

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: P507541

Luminaire Tested: **VERD-S-CA1-40-730-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507541
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-CA1-40-730-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 760mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5930 lumens
Efficiency: N/A
Efficacy: 136.6 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

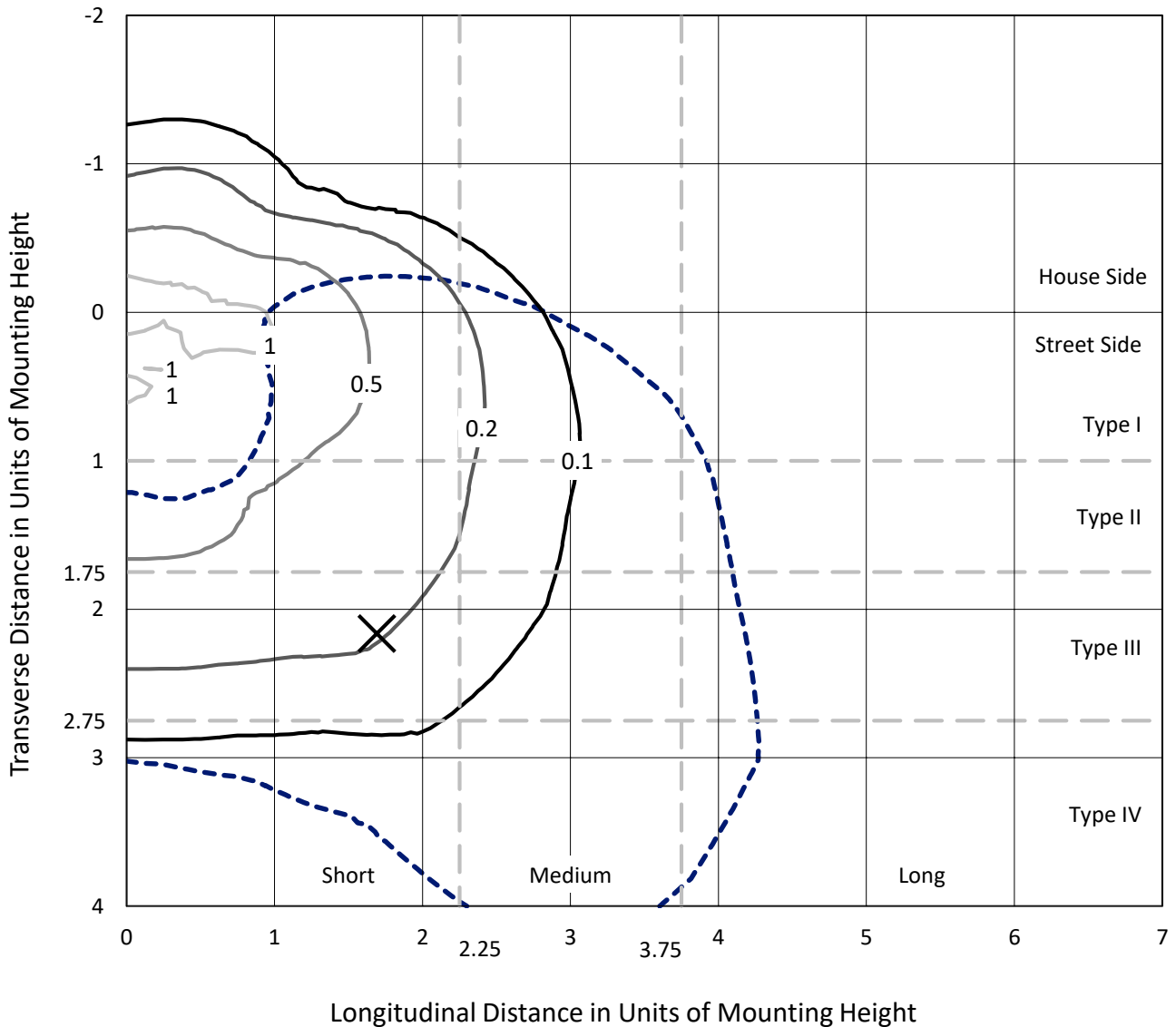


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Iso-Footcandle Lines of Horizontal Illumination

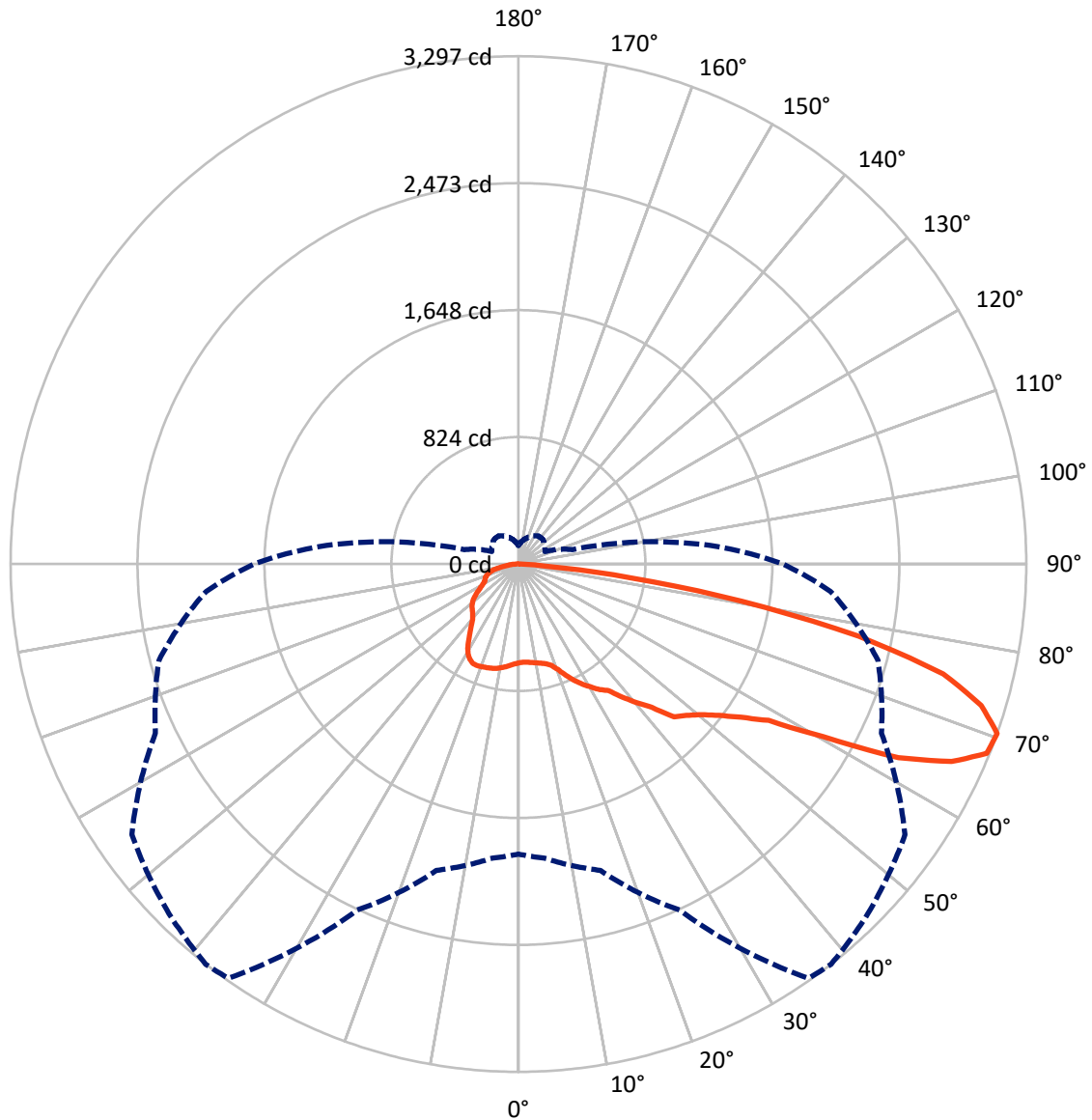
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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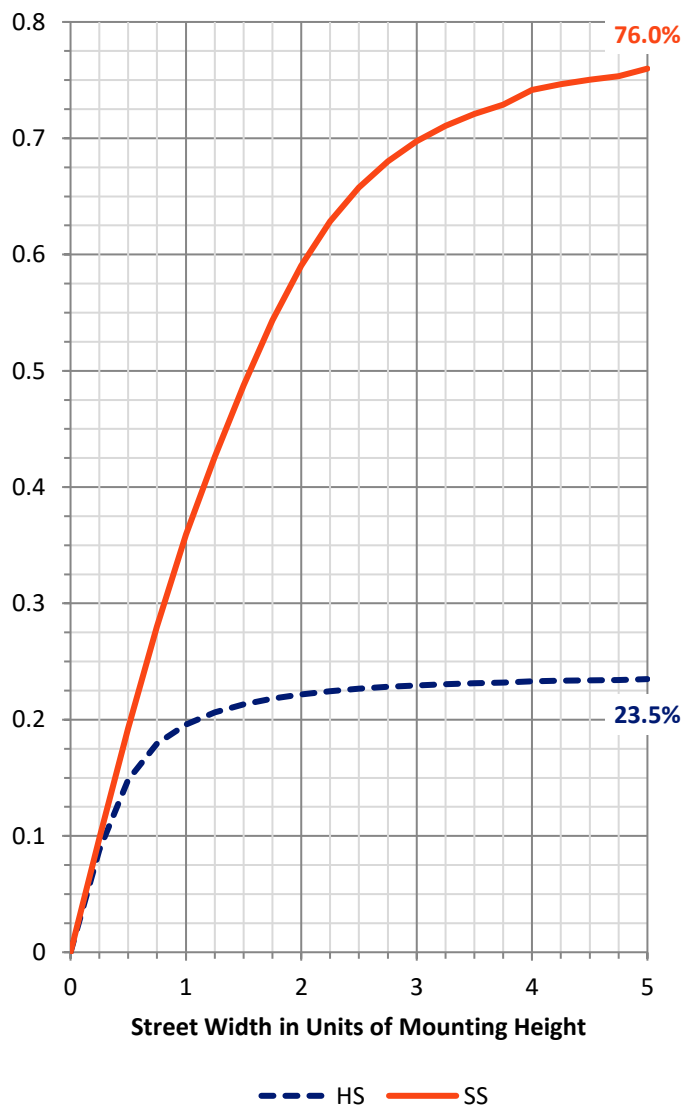
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1408.4	0.0	1408.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4521.6	0.0	4521.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	5930.0	0.0	5930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	1.1
10°-20°	196.9	3.3
20°-30°	365.3	6.2
30°-40°	565.5	9.5
40°-50°	838.0	14.1
50°-60°	1167.7	19.7
60°-70°	1499.6	25.3
70°-80°	1097.1	18.5
80°-90°	137.4	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°	5930.0	100.0
0°-180°	5930.0	100.0

Coefficient of Utilization



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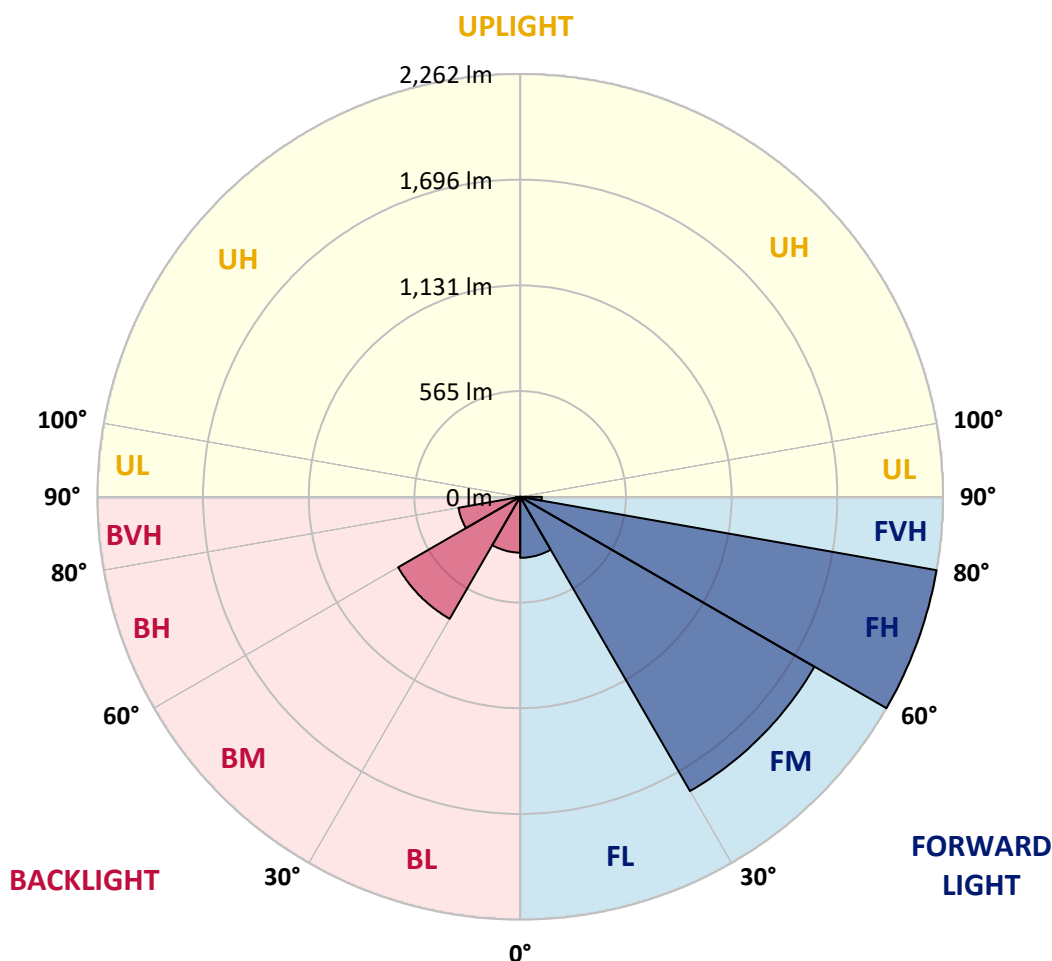
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.3	5.5			
FM	(30°-60°)	1817.4	30.6			
FH	(60°-80°)	2261.7	38.1			G2/5000
FVH	(80°-90°)	116.1	2.0			G2/225
BL	(0°-30°)	298.4	5.0	B1/500		
BM	(30°-60°)	753.8	12.7	B1/1000		
BH	(60°-80°)	334.9	5.6	B1/500		G1/500
BVH	(80°-90°)	21.3	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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	639.1	639.1	639.1	637.4	637.4	637.4	635.7	635.7	637.4	639.1	639.1
5°	644.1	644.1	642.5	642.5	640.8	640.8	640.8	639.1	639.1	639.1	642.5
7.5°	645.8	645.8	645.8	645.8	645.8	645.8	647.5	645.8	645.8	645.8	649.2
10°	645.8	645.8	647.5	647.5	650.9	652.6	654.3	657.7	657.7	657.7	659.4
12.5°	649.2	649.2	650.9	652.6	657.7	661.0	664.4	669.5	671.2	671.2	672.9
15°	656.0	656.0	657.7	662.7	669.5	671.2	676.3	683.0	689.8	691.5	693.2
17.5°	683.0	683.0	683.0	683.0	689.8	691.5	698.2	708.4	715.1	718.5	723.6
20°	737.1	738.8	735.4	733.7	730.4	730.4	730.4	735.4	743.9	755.7	764.2
22.5°	806.4	806.4	806.4	792.9	784.5	782.8	782.8	781.1	787.8	799.7	811.5
25°	860.5	862.2	860.5	848.7	838.6	835.2	835.2	840.3	840.3	850.4	863.9
27.5°	904.5	907.9	902.8	892.7	884.2	882.5	884.2	899.4	907.9	914.6	931.6
30°	951.8	953.5	941.7	934.9	929.9	926.5	928.2	950.2	978.9	987.3	1016.1
32.5°	1039.8	1039.8	1022.8	984.0	970.4	972.1	972.1	1000.9	1039.8	1078.6	1115.8
35°	1122.6	1120.9	1105.7	1071.9	1021.2	1009.3	1016.1	1046.5	1107.4	1173.3	1239.3
37.5°	1220.7	1217.3	1203.7	1156.4	1114.1	1095.5	1058.4	1098.9	1173.3	1303.5	1371.1
40°	1330.5	1325.5	1295.0	1247.7	1191.9	1183.5	1151.3	1158.1	1256.2	1440.4	1518.2
42.5°	1391.4	1388.0	1367.7	1328.9	1288.3	1271.4	1244.3	1235.9	1367.7	1618.0	1656.8
45°	1448.9	1455.7	1455.7	1437.1	1420.2	1416.8	1398.2	1404.9	1511.4	1763.4	1778.6
47.5°	1484.4	1491.2	1469.2	1465.8	1465.8	1467.5	1486.1	1531.7	1641.6	1900.3	1885.1
50°	1590.9	1585.8	1497.9	1511.4	1526.7	1536.8	1577.4	1650.1	1822.5	2023.7	1978.1
52.5°	1783.6	1738.0	1633.2	1602.7	1611.2	1631.5	1685.6	1780.3	2006.8	2133.6	2059.2
55°	2022.0	1995.0	1900.3	1765.0	1721.1	1754.9	1812.4	1908.8	2148.8	2236.7	2123.5
57.5°	2182.6	2192.8	2204.6	2111.6	1907.1	1915.5	1954.4	2035.6	2290.8	2336.5	2174.2
60°	2344.9	2356.8	2422.7	2399.0	2351.7	2273.9	2131.9	2170.8	2397.4	2402.4	2211.4
62.5°	2473.4	2481.9	2579.9	2634.0	2757.5	2767.6	2546.1	2341.6	2508.9	2454.8	2226.6
65°	2409.2	2424.4	2571.5	2722.0	3061.8	3090.5	3017.8	2561.3	2595.2	2475.1	2214.8
67.5°	2192.8	2214.8	2370.3	2689.8	3256.2	3278.2	3207.2	2975.6	2625.6	2466.7	2157.3
70°	1883.4	1915.5	2059.2	2478.5	3283.3	3296.8	3208.9	3063.5	2600.2	2416.0	2033.9
72.5°	1531.7	1557.1	1702.5	2125.2	3119.3	3141.2	3114.2	2990.8	2546.1	2317.9	1785.3
75°	1173.3	1175.0	1328.9	1665.3	2760.8	2848.8	2894.4	2850.5	2399.0	2038.9	1374.5
77.5°	740.5	762.5	919.7	1261.2	2169.1	2258.7	2279.0	2224.9	1678.8	1251.1	591.7
80°	333.1	366.9	527.5	852.1	1475.9	1472.6	1484.4	1350.8	894.4	397.3	65.9
82.5°	120.0	126.8	221.5	427.7	715.1	733.7	725.3	623.9	241.8	55.8	40.6
85°	50.7	54.1	72.7	115.0	162.3	172.4	148.8	113.3	38.9	32.1	27.1
87.5°	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	6.8	8.5
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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	639.1	640.8	642.5	645.8	645.8	647.5	649.2	650.9	650.9	650.9	650.9
5°	644.1	645.8	647.5	652.6	656.0	657.7	661.0	662.7	664.4	664.4	664.4
7.5°	650.9	652.6	656.0	661.0	666.1	669.5	672.9	674.6	676.3	676.3	676.3
10°	661.0	664.4	669.5	676.3	681.3	681.3	683.0	684.7	686.4	686.4	686.4
12.5°	674.6	678.0	686.4	694.9	696.6	694.9	691.5	691.5	689.8	688.1	688.1
15°	696.6	698.2	710.1	716.8	711.8	703.3	696.6	689.8	684.7	681.3	681.3
17.5°	727.0	732.1	743.9	743.9	730.4	715.1	698.2	681.3	667.8	662.7	661.0
20°	770.9	777.7	787.8	777.7	755.7	728.7	698.2	671.2	644.1	627.2	622.2
22.5°	820.0	828.4	831.8	809.8	777.7	740.5	699.9	657.7	613.7	576.5	566.4
25°	877.5	882.5	870.7	835.2	791.2	743.9	694.9	639.1	571.4	522.4	517.3
27.5°	945.1	940.0	907.9	853.8	794.6	737.1	676.3	601.9	517.3	480.1	475.1
30°	1017.8	999.2	940.0	863.9	784.5	716.8	644.1	546.1	476.8	446.3	443.0
32.5°	1104.0	1066.8	970.4	865.6	765.9	681.3	591.7	500.4	449.7	415.9	412.5
35°	1200.4	1142.9	997.5	855.5	728.7	632.3	529.2	466.6	421.0	388.9	382.1
37.5°	1330.5	1246.0	1031.3	833.5	681.3	569.8	483.5	431.1	392.2	356.7	351.7
40°	1464.1	1364.4	1078.6	808.1	628.9	519.0	444.6	405.8	371.9	331.4	322.9
42.5°	1597.7	1482.7	1142.9	777.7	576.5	480.1	427.7	402.4	361.8	319.5	311.1
45°	1707.6	1584.1	1203.7	742.2	524.1	444.6	417.6	395.6	355.0	309.4	299.2
47.5°	1802.2	1668.7	1256.2	710.1	473.4	417.6	409.1	383.8	344.9	299.2	289.1
50°	1881.7	1736.3	1298.4	683.0	431.1	399.0	392.2	361.8	321.2	282.3	275.6
52.5°	1951.0	1785.3	1317.0	674.6	388.9	377.0	365.2	334.8	297.6	262.1	251.9
55°	1996.7	1822.5	1313.6	674.6	348.3	346.6	333.1	309.4	282.3	253.6	243.5
57.5°	2032.2	1839.4	1288.3	576.5	314.5	307.7	299.2	289.1	272.2	240.1	229.9
60°	2049.1	1829.3	1234.2	419.3	280.6	268.8	275.6	272.2	255.3	211.3	204.6
62.5°	2038.9	1798.9	1112.5	306.0	245.1	243.5	253.6	246.8	214.7	175.8	172.4
65°	2000.0	1722.8	956.9	229.9	224.9	236.7	241.8	228.2	197.8	162.3	148.8
67.5°	1900.3	1575.7	696.6	206.3	218.1	231.6	235.0	216.4	186.0	152.2	135.3
70°	1716.0	1298.4	361.8	191.0	208.0	224.9	223.2	199.5	169.1	138.6	118.3
72.5°	1391.4	921.4	136.9	170.8	192.7	209.6	206.3	179.2	120.0	86.2	77.8
75°	902.8	441.3	118.3	147.1	172.4	187.7	189.4	162.3	104.8	72.7	62.6
77.5°	309.4	81.2	96.4	121.7	148.8	169.1	164.0	130.2	81.2	54.1	49.0
80°	52.4	54.1	74.4	86.2	103.1	135.3	115.0	93.0	64.2	38.9	32.1
82.5°	37.2	45.6	52.4	50.7	71.0	89.6	77.8	62.6	42.3	30.4	27.1
85°	27.1	30.4	28.7	30.4	40.6	59.2	54.1	44.0	30.4	22.0	18.6
87.5°	10.1	10.1	13.5	16.9	25.4	37.2	32.1	13.5	11.8	10.1	10.1
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)