°	675.2	658.9	626.3	600.9	582.5	556.0	540.8	533.6	529.6	523.5	521.4
15°	687.4	667.0	624.3	590.7	562.2	538.7	518.4	508.2	505.1	497.0	497.0
17.5°	709.8	681.3	624.3	579.5	542.8	520.4	493.9	479.7	477.6	472.5	471.5
20°	736.3	700.7	629.4	568.3	522.4	492.9	463.4	449.1	444.0	438.9	438.9
22.5°	778.1	730.2	638.5	560.1	501.1	464.4	431.8	411.4	403.3	402.3	400.2
25°	842.2	777.0	652.8	552.0	479.7	432.8	400.2	373.8	360.5	358.5	357.5
27.5°	912.5	841.2	681.3	544.8	456.2	397.2	358.5	330.0	313.7	311.6	310.6
30°	987.8	907.4	719.0	538.7	426.7	356.4	312.6	285.2	269.9	265.8	266.8
32.5°	1070.3	978.7	759.7	533.6	395.1	303.5	262.7	244.4	228.1	221.0	222.0
35°	1150.8	1041.8	795.4	529.6	353.4	255.6	224.0	204.7	188.4	179.2	179.2
37.5°	1241.4	1116.2	824.9	521.4	308.6	223.0	192.5	173.1	160.9	152.8	152.8
40°	1330.0	1190.5	848.3	506.1	258.7	196.6	158.9	147.7	139.5	134.4	132.4
42.5°	1416.6	1264.8	863.6	480.7	216.9	165.0	132.4	131.4	132.4	127.3	126.3
45°	1506.2	1338.2	874.8	439.9	187.4	136.5	118.1	125.3	132.4	130.4	130.4
47.5°	1604.0	1409.5	884.0	373.8	158.9	120.2	117.1	124.2	133.4	134.4	134.4
50°	1697.7	1481.8	880.9	289.2	139.5	119.2	118.1	120.2	132.4	135.4	133.4
52.5°	1785.2	1543.9	856.5	210.8	130.4	121.2	121.2	119.2	129.3	131.4	132.4
55°	1873.9	1601.9	801.5	167.0	125.3	121.2	126.3	121.2	124.2	125.3	127.3
57.5°	1954.3	1661.0	720.0	149.7	124.2	121.2	126.3	123.2	123.2	119.2	118.1
60°	2016.4	1709.9	621.2	142.6	121.2	122.2	124.2	124.2	121.2	112.0	109.0
62.5°	2065.3	1750.6	485.8	133.4	119.2	120.2	119.2	123.2	116.1	102.9	99.8
65°	2092.8	1757.8	371.7	123.2	114.1	118.1	115.1	114.1	108.0	93.7	87.6
67.5°	2062.3	1707.9	259.7	113.0	108.0	115.1	110.0	105.9	98.8	85.5	77.4
70°	1944.1	1563.2	171.1	99.8	99.8	108.0	103.9	97.8	88.6	78.4	69.3
72.5°	1722.1	1347.3	102.9	82.5	88.6	98.8	96.7	88.6	62.1	47.9	41.8
75°	1456.3	1107.0	66.2	62.1	72.3	88.6	89.6	79.4	53.0	42.8	42.8
77.5°	1058.1	727.1	38.7	34.6	47.9	71.3	76.4	58.0	57.0	79.4	58.0
80°	542.8	352.4	29.5	21.4	25.5	53.0	42.8	43.8	86.6	64.2	40.7
82.5°	235.2	139.5	18.3	15.3	16.3	26.5	27.5	72.3	67.2	37.7	25.5
85°	49.9	26.5	10.2	10.2	10.2	12.2	15.3	78.4	41.8	19.3	8.1
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.1	4.1	4.1	3.1	3.1
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)