

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: P507525

Luminaire Tested: **VERD-S-CA1-40-722-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507525
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-CA1-40-722-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 760mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922 lumens
Efficiency: N/A
Efficacy: 113.4 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

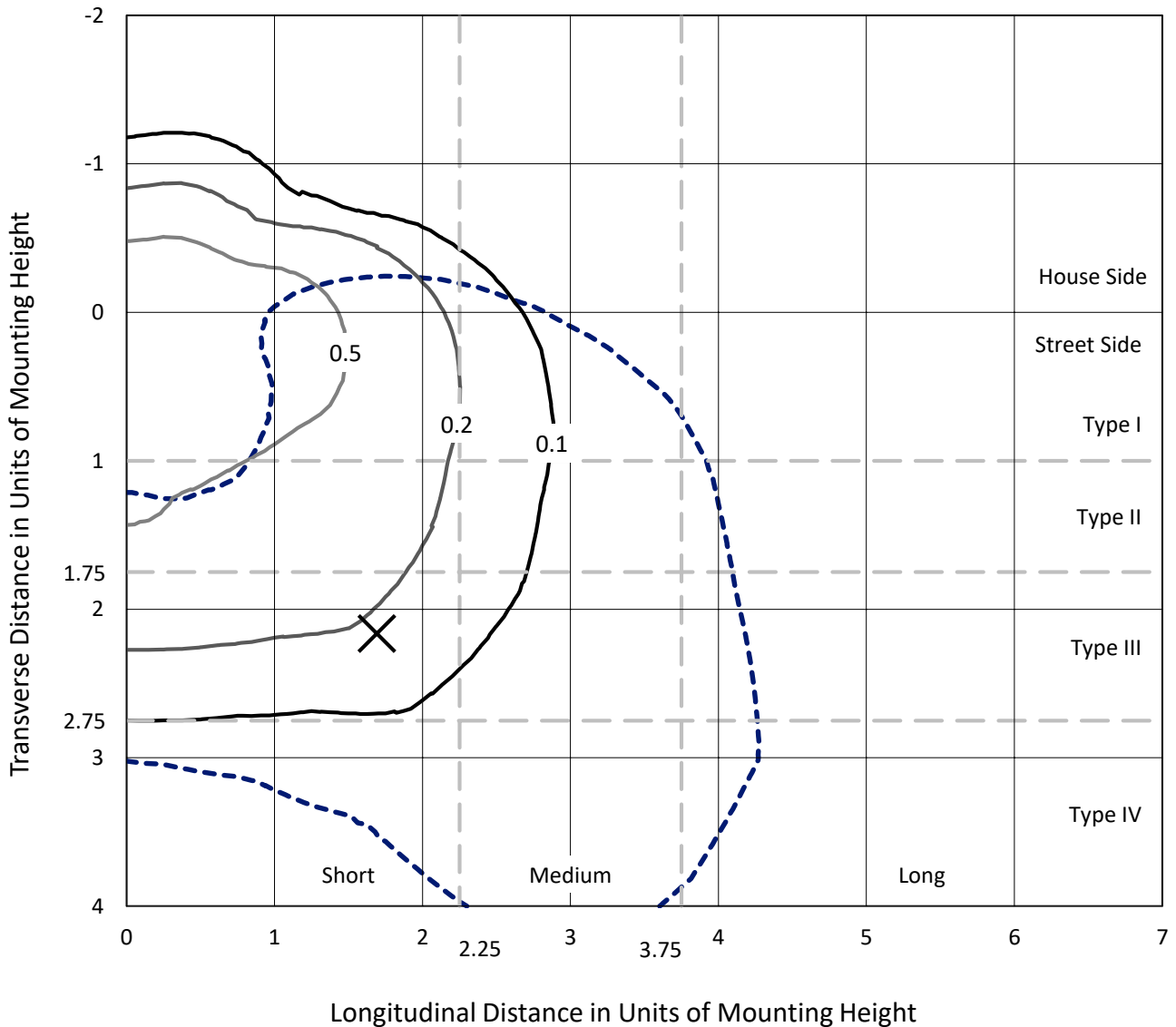
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

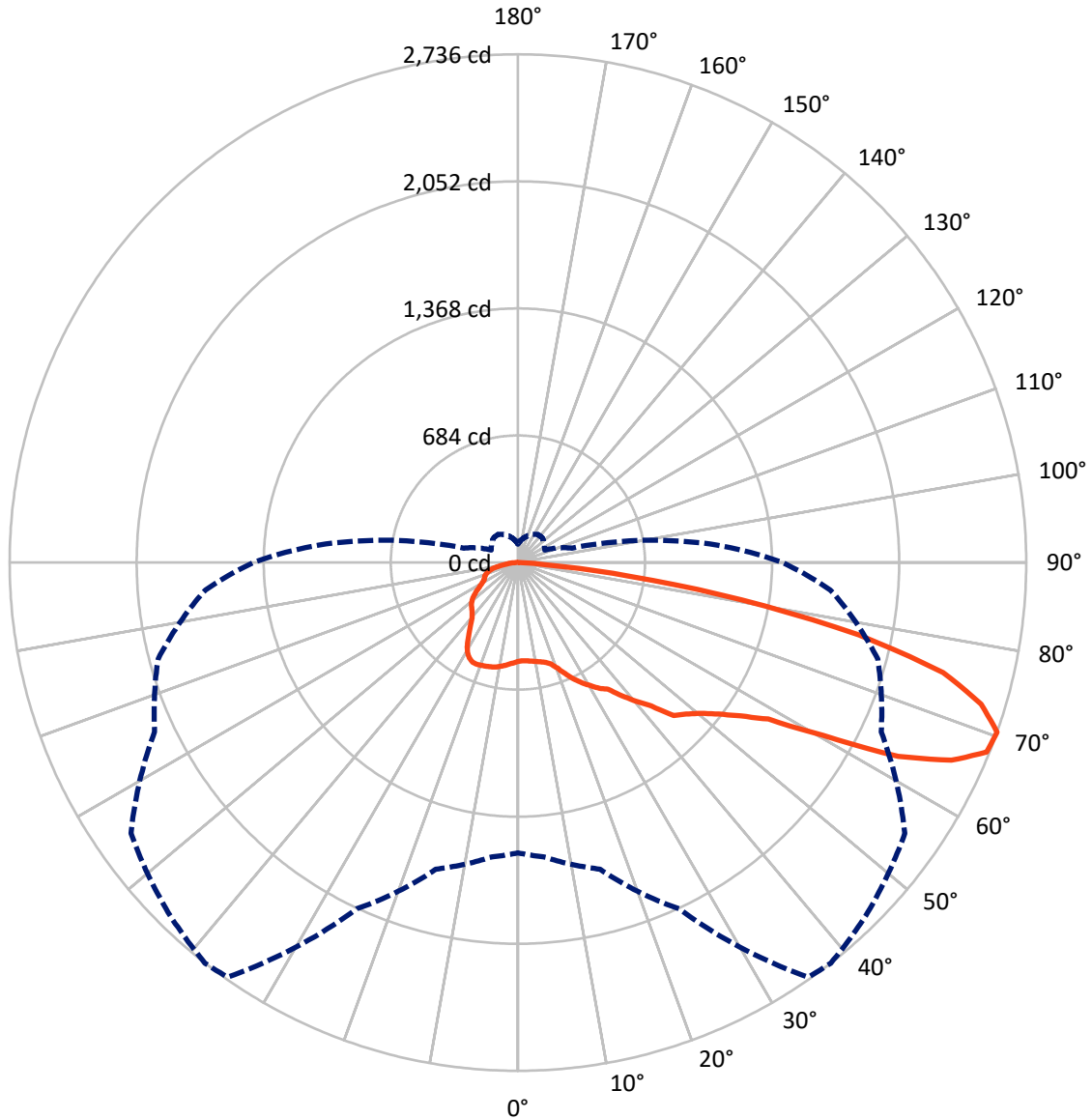
✕ Max cd
 - - - 1/2 Max cd



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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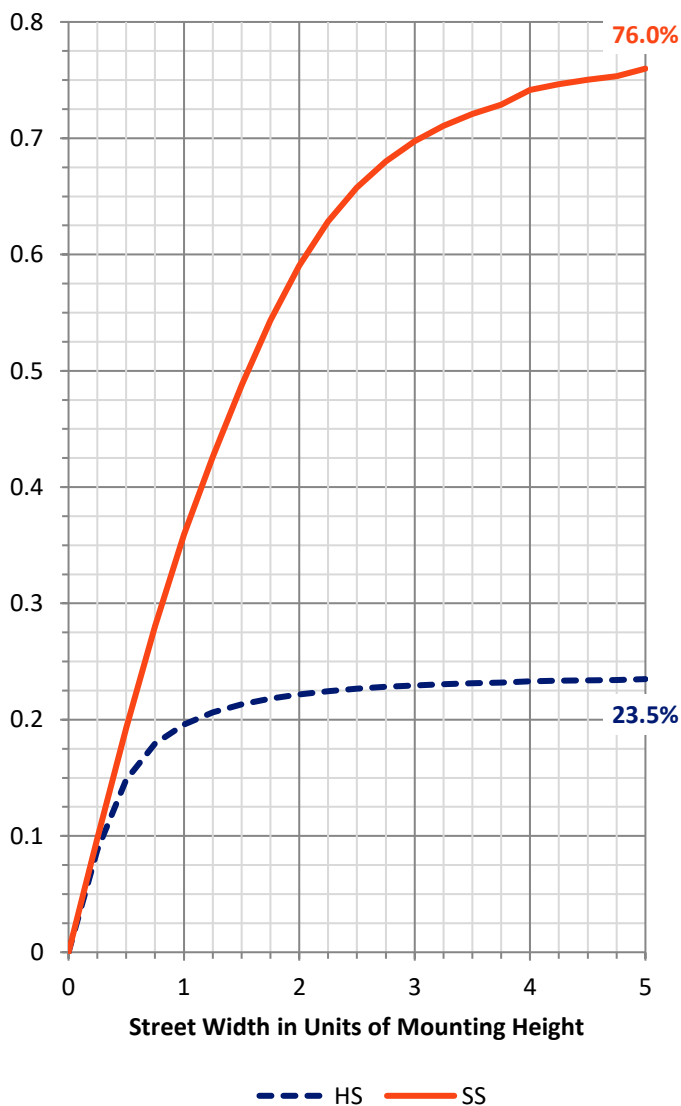
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.0	0.0	1169.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3753.0	0.0	3753.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	4922.0	0.0	4922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.1
10°-20°	163.4	3.3
20°-30°	303.2	6.2
30°-40°	469.4	9.5
40°-50°	695.6	14.1
50°-60°	969.2	19.7
60°-70°	1244.7	25.3
70°-80°	910.6	18.5
80°-90°	114.1	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°	4922.0	100.0
0°-180°	4922.0	100.0

Coefficient of Utilization



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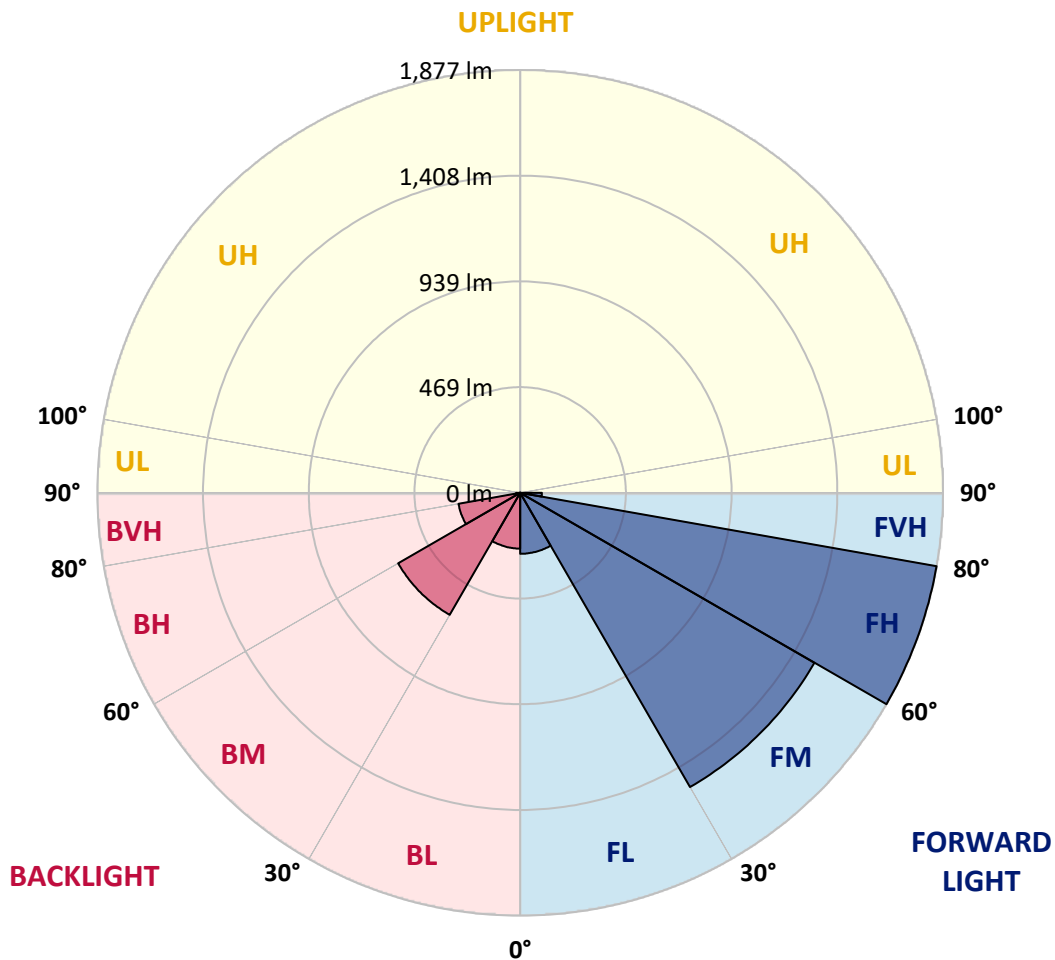
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.8	5.5			
FM (30°-60°)	1508.5	30.6			
FH (60°-80°)	1877.3	38.1			G2/5000
FVH (80°-90°)	96.4	2.0			G1/100
BL (0°-30°)	247.6	5.0	B1/500		
BM (30°-60°)	625.7	12.7	B1/1000		
BH (60°-80°)	278.0	5.6	B1/500		G1/500
BVH (80°-90°)	17.7	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°	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8
2.5°	530.4	530.4	530.4	529.0	529.0	529.0	527.6	527.6	529.0	530.4	530.4
5°	534.6	534.6	533.2	533.2	531.8	531.8	531.8	530.4	530.4	530.4	533.2
7.5°	536.1	536.1	536.1	536.1	536.1	536.1	537.5	536.1	536.1	536.1	538.9
10°	536.1	536.1	537.5	537.5	540.3	541.7	543.1	545.9	545.9	545.9	547.3
12.5°	538.9	538.9	540.3	541.7	545.9	548.7	551.5	555.7	557.1	557.1	558.5
15°	544.5	544.5	545.9	550.1	555.7	557.1	561.3	566.9	572.5	573.9	575.3
17.5°	566.9	566.9	566.9	566.9	572.5	573.9	579.6	588.0	593.6	596.4	600.6
20°	611.8	613.2	610.4	609.0	606.2	606.2	606.2	610.4	617.4	627.3	634.3
22.5°	669.4	669.4	669.4	658.1	651.1	649.7	649.7	648.3	653.9	663.7	673.6
25°	714.3	715.7	714.3	704.4	696.0	693.2	693.2	697.4	697.4	705.8	717.1
27.5°	750.8	753.6	749.3	740.9	733.9	732.5	733.9	746.5	753.6	759.2	773.2
30°	790.0	791.4	781.6	776.0	771.8	769.0	770.4	788.6	812.5	819.5	843.4
32.5°	863.0	863.0	849.0	816.7	805.5	806.9	806.9	830.7	863.0	895.3	926.2
35°	931.8	930.4	917.7	889.7	847.6	837.8	843.4	868.6	919.1	973.9	1028.6
37.5°	1013.2	1010.4	999.1	959.8	924.8	909.3	878.5	912.1	973.9	1081.9	1138.1
40°	1104.4	1100.2	1074.9	1035.6	989.3	982.3	955.6	961.2	1042.6	1195.6	1260.1
42.5°	1154.9	1152.1	1135.2	1103.0	1069.3	1055.3	1032.8	1025.8	1135.2	1342.9	1375.2
45°	1202.6	1208.2	1208.2	1192.8	1178.8	1175.9	1160.5	1166.1	1254.5	1463.6	1476.2
47.5°	1232.1	1237.7	1219.4	1216.6	1216.6	1218.0	1233.5	1271.4	1362.6	1577.3	1564.7
50°	1320.5	1316.3	1243.3	1254.5	1267.2	1275.6	1309.3	1369.6	1512.7	1679.7	1641.8
52.5°	1480.5	1442.6	1355.6	1330.3	1337.3	1354.2	1399.1	1477.6	1665.7	1770.9	1709.2
55°	1678.3	1655.9	1577.3	1465.0	1428.5	1456.6	1504.3	1584.3	1783.6	1856.5	1762.5
57.5°	1811.6	1820.0	1829.9	1752.7	1582.9	1589.9	1622.2	1689.5	1901.4	1939.3	1804.6
60°	1946.3	1956.2	2010.9	1991.2	1952.0	1887.4	1769.5	1801.8	1989.8	1994.1	1835.5
62.5°	2053.0	2060.0	2141.4	2186.3	2288.7	2297.2	2113.3	1943.5	2082.5	2037.6	1848.1
65°	1999.7	2012.3	2134.4	2259.3	2541.3	2565.2	2504.8	2126.0	2154.0	2054.4	1838.3
67.5°	1820.0	1838.3	1967.4	2232.6	2702.7	2721.0	2662.0	2469.8	2179.3	2047.4	1790.6
70°	1563.2	1589.9	1709.2	2057.2	2725.2	2736.4	2663.4	2542.7	2158.2	2005.3	1688.1
72.5°	1271.4	1292.4	1413.1	1763.9	2589.0	2607.3	2584.8	2482.4	2113.3	1923.9	1481.9
75°	973.9	975.3	1103.0	1382.2	2291.5	2364.5	2402.4	2365.9	1991.2	1692.3	1140.9
77.5°	614.6	632.9	763.4	1046.8	1800.4	1874.8	1891.6	1846.7	1393.5	1038.4	491.1
80°	276.4	304.5	437.8	707.3	1225.1	1222.3	1232.1	1121.2	742.3	329.8	54.7
82.5°	99.6	105.2	183.8	355.0	593.6	609.0	602.0	517.8	200.7	46.3	33.7
85°	42.1	44.9	60.3	95.4	134.7	143.1	123.5	94.0	32.3	26.7	22.5
87.5°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	5.6	7.0
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°	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8
2.5°	530.4	531.8	533.2	536.1	536.1	537.5	538.9	540.3	540.3	540.3	540.3
5°	534.6	536.1	537.5	541.7	544.5	545.9	548.7	550.1	551.5	551.5	551.5
7.5°	540.3	541.7	544.5	548.7	552.9	555.7	558.5	559.9	561.3	561.3	561.3
10°	548.7	551.5	555.7	561.3	565.5	565.5	566.9	568.3	569.7	569.7	569.7
12.5°	559.9	562.7	569.7	576.7	578.1	576.7	573.9	573.9	572.5	571.1	571.1
15°	578.1	579.6	589.4	595.0	590.8	583.8	578.1	572.5	568.3	565.5	565.5
17.5°	603.4	607.6	617.4	617.4	606.2	593.6	579.6	565.5	554.3	550.1	548.7
20°	639.9	645.5	653.9	645.5	627.3	604.8	579.6	557.1	534.6	520.6	516.4
22.5°	680.6	687.6	690.4	672.2	645.5	614.6	581.0	545.9	509.4	478.5	470.1
25°	728.3	732.5	722.7	693.2	656.7	617.4	576.7	530.4	474.3	433.6	429.4
27.5°	784.4	780.2	753.6	708.7	659.5	611.8	561.3	499.6	429.4	398.5	394.3
30°	844.8	829.3	780.2	717.1	651.1	595.0	534.6	453.3	395.7	370.5	367.7
32.5°	916.3	885.5	805.5	718.5	635.7	565.5	491.1	415.4	373.3	345.2	342.4
35°	996.3	948.6	827.9	710.1	604.8	524.8	439.2	387.3	349.4	322.8	317.1
37.5°	1104.4	1034.2	856.0	691.8	565.5	472.9	401.3	357.8	325.6	296.1	291.9
40°	1215.2	1132.4	895.3	670.8	522.0	430.8	369.1	336.8	308.7	275.0	268.0
42.5°	1326.1	1230.7	948.6	645.5	478.5	398.5	355.0	334.0	300.3	265.2	258.2
45°	1417.3	1314.9	999.1	616.0	435.0	369.1	346.6	328.4	294.7	256.8	248.4
47.5°	1495.9	1385.0	1042.6	589.4	392.9	346.6	339.6	318.5	286.3	248.4	240.0
50°	1561.8	1441.2	1077.7	566.9	357.8	331.2	325.6	300.3	266.6	234.3	228.7
52.5°	1619.4	1481.9	1093.2	559.9	322.8	312.9	303.1	277.8	247.0	217.5	209.1
55°	1657.3	1512.7	1090.3	559.9	289.1	287.7	276.4	256.8	234.3	210.5	202.1
57.5°	1686.7	1526.8	1069.3	478.5	261.0	255.4	248.4	240.0	225.9	199.3	190.8
60°	1700.8	1518.3	1024.4	348.0	232.9	223.1	228.7	225.9	211.9	175.4	169.8
62.5°	1692.3	1493.1	923.4	254.0	203.5	202.1	210.5	204.9	178.2	145.9	143.1
65°	1660.1	1429.9	794.3	190.8	186.6	196.5	200.7	189.4	164.2	134.7	123.5
67.5°	1577.3	1307.9	578.1	171.2	181.0	192.2	195.1	179.6	154.4	126.3	112.3
70°	1424.3	1077.7	300.3	158.6	172.6	186.6	185.2	165.6	140.3	115.1	98.2
72.5°	1154.9	764.8	113.7	141.7	160.0	174.0	171.2	148.7	99.6	71.6	64.6
75°	749.3	366.3	98.2	122.1	143.1	155.8	157.2	134.7	87.0	60.3	51.9
77.5°	256.8	67.4	80.0	101.0	123.5	140.3	136.1	108.1	67.4	44.9	40.7
80°	43.5	44.9	61.7	71.6	85.6	112.3	95.4	77.2	53.3	32.3	26.7
82.5°	30.9	37.9	43.5	42.1	58.9	74.4	64.6	51.9	35.1	25.3	22.5
85°	22.5	25.3	23.9	25.3	33.7	49.1	44.9	36.5	25.3	18.2	15.4
87.5°	8.4	8.4	11.2	14.0	21.0	30.9	26.7	11.2	9.8	8.4	8.4
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)