

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: P507501

Luminaire Tested: **VERD-S-CA1-30-740-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507501
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-CA1-30-740-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 590mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4756.6 lumens
Efficiency: N/A
Efficacy: 139.9 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

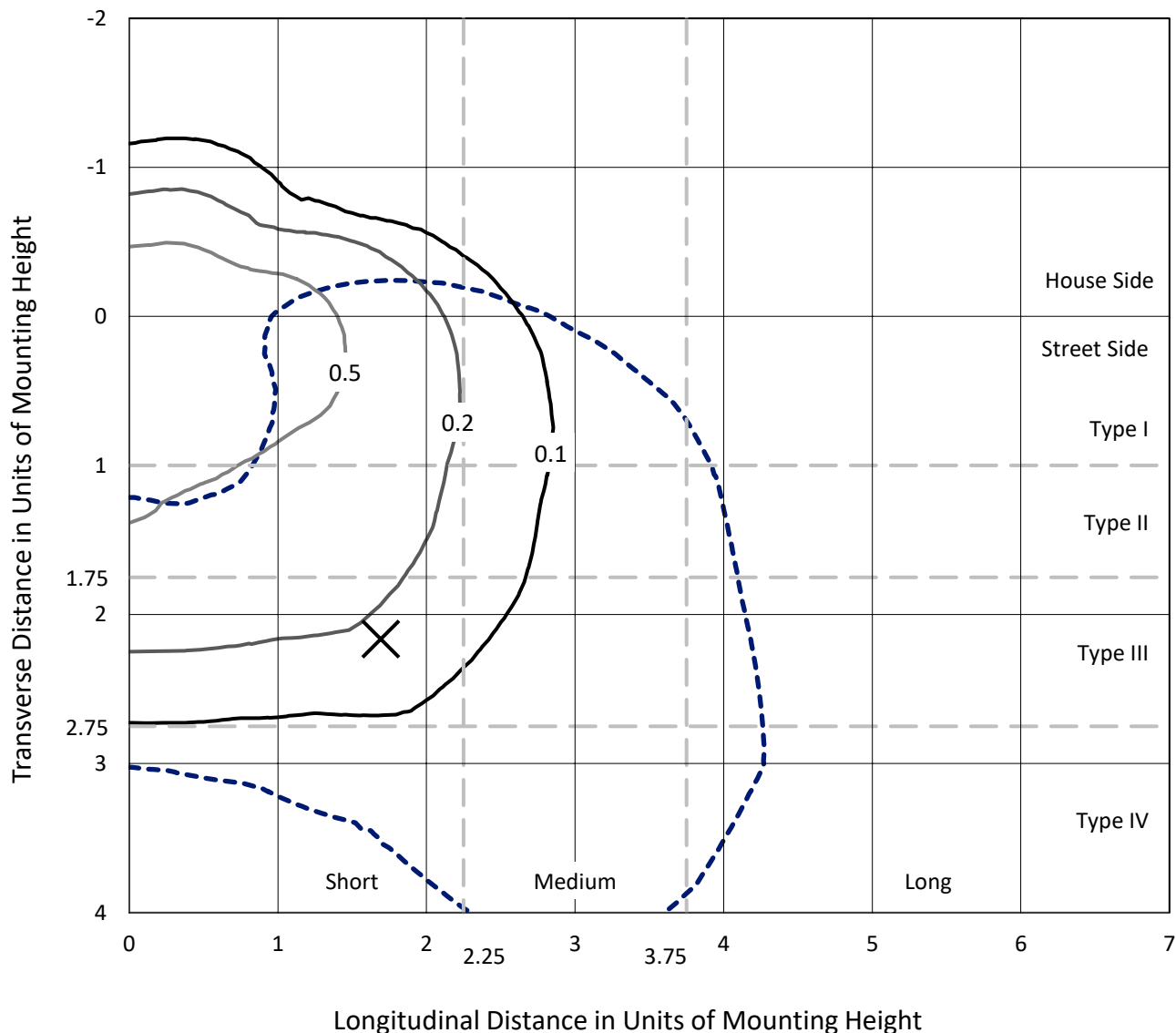
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

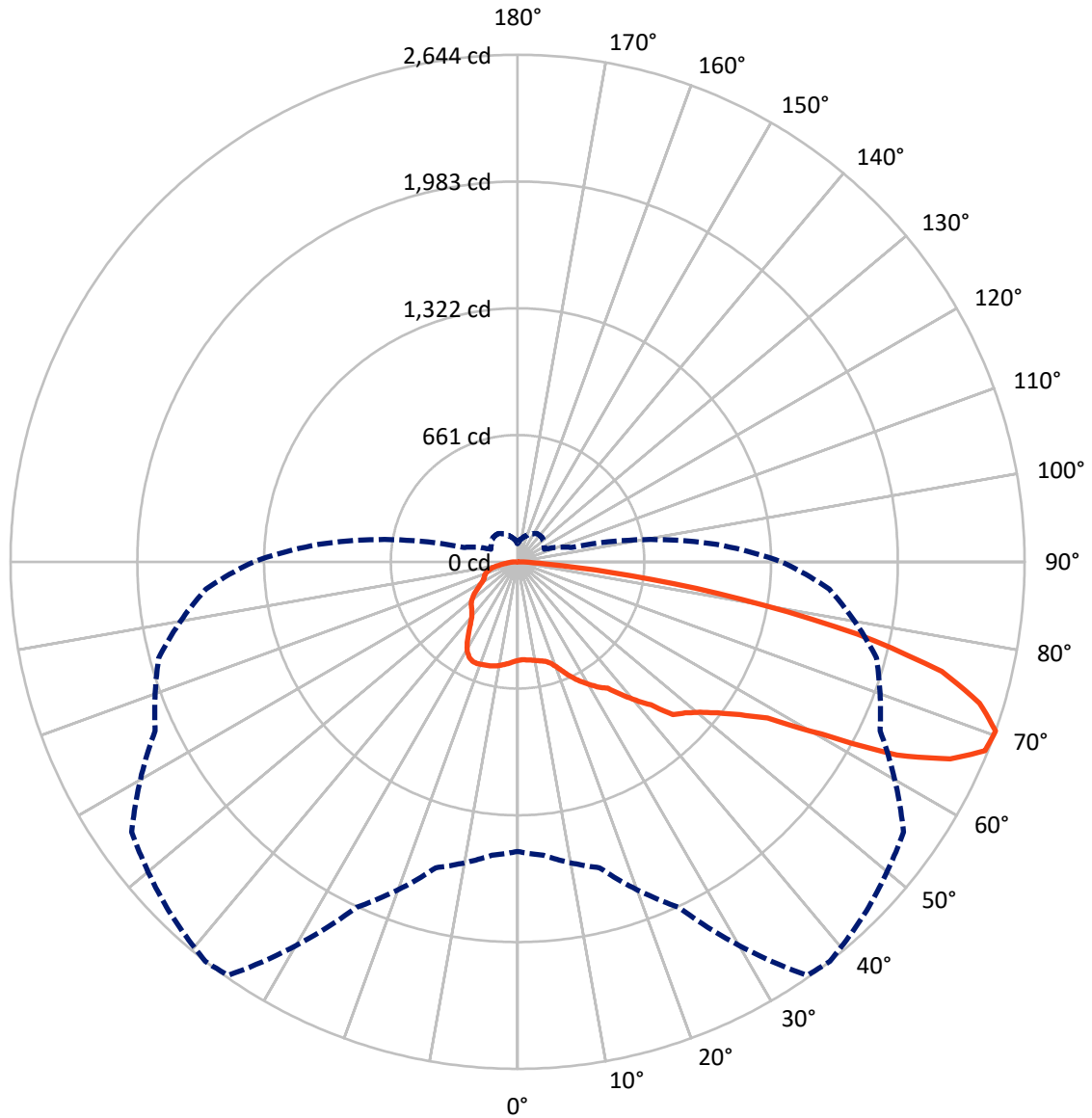
× Max cd
 - - - 1/2 Max cd



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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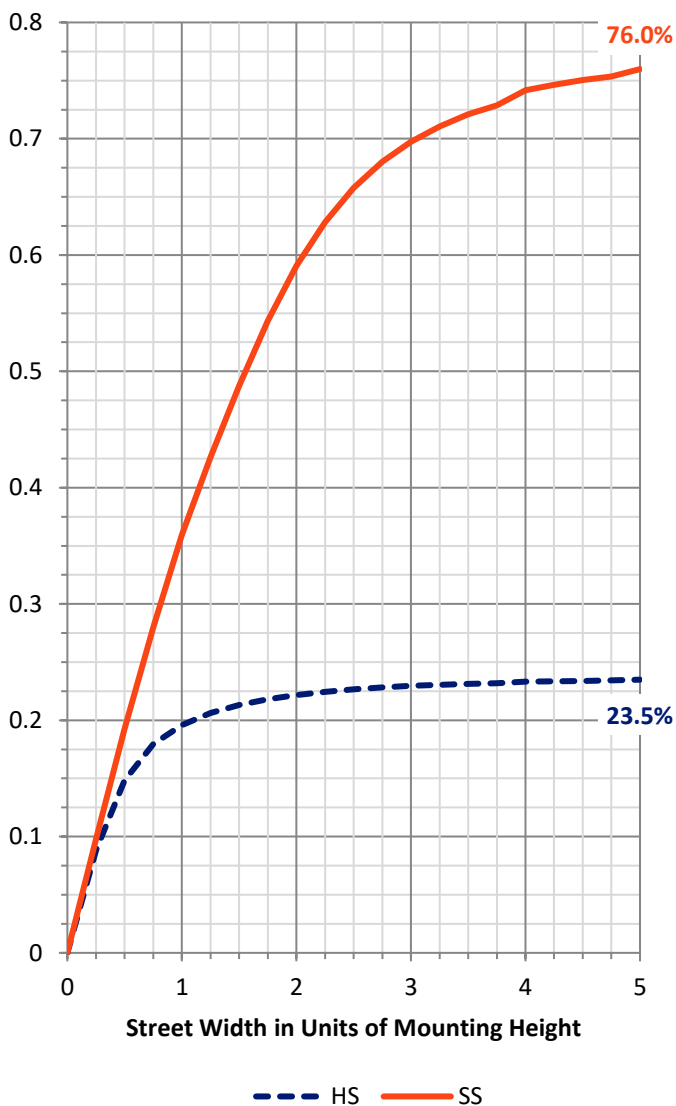
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1129.7	0.0	1129.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3626.9	0.0	3626.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	4756.6	0.0	4756.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.1
10°-20°	157.9	3.3
20°-30°	293.0	6.2
30°-40°	453.6	9.5
40°-50°	672.2	14.1
50°-60°	936.6	19.7
60°-70°	1202.8	25.3
70°-80°	880.0	18.5
80°-90°	110.2	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°	4756.6	100.0
0°-180°	4756.6	100.0

Coefficient of Utilization



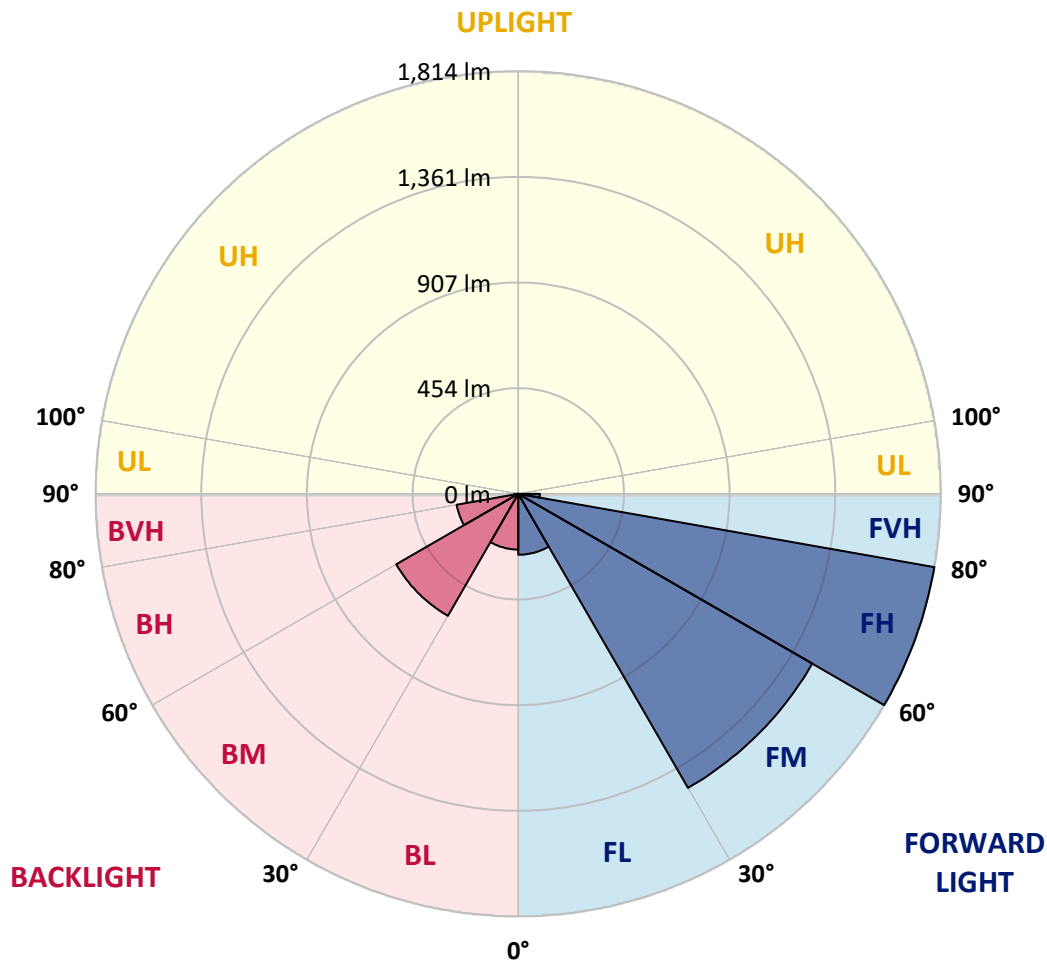
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.7	5.5			
FM (30°-60°)	1457.8	30.6			
FH (60°-80°)	1814.2	38.1			G2/5000
FVH (80°-90°)	93.1	2.0			G1/100
BL (0°-30°)	239.3	5.0	B1/500		
BM (30°-60°)	604.7	12.7	B1/1000		
BH (60°-80°)	268.6	5.6	B1/500		G1/500
BVH (80°-90°)	17.1	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°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	512.6	512.6	512.6	511.2	511.2	511.2	509.9	509.9	511.2	512.6	512.6
5°	516.7	516.7	515.4	515.4	514.0	514.0	514.0	512.6	512.6	512.6	515.4
7.5°	518.0	518.0	518.0	518.0	518.0	518.0	519.4	518.0	518.0	518.0	520.8
10°	518.0	518.0	519.4	519.4	522.1	523.4	524.8	527.6	527.6	527.6	528.9
12.5°	520.8	520.8	522.1	523.4	527.6	530.2	533.0	537.0	538.4	538.4	539.7
15°	526.2	526.2	527.6	531.6	537.0	538.4	542.4	547.9	553.3	554.7	556.0
17.5°	547.9	547.9	547.9	547.9	553.3	554.7	560.1	568.2	573.7	576.3	580.4
20°	591.3	592.7	589.9	588.5	585.9	585.9	585.9	589.9	596.7	606.1	612.9
22.5°	646.9	646.9	646.9	636.1	629.3	627.9	627.9	626.5	631.9	641.5	650.9
25°	690.2	691.6	690.2	680.8	672.6	669.9	669.9	674.0	674.0	682.1	693.0
27.5°	725.6	728.2	724.2	716.0	709.2	707.8	709.2	721.4	728.2	733.6	747.2
30°	763.5	764.8	755.4	750.0	745.8	743.2	744.6	762.2	785.2	792.0	815.0
32.5°	834.0	834.0	820.5	789.3	778.4	779.8	779.8	802.8	834.0	865.3	895.1
35°	900.5	899.1	886.9	859.7	819.1	809.6	815.0	839.5	888.3	941.2	994.0
37.5°	979.2	976.4	965.6	927.6	893.7	878.7	848.9	881.5	941.2	1045.6	1099.9
40°	1067.3	1063.2	1038.8	1000.8	956.0	949.2	923.5	929.0	1007.6	1155.4	1217.8
42.5°	1116.1	1113.3	1097.1	1065.9	1033.4	1019.8	998.1	991.4	1097.1	1297.8	1328.9
45°	1162.2	1167.6	1167.6	1152.7	1139.1	1136.4	1121.5	1126.9	1212.4	1414.4	1426.6
47.5°	1190.6	1196.0	1178.4	1175.8	1175.8	1177.1	1192.0	1228.6	1316.7	1524.3	1512.1
50°	1276.1	1272.0	1201.6	1212.4	1224.6	1232.8	1265.2	1323.5	1461.8	1623.3	1586.7
52.5°	1430.7	1394.1	1310.0	1285.6	1292.4	1308.7	1352.1	1428.0	1609.7	1711.4	1651.8
55°	1621.9	1600.3	1524.3	1415.8	1380.5	1407.6	1453.8	1531.1	1723.6	1794.1	1703.2
57.5°	1750.8	1758.9	1768.4	1693.8	1529.7	1536.5	1567.7	1632.8	1837.5	1874.1	1744.0
60°	1880.9	1890.4	1943.4	1924.4	1886.4	1823.9	1710.0	1741.2	1923.0	1927.0	1773.8
62.5°	1984.0	1990.8	2069.5	2112.8	2211.8	2220.0	2042.3	1878.2	2012.5	1969.0	1786.0
65°	1932.4	1944.6	2062.7	2183.4	2456.0	2479.0	2420.6	2054.5	2081.7	1985.4	1776.5
67.5°	1758.9	1776.5	1901.3	2157.6	2611.9	2629.5	2572.5	2386.8	2106.1	1978.6	1730.4
70°	1510.7	1536.5	1651.8	1988.0	2633.6	2644.4	2573.9	2457.2	2085.7	1937.8	1631.4
72.5°	1228.6	1249.0	1365.6	1704.6	2502.0	2519.7	2498.0	2399.0	2042.3	1859.3	1432.0
75°	941.2	942.5	1065.9	1335.7	2214.6	2285.1	2321.7	2286.4	1924.4	1635.5	1102.5
77.5°	593.9	611.7	737.8	1011.6	1739.9	1811.7	1828.1	1784.7	1346.7	1003.6	474.6
80°	267.2	294.3	423.1	683.5	1183.9	1181.2	1190.6	1083.5	717.4	318.7	52.9
82.5°	96.3	101.7	177.7	343.1	573.7	588.5	581.7	500.4	193.9	44.8	32.6
85°	40.7	43.4	58.3	92.2	130.1	138.3	119.3	90.9	31.2	25.8	21.7
87.5°	2.8	2.8	2.8	2.8	2.8	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°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	512.6	514.0	515.4	518.0	518.0	519.4	520.8	522.1	522.1	522.1	522.1
5°	516.7	518.0	519.4	523.4	526.2	527.6	530.2	531.6	533.0	533.0	533.0
7.5°	522.1	523.4	526.2	530.2	534.3	537.0	539.7	541.1	542.4	542.4	542.4
10°	530.2	533.0	537.0	542.4	546.5	546.5	547.9	549.2	550.6	550.6	550.6
12.5°	541.1	543.8	550.6	557.4	558.7	557.4	554.7	554.7	553.3	551.9	551.9
15°	558.7	560.1	569.5	575.0	570.9	564.1	558.7	553.3	549.2	546.5	546.5
17.5°	583.1	587.2	596.7	596.7	585.9	573.7	560.1	546.5	535.7	531.6	530.2
20°	618.3	623.9	631.9	623.9	606.1	584.5	560.1	538.4	516.7	503.2	499.0
22.5°	657.7	664.5	667.2	649.6	623.9	593.9	561.4	527.6	492.2	462.4	454.3
25°	703.8	707.8	698.4	669.9	634.7	596.7	557.4	512.6	458.4	419.0	415.0
27.5°	758.0	754.0	728.2	684.8	637.3	591.3	542.4	482.8	415.0	385.1	381.1
30°	816.4	801.5	754.0	693.0	629.3	575.0	516.7	438.0	382.5	358.1	355.3
32.5°	885.5	855.7	778.4	694.4	614.3	546.5	474.6	401.4	360.7	333.6	330.9
35°	962.8	916.7	800.1	686.2	584.5	507.2	424.5	374.3	337.7	311.9	306.5
37.5°	1067.3	999.4	827.3	668.6	546.5	457.0	387.9	345.8	314.6	286.2	282.1
40°	1174.4	1094.3	865.3	648.2	504.4	416.3	356.7	325.5	298.4	265.8	259.0
42.5°	1281.5	1189.3	916.7	623.9	462.4	385.1	343.1	322.7	290.2	256.4	249.6
45°	1369.7	1270.7	965.6	595.3	420.4	356.7	334.9	317.3	284.8	248.2	240.0
47.5°	1445.6	1338.5	1007.6	569.5	379.7	334.9	328.2	307.8	276.6	240.0	231.8
50°	1509.4	1392.7	1041.5	547.9	345.8	320.1	314.6	290.2	257.6	226.4	221.0
52.5°	1564.9	1432.0	1056.4	541.1	311.9	302.4	292.9	268.6	238.6	210.2	202.0
55°	1601.5	1461.8	1053.7	541.1	279.4	278.0	267.2	248.2	226.4	203.4	195.3
57.5°	1630.1	1475.4	1033.4	462.4	252.2	246.8	240.0	231.8	218.4	192.6	184.4
60°	1643.6	1467.4	990.0	336.3	225.1	215.6	221.0	218.4	204.8	169.5	164.1
62.5°	1635.5	1442.9	892.3	245.4	196.6	195.3	203.4	198.0	172.2	141.1	138.3
65°	1604.3	1381.9	767.6	184.4	180.4	189.8	193.9	183.1	158.7	130.1	119.3
67.5°	1524.3	1263.9	558.7	165.5	174.9	185.8	188.5	173.6	149.1	122.1	108.5
70°	1376.5	1041.5	290.2	153.3	166.8	180.4	179.0	160.0	135.7	111.1	94.9
72.5°	1116.1	739.0	109.9	136.9	154.6	168.1	165.5	143.7	96.3	69.2	62.4
75°	724.2	353.9	94.9	117.9	138.3	150.5	151.9	130.1	84.1	58.3	50.2
77.5°	248.2	65.1	77.3	97.7	119.3	135.7	131.5	104.5	65.1	43.4	39.4
80°	42.0	43.4	59.7	69.2	82.7	108.5	92.2	74.6	51.5	31.2	25.8
82.5°	29.8	36.6	42.0	40.7	57.0	71.9	62.4	50.2	33.9	24.4	21.7
85°	21.7	24.4	23.0	24.4	32.6	47.5	43.4	35.2	24.4	17.6	15.0
87.5°	8.2	8.2	10.8	13.6	20.4	29.8	25.8	10.8	9.5	8.2	8.2
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)