

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: P507517

Luminaire Tested: **VERD-S-CA1-30-760-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-30-760-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 590mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4740.5 lumens
Efficiency: N/A
Efficacy: 139.4 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

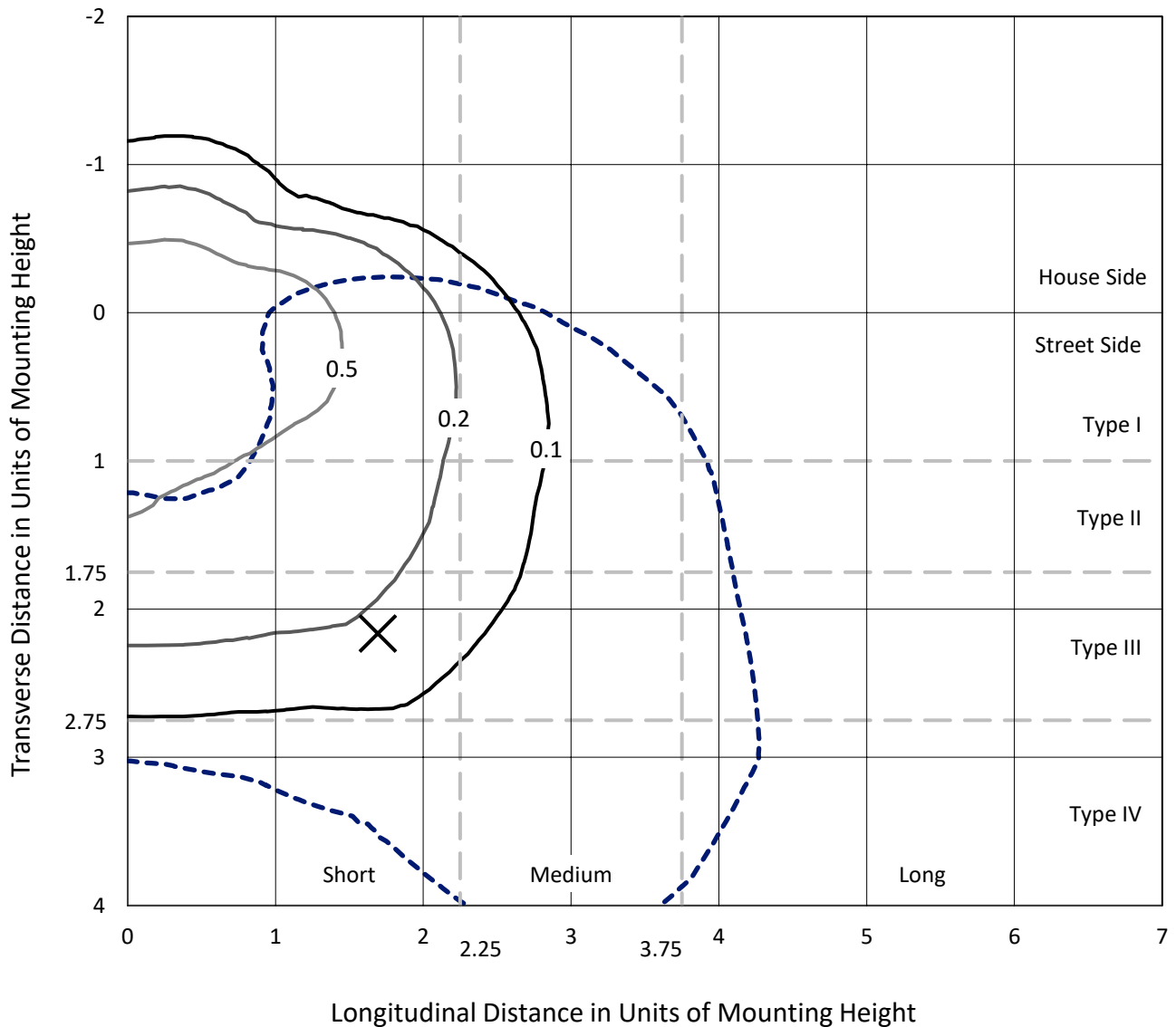
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

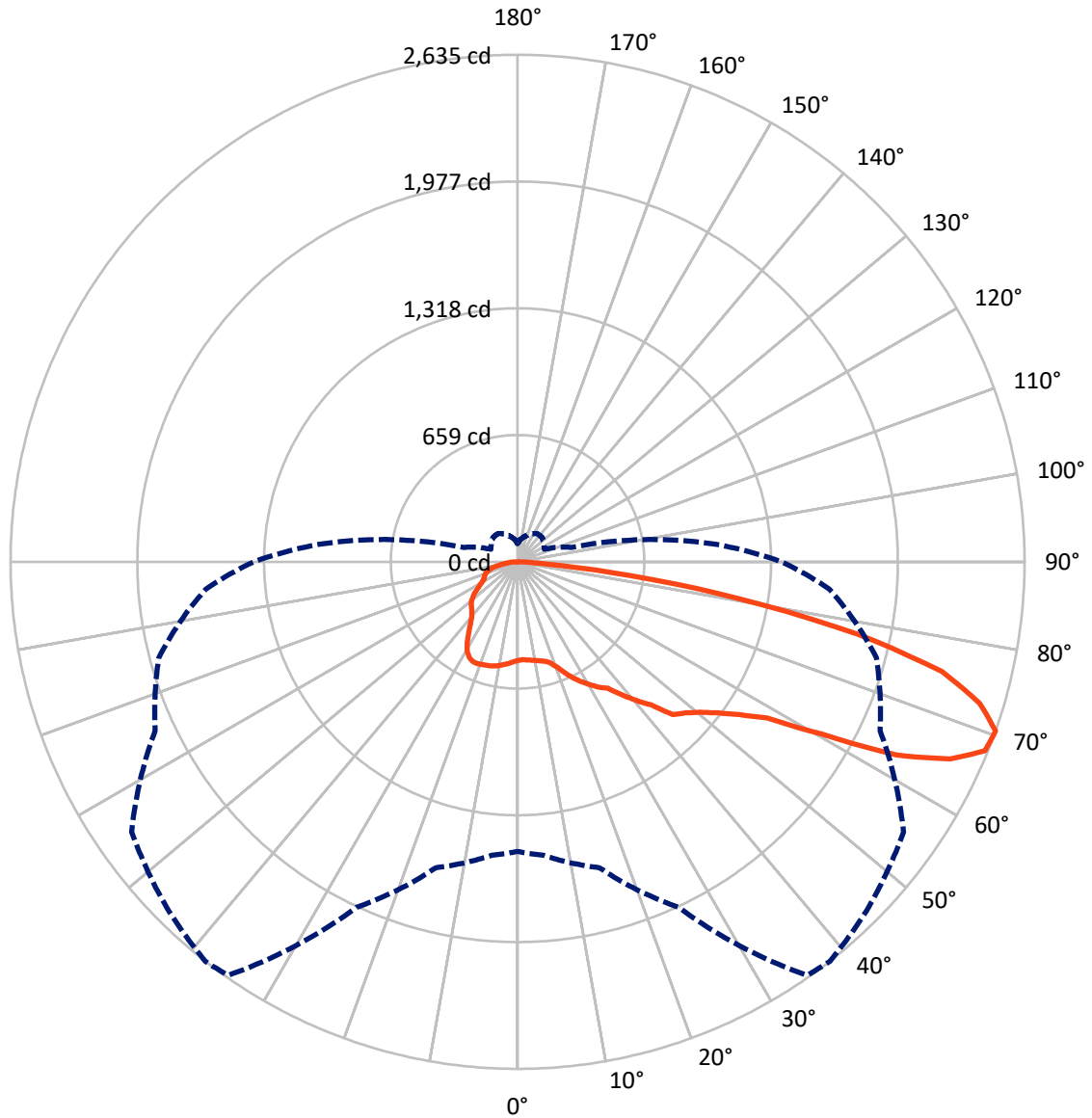
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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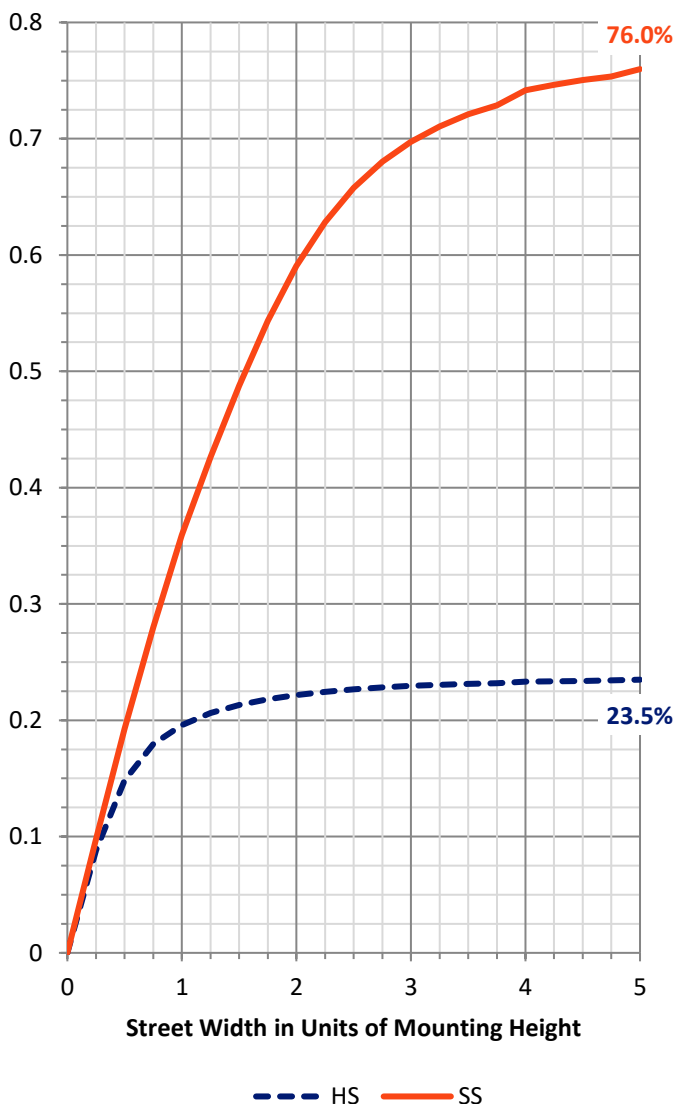
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.9	0.0	1125.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3614.6	0.0	3614.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	4740.5	0.0	4740.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.1
10°-20°	157.4	3.3
20°-30°	292.0	6.2
30°-40°	452.1	9.5
40°-50°	669.9	14.1
50°-60°	933.4	19.7
60°-70°	1198.8	25.3
70°-80°	877.0	18.5
80°-90°	109.9	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°	4740.5	100.0
0°-180°	4740.5	100.0

Coefficient of Utilization

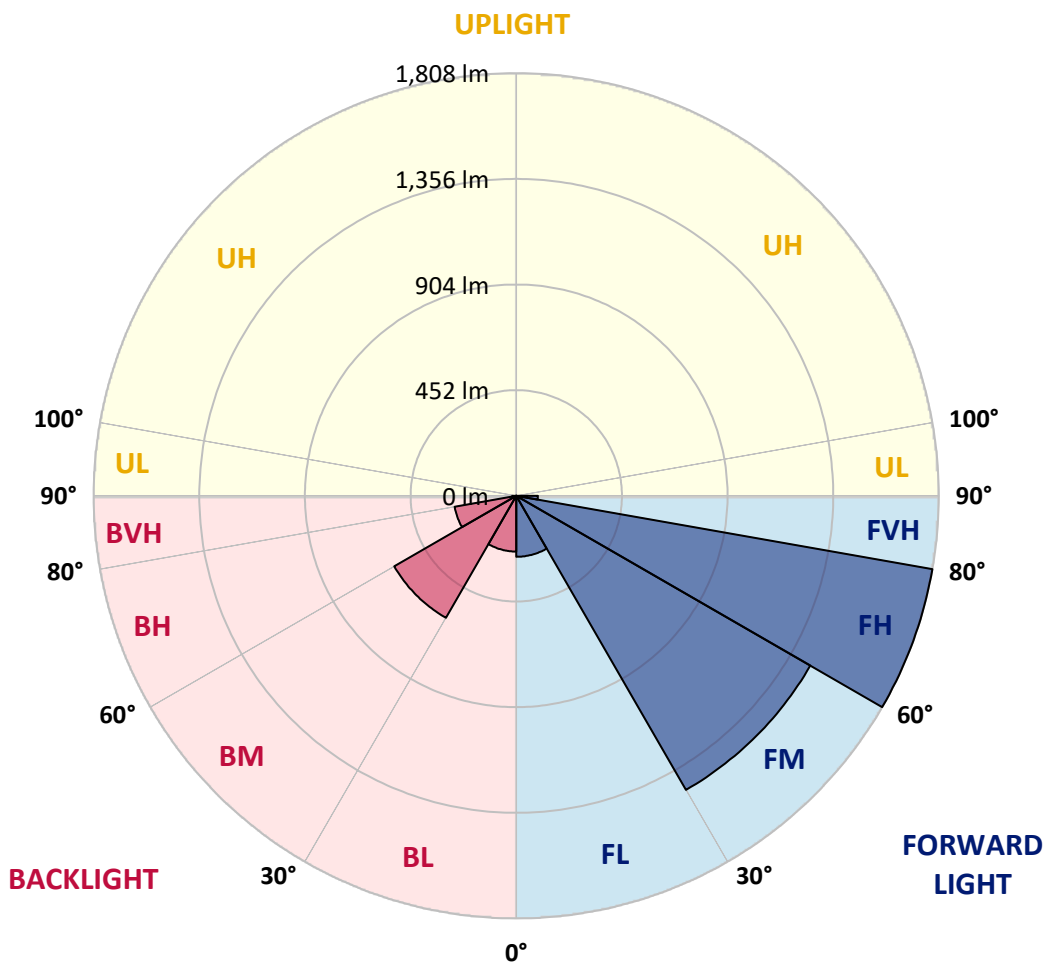


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.8	5.5			
FM (30°-60°)	1452.8	30.6			
FH (60°-80°)	1808.0	38.1			G2/5000
FVH (80°-90°)	92.8	2.0			G1/100
BL (0°-30°)	238.5	5.0	B1/500		
BM (30°-60°)	602.6	12.7	B1/1000		
BH (60°-80°)	267.7	5.6	B1/500		G1/500
BVH (80°-90°)	17.0	0.4			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°	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2
2.5°	510.9	510.9	510.9	509.5	509.5	509.5	508.2	508.2	509.5	510.9	510.9
5°	514.9	514.9	513.6	513.6	512.2	512.2	512.2	510.9	510.9	510.9	513.6
7.5°	516.3	516.3	516.3	516.3	516.3	516.3	517.7	516.3	516.3	516.3	519.0
10°	516.3	516.3	517.7	517.7	520.3	521.7	523.1	525.7	525.7	525.7	527.1
12.5°	519.0	519.0	520.3	521.7	525.7	528.5	531.1	535.3	536.5	536.5	537.9
15°	524.4	524.4	525.7	529.9	535.3	536.5	540.6	546.0	551.4	552.7	554.1
17.5°	546.0	546.0	546.0	546.0	551.4	552.7	558.2	566.3	571.7	574.4	578.4
20°	589.2	590.6	588.0	586.6	583.8	583.8	583.8	588.0	594.6	604.2	610.9
22.5°	644.7	644.7	644.7	633.9	627.1	625.8	625.8	624.4	629.8	639.3	648.7
25°	687.9	689.3	687.9	678.5	670.3	667.7	667.7	671.7	671.7	679.8	690.6
27.5°	723.0	725.8	721.7	713.6	706.8	705.5	706.8	719.0	725.8	731.2	744.7
30°	760.9	762.3	752.8	747.4	743.3	740.6	742.0	759.5	782.5	789.3	812.2
32.5°	831.2	831.2	817.6	786.6	775.7	777.1	777.1	800.1	831.2	862.3	892.1
35°	897.4	896.1	883.9	856.9	816.4	806.8	812.2	836.6	885.3	938.0	990.7
37.5°	975.8	973.1	962.2	924.4	890.7	875.8	846.0	878.5	938.0	1042.0	1096.1
40°	1063.6	1059.6	1035.3	997.5	952.8	946.0	920.4	925.8	1004.1	1151.5	1213.7
42.5°	1112.3	1109.6	1093.4	1062.3	1029.9	1016.3	994.7	987.9	1093.4	1293.4	1324.5
45°	1158.3	1163.7	1163.7	1148.8	1135.3	1132.5	1117.7	1123.1	1208.2	1409.6	1421.8
47.5°	1186.6	1192.0	1174.4	1171.8	1171.8	1173.2	1188.0	1224.5	1312.4	1519.1	1506.9
50°	1271.8	1267.7	1197.4	1208.2	1220.4	1228.5	1260.9	1319.0	1456.9	1617.7	1581.3
52.5°	1425.8	1389.3	1305.6	1281.2	1288.0	1304.2	1347.5	1423.2	1604.3	1705.6	1646.2
55°	1616.4	1594.8	1519.1	1411.0	1375.9	1402.9	1448.8	1525.8	1717.7	1788.0	1697.5
57.5°	1744.8	1752.9	1762.4	1688.0	1524.5	1531.2	1562.4	1627.2	1831.3	1867.8	1738.1
60°	1874.6	1884.0	1936.7	1917.8	1880.0	1817.8	1704.3	1735.3	1916.4	1920.5	1767.8
62.5°	1977.3	1984.0	2062.5	2105.7	2204.3	2212.5	2035.4	1871.9	2005.6	1962.5	1780.0
65°	1925.9	1938.1	2055.7	2175.9	2447.6	2470.6	2412.5	2047.6	2074.5	1978.6	1770.5
67.5°	1752.9	1770.5	1894.8	2150.2	2603.0	2620.6	2563.9	2378.6	2098.9	1971.9	1724.5
70°	1505.6	1531.2	1646.2	1981.3	2624.6	2635.4	2565.1	2448.9	2078.7	1931.3	1625.9
72.5°	1224.5	1244.7	1360.9	1698.9	2493.6	2511.1	2489.6	2390.8	2035.4	1852.9	1427.2
75°	938.0	939.3	1062.3	1331.2	2207.1	2277.3	2313.9	2278.6	1917.8	1629.9	1098.8
77.5°	592.0	609.6	735.2	1008.3	1734.0	1805.6	1821.9	1778.6	1342.1	1000.1	473.0
80°	266.2	293.3	421.7	681.2	1179.8	1177.2	1186.6	1079.8	715.0	317.6	52.7
82.5°	96.0	101.4	177.1	342.0	571.7	586.6	579.8	498.7	193.3	44.6	32.4
85°	40.5	43.3	58.1	91.9	129.8	137.8	119.0	90.6	31.1	25.7	21.6
87.5°	2.6	2.6	2.6	2.6	2.6	4.0	4.0	4.0	4.0	5.4	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°	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2	512.2
2.5°	510.9	512.2	513.6	516.3	516.3	517.7	519.0	520.3	520.3	520.3	520.3
5°	514.9	516.3	517.7	521.7	524.4	525.7	528.5	529.9	531.1	531.1	531.1
7.5°	520.3	521.7	524.4	528.5	532.5	535.3	537.9	539.3	540.6	540.6	540.6
10°	528.5	531.1	535.3	540.6	544.7	544.7	546.0	547.3	548.7	548.7	548.7
12.5°	539.3	541.9	548.7	555.5	556.8	555.5	552.7	552.7	551.4	550.1	550.1
15°	556.8	558.2	567.6	573.0	569.0	562.2	556.8	551.4	547.3	544.7	544.7
17.5°	581.2	585.2	594.6	594.6	583.8	571.7	558.2	544.7	533.9	529.9	528.5
20°	616.3	621.7	629.8	621.7	604.2	582.5	558.2	536.5	514.9	501.4	497.4
22.5°	655.5	662.3	664.9	647.3	621.7	592.0	559.5	525.7	490.6	460.8	452.8
25°	701.4	705.5	696.0	667.7	632.5	594.6	555.5	510.9	456.8	417.7	413.5
27.5°	755.5	751.5	725.8	682.5	635.2	589.2	540.6	481.2	413.5	383.8	379.8
30°	813.6	798.7	751.5	690.6	627.1	573.0	514.9	436.5	381.1	356.8	354.2
32.5°	882.5	852.8	775.7	692.0	612.2	544.7	473.0	400.1	359.4	332.5	329.8
35°	959.6	913.6	797.4	683.9	582.5	505.5	423.1	373.0	336.6	310.9	305.5
37.5°	1063.6	996.1	824.4	666.3	544.7	455.4	386.5	344.6	313.5	285.1	281.1
40°	1170.4	1090.7	862.3	646.1	502.8	414.9	355.4	324.4	297.3	264.9	258.2
42.5°	1277.2	1185.2	913.6	621.7	460.8	383.8	342.0	321.7	289.3	255.4	248.6
45°	1365.1	1266.4	962.2	593.4	418.9	355.4	333.8	316.3	283.9	247.4	239.2
47.5°	1440.7	1334.0	1004.1	567.6	378.4	333.8	327.1	306.7	275.7	239.2	231.2
50°	1504.3	1388.0	1038.0	546.0	344.6	318.9	313.5	289.3	256.8	225.7	220.3
52.5°	1559.6	1427.2	1052.8	539.3	310.9	301.3	291.9	267.6	237.8	209.5	201.4
55°	1596.1	1456.9	1050.2	539.3	278.4	277.1	266.2	247.4	225.7	202.7	194.6
57.5°	1624.5	1470.5	1029.9	460.8	251.4	246.0	239.2	231.2	217.6	191.9	183.8
60°	1638.0	1462.3	986.6	335.2	224.4	214.9	220.3	217.6	204.1	168.9	163.5
62.5°	1629.9	1438.0	889.3	244.6	195.9	194.6	202.7	197.3	171.7	140.6	137.8
65°	1598.9	1377.2	764.9	183.8	179.7	189.2	193.3	182.5	158.1	129.8	119.0
67.5°	1519.1	1259.6	556.8	164.9	174.3	185.1	187.9	173.1	148.7	121.6	108.2
70°	1371.7	1038.0	289.3	152.7	166.3	179.7	178.5	159.5	135.2	110.8	94.6
72.5°	1112.3	736.6	109.4	136.5	154.1	167.6	164.9	143.2	96.0	68.9	62.1
75°	721.7	352.8	94.6	117.6	137.8	150.0	151.4	129.8	83.8	58.1	50.1
77.5°	247.4	64.9	77.1	97.3	119.0	135.2	131.1	104.0	64.9	43.3	39.2
80°	41.9	43.3	59.5	68.9	82.5	108.2	91.9	74.3	51.3	31.1	25.7
82.5°	29.7	36.5	41.9	40.5	56.7	71.7	62.1	50.1	33.8	24.3	21.6
85°	21.6	24.3	23.0	24.3	32.4	47.3	43.3	35.1	24.3	17.6	14.8
87.5°	8.1	8.1	10.8	13.5	20.3	29.7	25.7	10.8	9.4	8.1	8.1
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)