

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: P507565

Luminaire Tested: **VERD-S-CA1-40-760-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507565
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-CA1-40-760-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 760mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6020 lumens
Efficiency: N/A
Efficacy: 138.7 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

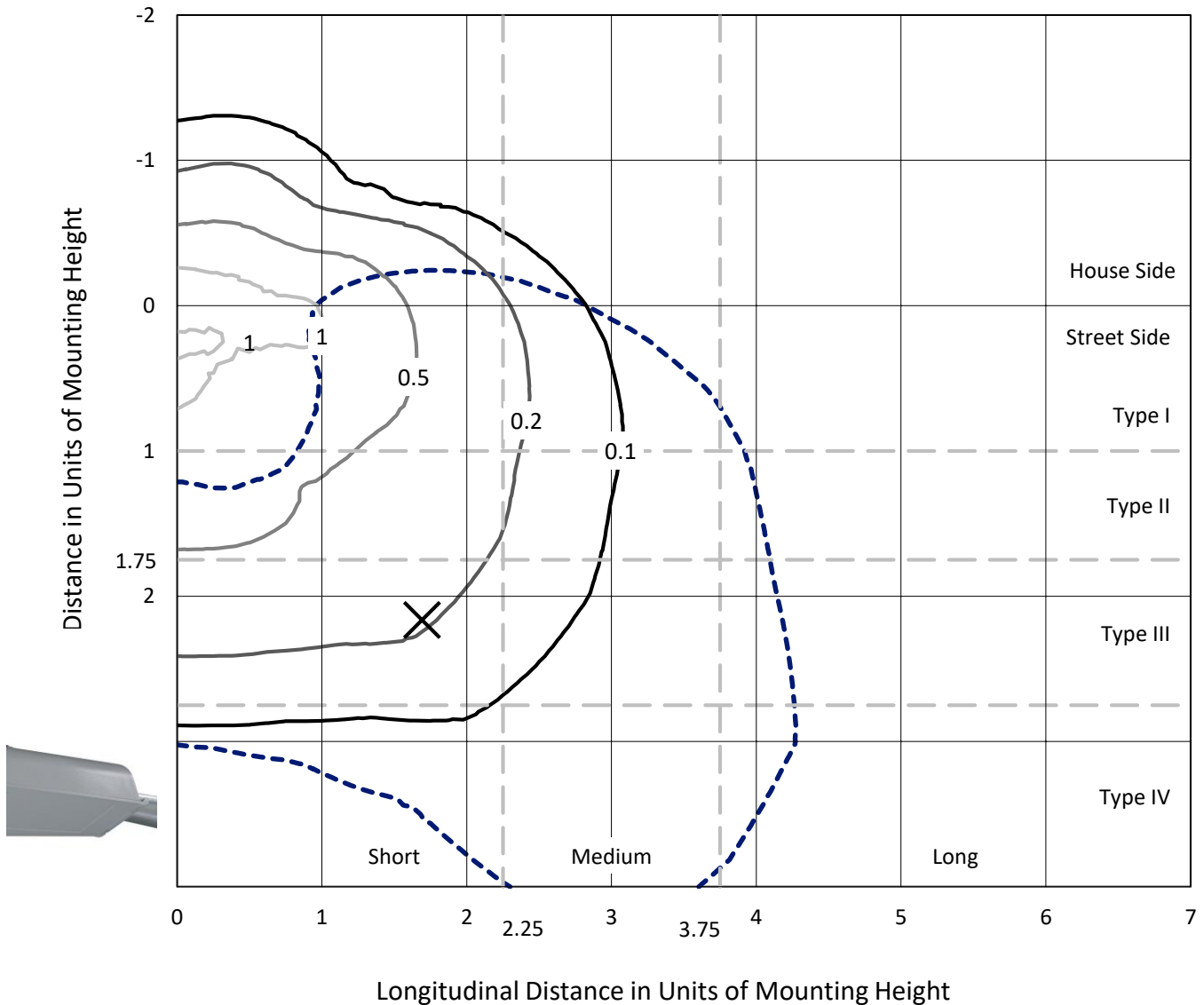
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

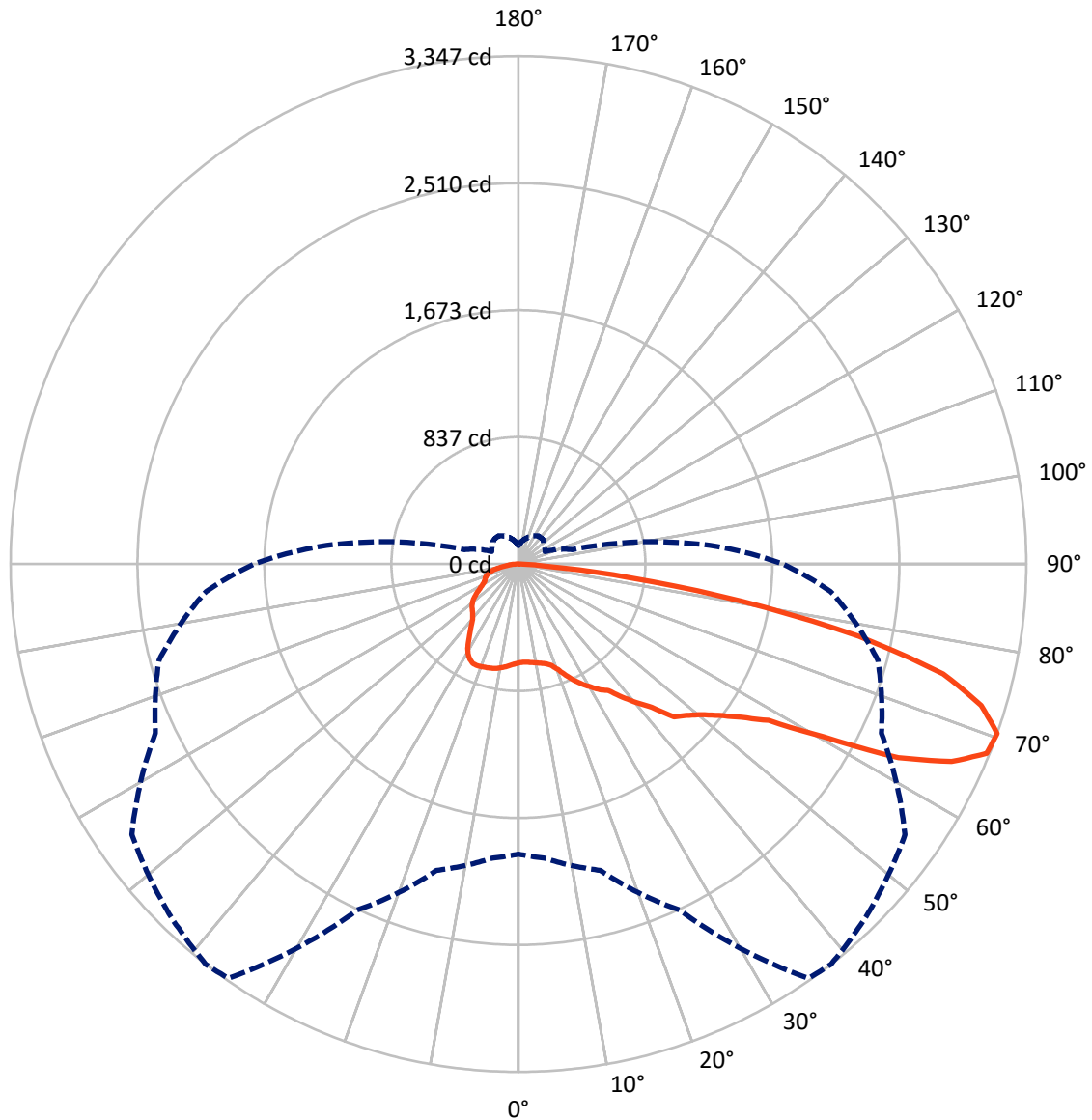
✕ Max cd
 - - - 1/2 Max cd



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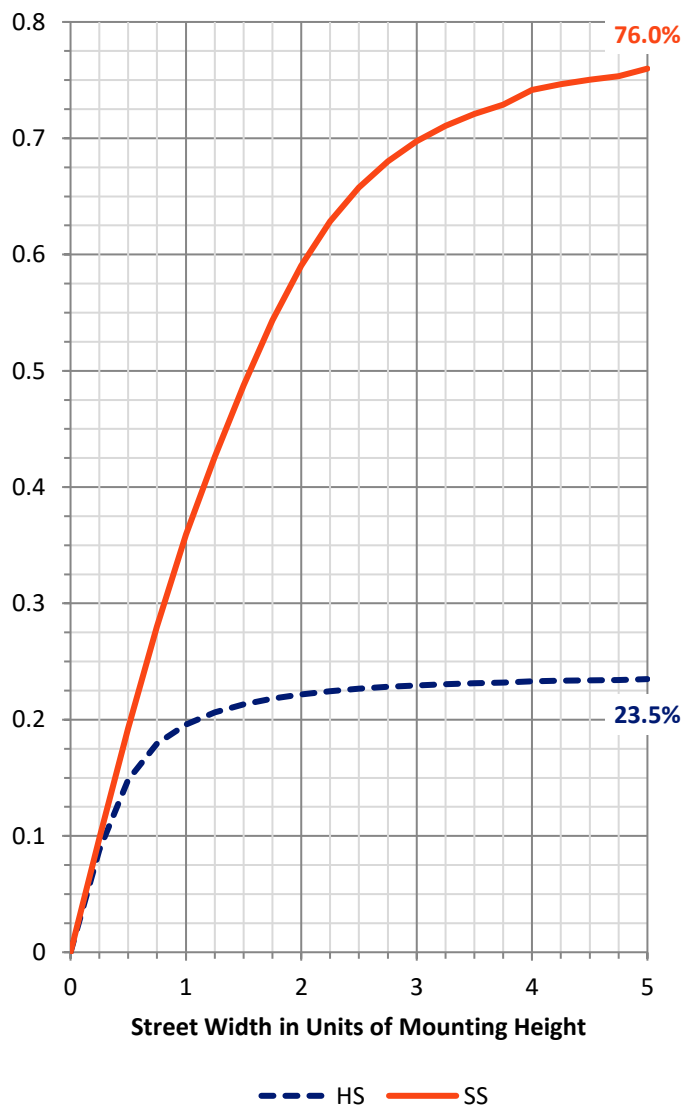
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1429.8	0.0	1429.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4590.2	0.0	4590.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	6020.0	0.0	6020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.1
10°-20°	199.9	3.3
20°-30°	370.8	6.2
30°-40°	574.1	9.5
40°-50°	850.7	14.1
50°-60°	1185.4	19.7
60°-70°	1522.3	25.3
70°-80°	1113.8	18.5
80°-90°	139.5	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°	6020.0	100.0
0°-180°	6020.0	100.0

Coefficient of Utilization



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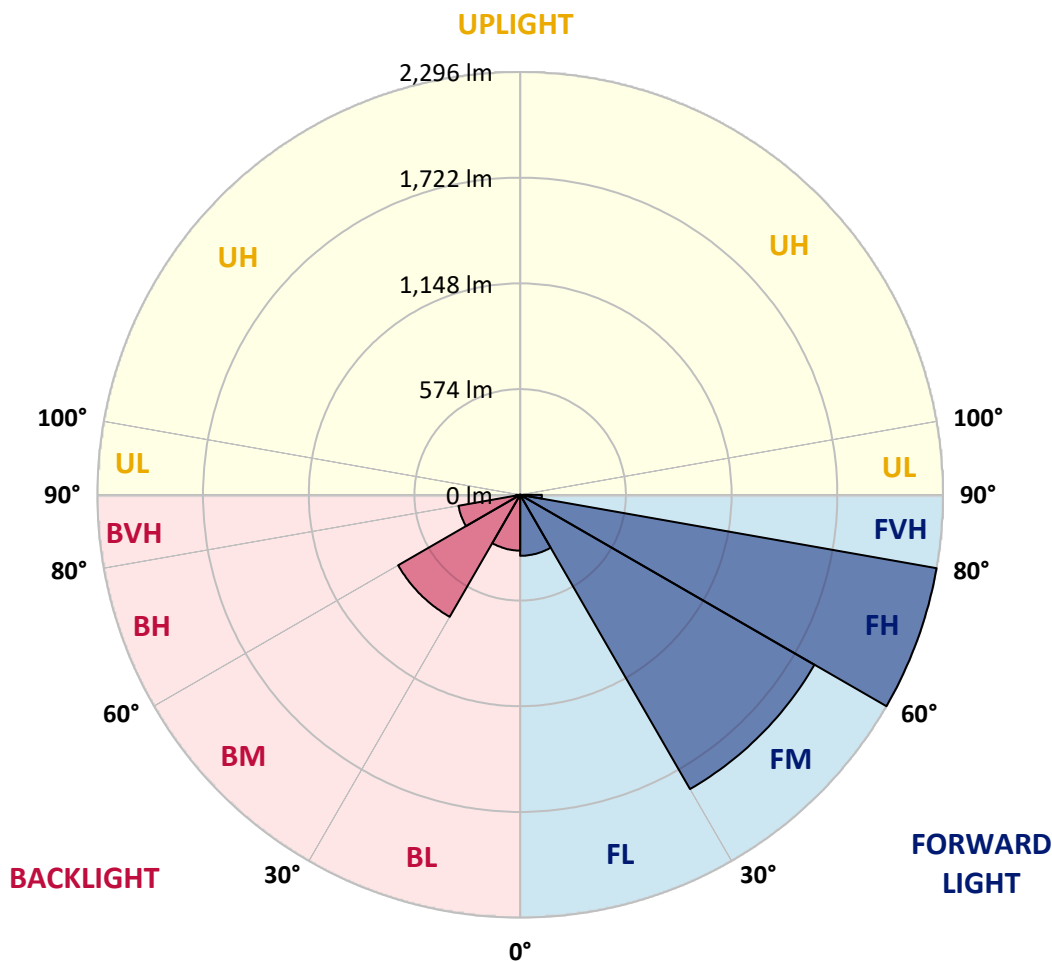
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.3	5.5			
FM	(30°-60°)	1845.0	30.6			
FH	(60°-80°)	2296.1	38.1			G2/5000
FVH	(80°-90°)	117.9	2.0			G2/225
BL	(0°-30°)	302.9	5.0	B1/500		
BM	(30°-60°)	765.3	12.7	B1/1000		
BH	(60°-80°)	340.0	5.6	B1/500		G1/500
BVH	(80°-90°)	21.6	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°	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
2.5°	648.8	648.8	648.8	647.1	647.1	647.1	645.3	645.3	647.1	648.8	648.8
5°	653.9	653.9	652.2	652.2	650.5	650.5	650.5	648.8	648.8	648.8	652.2
7.5°	655.6	655.6	655.6	655.6	655.6	655.6	657.3	655.6	655.6	655.6	659.1
10°	655.6	655.6	657.3	657.3	660.8	662.5	664.2	667.6	667.6	667.6	669.4
12.5°	659.1	659.1	660.8	662.5	667.6	671.1	674.5	679.7	681.4	681.4	683.1
15°	665.9	665.9	667.6	672.8	679.7	681.4	686.5	693.4	700.3	702.0	703.7
17.5°	693.4	693.4	693.4	693.4	700.3	702.0	708.8	719.1	726.0	729.4	734.6
20°	748.3	750.0	746.6	744.9	741.4	741.4	741.4	746.6	755.2	767.2	775.8
22.5°	818.7	818.7	818.7	805.0	796.4	794.7	794.7	792.9	799.8	811.8	823.8
25°	873.6	875.3	873.6	861.6	851.3	847.9	847.9	853.0	853.0	863.3	877.0
27.5°	918.2	921.7	916.5	906.2	897.6	895.9	897.6	913.1	921.7	928.5	945.7
30°	966.3	968.0	956.0	949.1	944.0	940.5	942.3	964.6	993.7	1002.3	1031.5
32.5°	1055.5	1055.5	1038.4	998.9	985.2	986.9	986.9	1016.1	1055.5	1095.0	1132.8
35°	1139.6	1137.9	1122.5	1088.1	1036.7	1024.6	1031.5	1062.4	1124.2	1191.1	1258.1
37.5°	1239.2	1235.7	1222.0	1174.0	1131.1	1112.2	1074.4	1115.6	1191.1	1323.3	1391.9
40°	1350.7	1345.6	1314.7	1266.6	1210.0	1201.4	1168.8	1175.7	1275.2	1462.3	1541.3
42.5°	1412.5	1409.1	1388.5	1349.0	1307.8	1290.7	1263.2	1254.6	1388.5	1642.5	1682.0
45°	1470.9	1477.7	1477.7	1458.9	1441.7	1438.3	1419.4	1426.3	1534.4	1790.1	1805.6
47.5°	1506.9	1513.8	1491.5	1488.0	1488.0	1489.8	1508.6	1555.0	1666.5	1929.1	1913.7
50°	1615.1	1609.9	1520.7	1534.4	1549.8	1560.1	1601.3	1675.1	1850.2	2054.4	2008.1
52.5°	1810.7	1764.4	1658.0	1627.1	1635.7	1656.2	1711.2	1807.3	2037.3	2166.0	2090.5
55°	2052.7	2025.3	1929.1	1791.8	1747.2	1781.5	1839.9	1937.7	2181.4	2270.7	2155.7
57.5°	2215.8	2226.1	2238.1	2143.7	1936.0	1944.6	1984.1	2066.4	2325.6	2372.0	2207.2
60°	2380.5	2392.5	2459.5	2435.5	2387.4	2308.4	2164.3	2203.8	2433.7	2438.9	2244.9
62.5°	2511.0	2519.6	2619.1	2674.0	2799.3	2809.6	2584.8	2377.1	2547.0	2492.1	2260.4
65°	2445.8	2461.2	2610.5	2763.3	3108.3	3137.4	3063.6	2600.2	2634.5	2512.7	2248.4
67.5°	2226.1	2248.4	2406.3	2730.7	3305.6	3327.9	3255.9	3020.7	2665.4	2504.1	2190.0
70°	1912.0	1944.6	2090.5	2516.1	3333.1	3346.8	3257.6	3110.0	2639.7	2452.6	2064.7
72.5°	1555.0	1580.7	1728.3	2157.4	3166.6	3188.9	3161.5	3036.2	2584.8	2353.1	1812.4
75°	1191.1	1192.8	1349.0	1690.6	2802.7	2892.0	2938.3	2893.7	2435.5	2069.9	1395.4
77.5°	751.7	774.1	933.7	1280.4	2202.0	2293.0	2313.6	2258.7	1704.3	1270.1	600.7
80°	338.1	372.4	535.5	865.0	1498.3	1494.9	1506.9	1371.3	907.9	403.3	66.9
82.5°	121.9	128.7	224.8	434.2	726.0	744.9	736.3	633.3	245.4	56.6	41.2
85°	51.5	54.9	73.8	116.7	164.8	175.1	151.0	115.0	39.5	32.6	27.5
87.5°	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	6.9	8.6
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°	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
2.5°	648.8	650.5	652.2	655.6	655.6	657.3	659.1	660.8	660.8	660.8	660.8
5°	653.9	655.6	657.3	662.5	665.9	667.6	671.1	672.8	674.5	674.5	674.5
7.5°	660.8	662.5	665.9	671.1	676.2	679.7	683.1	684.8	686.5	686.5	686.5
10°	671.1	674.5	679.7	686.5	691.7	691.7	693.4	695.1	696.8	696.8	696.8
12.5°	684.8	688.2	696.8	705.4	707.1	705.4	702.0	702.0	700.3	698.5	698.5
15°	707.1	708.8	720.9	727.7	722.6	714.0	707.1	700.3	695.1	691.7	691.7
17.5°	738.0	743.2	755.2	755.2	741.4	726.0	708.8	691.7	677.9	672.8	671.1
20°	782.6	789.5	799.8	789.5	767.2	739.7	708.8	681.4	653.9	636.8	631.6
22.5°	832.4	841.0	844.4	822.1	789.5	751.7	710.6	667.6	623.0	585.3	575.0
25°	890.8	895.9	883.9	847.9	803.2	755.2	705.4	648.8	580.1	530.3	525.2
27.5°	959.4	954.3	921.7	866.7	806.7	748.3	686.5	611.0	525.2	487.4	482.3
30°	1033.2	1014.3	954.3	877.0	796.4	727.7	653.9	554.4	484.0	453.1	449.7
32.5°	1120.8	1083.0	985.2	878.8	777.5	691.7	600.7	508.0	456.5	422.2	418.8
35°	1218.6	1160.2	1012.6	868.5	739.7	641.9	537.2	473.7	427.4	394.8	387.9
37.5°	1350.7	1264.9	1047.0	846.1	691.7	578.4	490.9	437.7	398.2	362.1	357.0
40°	1486.3	1385.1	1095.0	820.4	638.5	526.9	451.4	411.9	377.6	336.4	327.8
42.5°	1621.9	1505.2	1160.2	789.5	585.3	487.4	434.2	408.5	367.3	324.4	315.8
45°	1733.5	1608.2	1222.0	753.5	532.1	451.4	423.9	401.6	360.4	314.1	303.8
47.5°	1829.6	1694.0	1275.2	720.9	480.6	423.9	415.3	389.6	350.1	303.8	293.5
50°	1910.3	1762.7	1318.1	693.4	437.7	405.1	398.2	367.3	326.1	286.6	279.8
52.5°	1980.6	1812.4	1337.0	684.8	394.8	382.7	370.7	339.8	302.1	266.0	255.7
55°	2027.0	1850.2	1333.6	684.8	353.6	351.8	338.1	314.1	286.6	257.4	247.1
57.5°	2063.0	1867.4	1307.8	585.3	319.2	312.4	303.8	293.5	276.3	243.7	233.4
60°	2080.2	1857.1	1252.9	425.6	284.9	272.9	279.8	276.3	259.2	214.5	207.7
62.5°	2069.9	1826.2	1129.3	310.7	248.9	247.1	257.4	250.6	218.0	178.5	175.1
65°	2030.4	1748.9	971.4	233.4	228.3	240.3	245.4	231.7	200.8	164.8	151.0
67.5°	1929.1	1599.6	707.1	209.4	221.4	235.1	238.6	219.7	188.8	154.5	137.3
70°	1742.1	1318.1	367.3	193.9	211.1	228.3	226.6	202.5	171.6	140.7	120.1
72.5°	1412.5	935.4	139.0	173.3	195.7	212.8	209.4	181.9	121.9	87.5	79.0
75°	916.5	448.0	120.1	149.3	175.1	190.5	192.2	164.8	106.4	73.8	63.5
77.5°	314.1	82.4	97.8	123.6	151.0	171.6	166.5	132.2	82.4	54.9	49.8
80°	53.2	54.9	75.5	87.5	104.7	137.3	116.7	94.4	65.2	39.5	32.6
82.5°	37.8	46.3	53.2	51.5	72.1	91.0	79.0	63.5	42.9	30.9	27.5
85°	27.5	30.9	29.2	30.9	41.2	60.1	54.9	44.6	30.9	22.3	18.9
87.5°	10.3	10.3	13.7	17.2	25.7	37.8	32.6	13.7	12.0	10.3	10.3
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)