

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: P507522

Luminaire Tested: **VERD-S-CA1-40-722-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
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-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 760mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4622 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

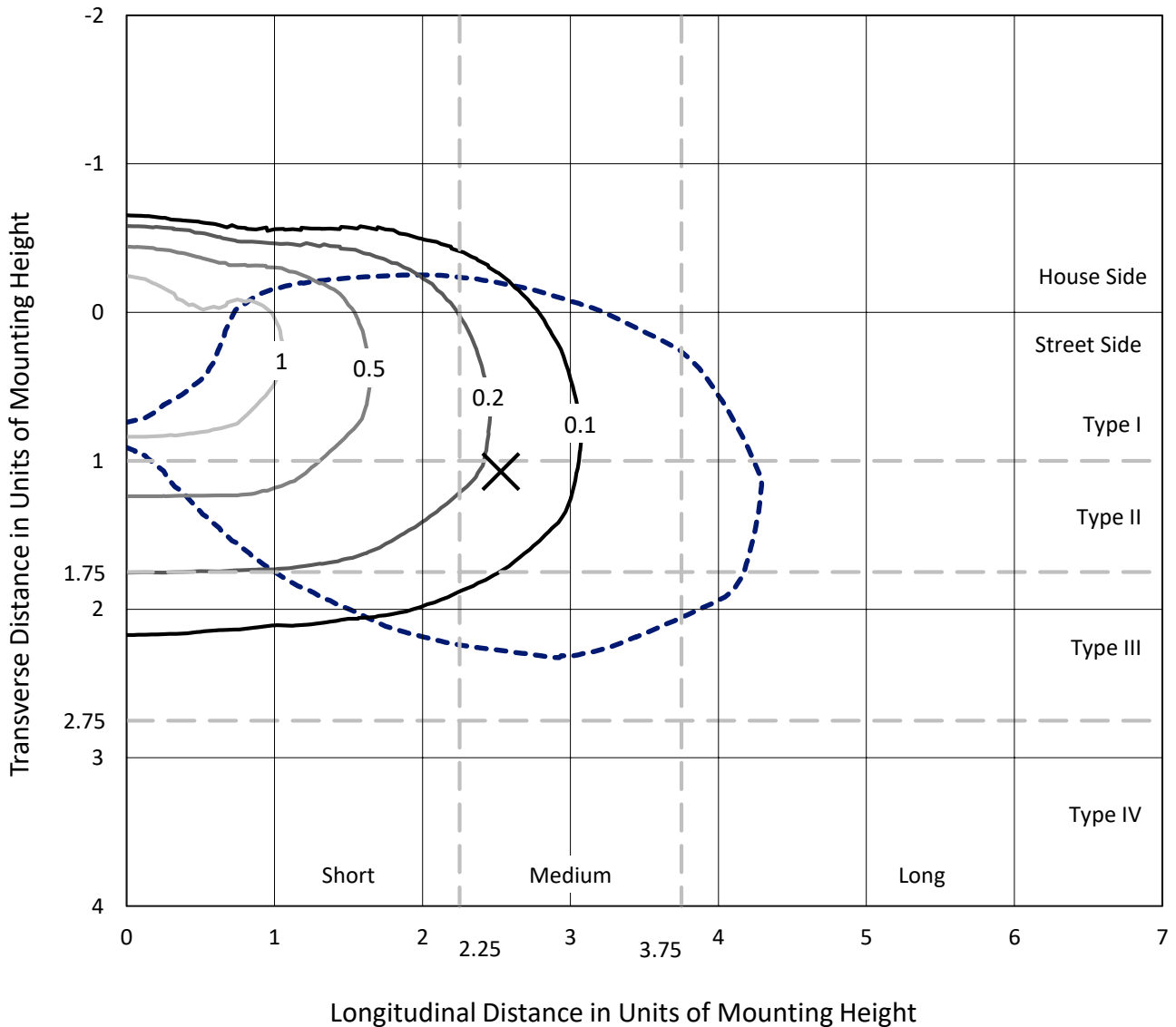
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

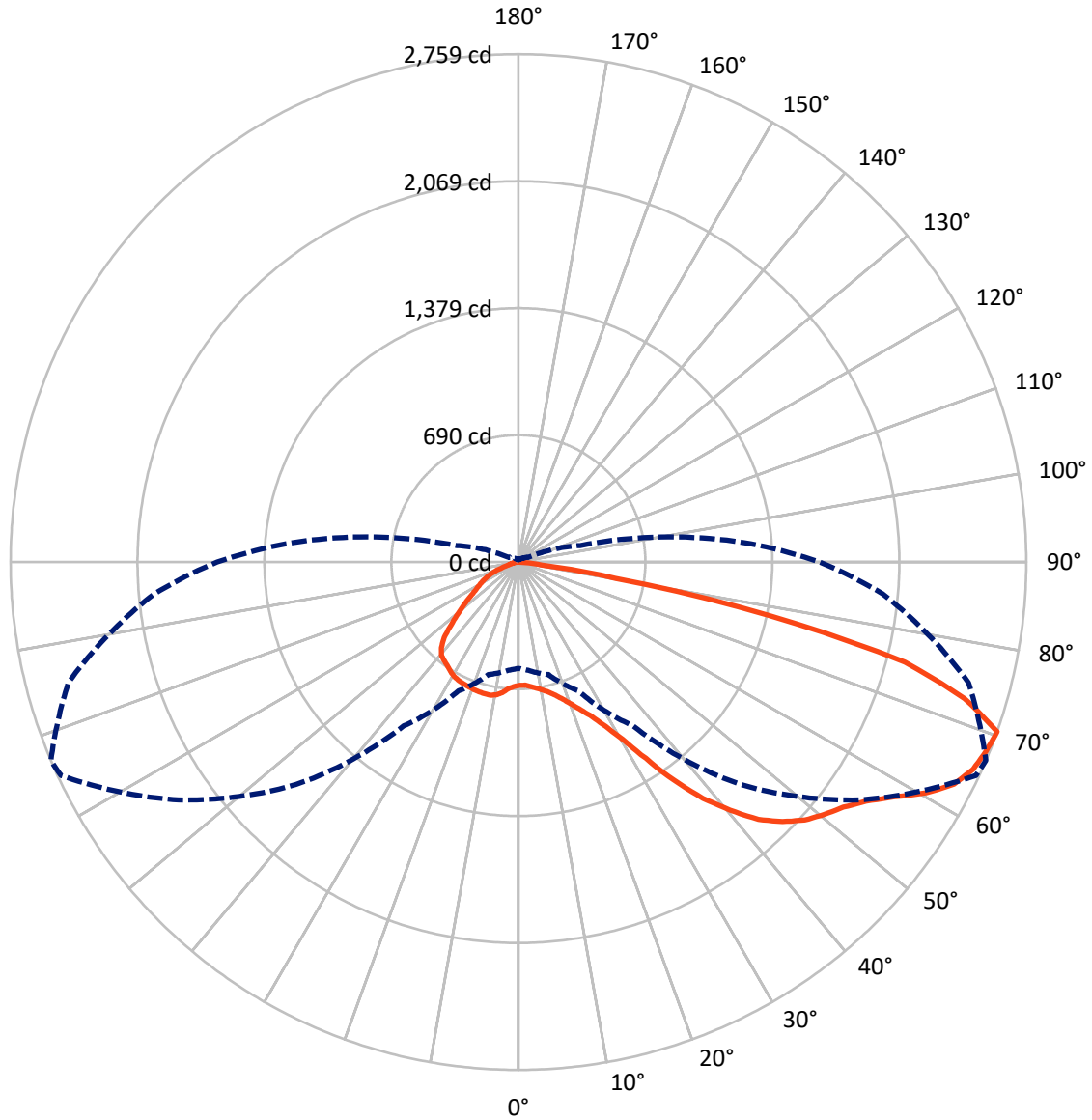
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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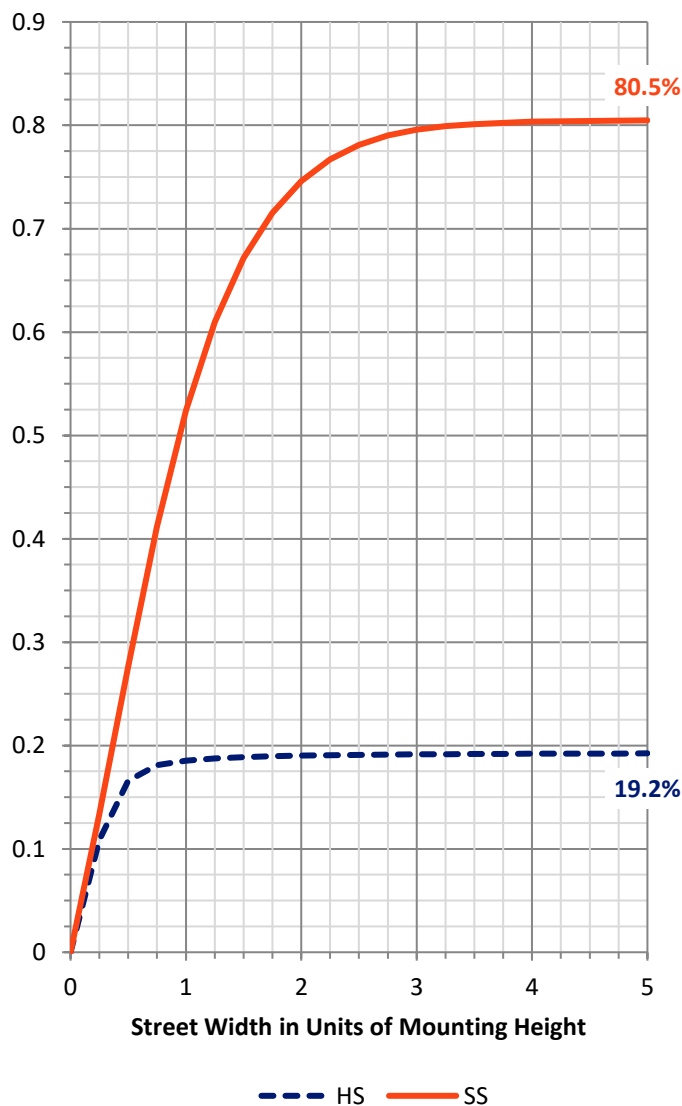
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	900.7	0.0	900.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3721.3	0.0	3721.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4622.0	0.0	4622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	1.5
10°-20°	213.4	4.6
20°-30°	370.8	8.0
30°-40°	580.6	12.6
40°-50°	817.0	17.7
50°-60°	974.4	21.1
60°-70°	1009.7	21.8
70°-80°	557.1	12.1
80°-90°	31.7	0.7
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°	4622.0	100.0
0°-180°	4622.0	100.0

**Coefficient of Utilization**



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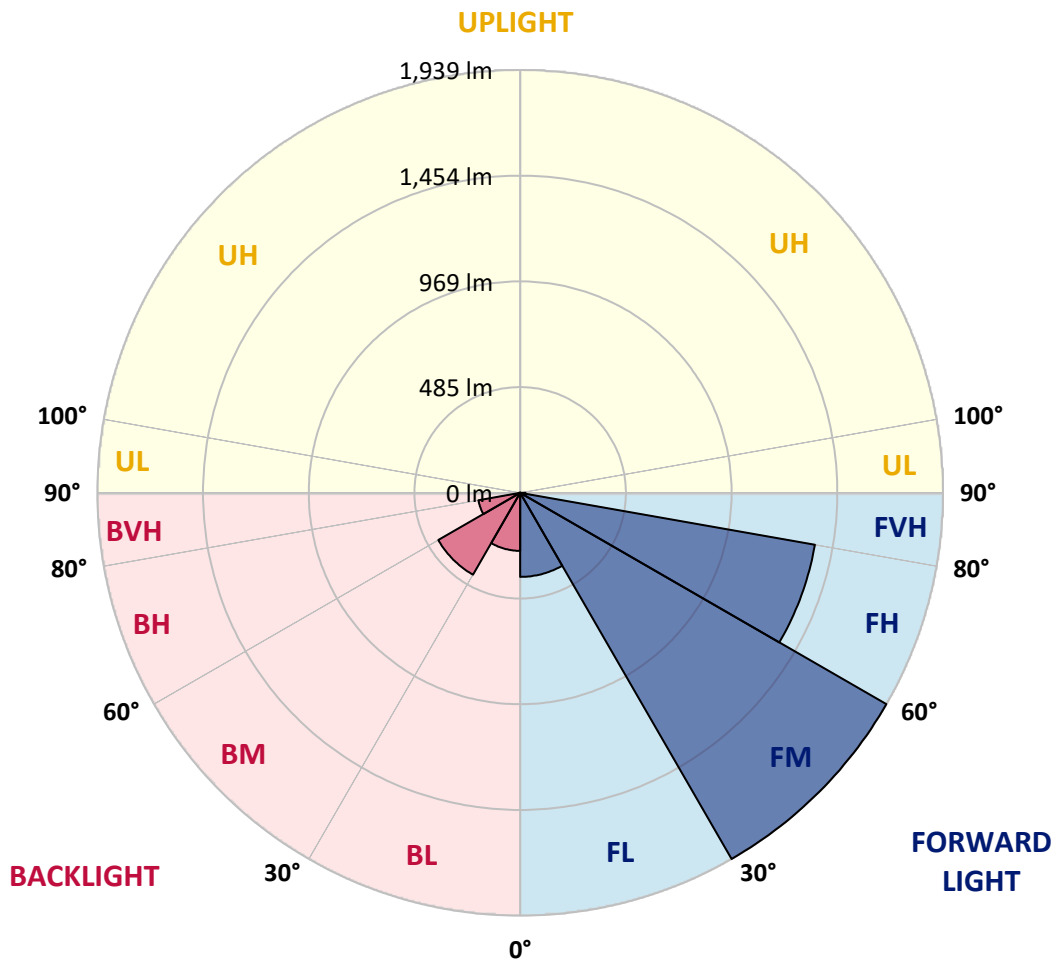
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.6	8.3			
FM (30°-60°)	1938.7	41.9			
FH (60°-80°)	1372.4	29.7			G1/1800
FVH (80°-90°)	24.6	0.5			G1/100
BL (0°-30°)	266.0	5.8	B1/500		
BM (30°-60°)	433.3	9.4	B1/1000		
BH (60°-80°)	194.4	4.2	B1/500		G1/500
BVH (80°-90°)	7.1	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3
2.5°	673.6	673.6	673.6	672.2	672.2	672.2	670.7	669.3	669.3	669.3	670.7
5°	691.8	691.8	690.4	689.0	687.6	683.4	680.6	679.2	679.2	677.8	680.6
7.5°	714.2	714.2	714.2	711.4	707.2	701.6	696.0	691.8	690.4	689.0	690.4
10°	747.9	747.9	745.1	740.9	733.9	725.5	715.7	707.2	705.8	703.0	705.8
12.5°	791.4	787.2	784.4	777.4	769.0	754.9	739.5	726.9	724.1	721.3	731.1
15°	836.3	834.9	827.9	823.7	809.7	791.4	770.4	753.5	750.7	745.1	753.5
17.5°	889.7	891.1	888.3	881.2	861.6	834.9	809.7	785.8	783.0	778.8	783.0
20°	962.6	959.8	954.2	944.4	921.9	886.8	854.6	827.9	823.7	820.9	816.7
22.5°	1035.6	1037.0	1025.8	1015.9	987.9	954.2	910.7	878.4	872.8	871.4	851.8
25°	1105.8	1108.6	1104.3	1091.7	1067.9	1024.4	976.7	937.4	930.3	928.9	895.3
27.5°	1178.7	1180.1	1184.3	1178.7	1153.5	1108.6	1055.2	1010.3	1010.3	999.1	948.6
30°	1248.9	1251.7	1254.5	1254.5	1241.9	1202.6	1156.3	1117.0	1117.0	1108.6	1021.6
32.5°	1303.6	1305.0	1321.9	1335.9	1335.9	1307.8	1276.9	1272.7	1271.3	1286.8	1188.5
35°	1352.7	1356.9	1380.8	1418.7	1434.1	1422.9	1424.3	1439.7	1455.2	1493.0	1418.7
37.5°	1389.2	1394.8	1417.3	1460.8	1504.3	1533.7	1561.8	1603.9	1627.8	1685.3	1582.9
40°	1399.0	1406.0	1453.8	1515.5	1585.7	1653.0	1703.5	1755.5	1770.9	1811.6	1682.5
42.5°	1368.2	1375.2	1435.5	1560.4	1658.6	1763.9	1818.6	1884.5	1911.2	1895.8	1765.3
45°	1347.1	1351.3	1414.5	1556.2	1721.8	1871.9	1925.2	1994.0	2010.8	1974.4	1834.0
47.5°	1320.4	1324.7	1390.6	1550.6	1773.7	1964.5	2001.0	2076.8	2093.6	2037.5	1893.0
50°	1281.2	1284.0	1359.7	1539.4	1807.4	2030.5	2071.2	2147.0	2154.0	2096.4	1949.1
52.5°	1233.4	1241.9	1314.8	1512.7	1831.2	2071.2	2120.3	2201.7	2211.5	2172.2	2010.8
55°	1168.9	1178.7	1262.9	1473.4	1822.8	2085.2	2142.7	2274.7	2291.5	2259.2	2062.8
57.5°	1102.9	1117.0	1199.8	1418.7	1789.1	2106.3	2217.1	2382.7	2405.2	2344.8	2104.9
60°	1035.6	1041.2	1126.8	1344.3	1733.0	2127.3	2301.3	2524.4	2545.5	2429.0	2138.5
62.5°	958.4	965.4	1041.2	1241.9	1636.2	2107.7	2364.5	2643.7	2656.3	2499.2	2152.6
65°	868.6	868.6	933.2	1117.0	1505.7	2037.5	2372.9	2705.4	2713.9	2544.1	2135.7
67.5°	743.7	749.3	801.2	962.6	1330.3	1900.0	2325.2	2719.5	2740.5	2572.1	2089.4
70°	576.7	589.4	632.9	771.8	1086.1	1709.1	2253.6	2741.9	2758.8	2531.4	1985.6
72.5°	394.3	406.9	446.2	529.0	783.0	1371.0	2038.9	2530.0	2534.2	2333.6	1783.5
75°	103.8	115.1	145.9	211.9	328.4	921.9	1630.6	2142.7	2168.0	2017.9	1472.0
77.5°	30.9	30.9	37.9	49.1	67.4	188.0	829.3	1365.4	1390.6	1330.3	917.7
80°	23.9	23.9	28.1	33.7	43.5	96.8	287.7	503.8	534.6	571.1	378.9
82.5°	15.4	16.8	18.2	19.6	19.6	39.3	77.2	129.1	127.7	138.9	122.1
85°	9.8	9.8	8.4	8.4	7.0	9.8	7.0	8.4	9.8	9.8	11.2
87.5°	1.4	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8	2.8	4.2
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°	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3
2.5°	672.2	673.6	675.0	676.4	679.2	679.2	680.6	680.6	680.6	680.6	680.6
5°	680.6	682.0	686.2	690.4	700.2	705.8	711.4	715.7	715.7	718.5	718.5
7.5°	693.2	697.4	710.0	715.7	724.1	732.5	736.7	738.1	740.9	740.9	740.9
10°	714.2	718.5	728.3	732.5	736.7	736.7	735.3	733.9	729.7	728.3	729.7
12.5°	733.9	739.5	739.5	738.1	733.9	728.3	721.3	714.2	707.2	701.6	701.6
15°	757.7	754.9	746.5	735.3	724.1	710.0	696.0	683.4	672.2	667.9	667.9
17.5°	778.8	771.8	753.5	732.5	708.6	686.2	663.7	642.7	623.0	616.0	611.8
20°	804.1	791.4	759.2	726.9	693.2	658.1	620.2	582.3	548.7	534.6	533.2
22.5°	833.5	812.5	767.6	718.5	673.6	620.2	557.1	503.8	470.1	453.2	450.4
25°	868.6	837.7	776.0	711.4	649.7	571.1	486.9	426.6	384.5	366.2	359.2
27.5°	912.1	871.4	787.2	703.0	613.2	510.8	415.4	345.2	298.9	276.4	273.6
30°	968.2	912.1	798.4	690.4	568.3	440.6	338.2	259.6	213.3	190.8	185.2
32.5°	1097.3	994.9	812.5	669.3	512.2	373.3	255.4	174.0	127.7	106.6	105.2
35°	1316.2	1181.5	844.7	641.3	456.1	293.3	164.2	92.6	68.8	60.3	60.3
37.5°	1480.4	1337.3	931.8	604.8	383.1	196.5	84.2	54.7	43.5	42.1	42.1
40°	1578.6	1429.9	1027.2	564.1	296.1	105.2	51.9	42.1	39.3	37.9	37.9
42.5°	1660.0	1507.1	1072.1	513.6	188.0	58.9	43.5	39.3	36.5	35.1	35.1
45°	1727.4	1566.0	1077.7	449.0	105.2	49.1	40.7	35.1	33.7	32.3	32.3
47.5°	1780.7	1616.5	1063.7	357.8	66.0	46.3	37.9	32.3	29.5	29.5	29.5
50°	1831.2	1660.0	1024.4	282.1	61.7	43.5	35.1	29.5	28.1	28.1	28.1
52.5°	1877.5	1690.9	958.4	227.3	57.5	40.7	33.7	28.1	25.3	26.7	26.7
55°	1915.4	1703.5	891.1	175.4	54.7	39.3	32.3	26.7	23.9	23.9	23.9
57.5°	1936.5	1676.9	834.9	133.3	53.3	37.9	30.9	25.3	21.0	19.6	19.6
60°	1937.9	1641.8	783.0	112.3	50.5	35.1	29.5	22.5	18.2	16.8	16.8
62.5°	1912.6	1599.7	704.4	96.8	47.7	33.7	26.7	21.0	16.8	15.4	15.4
65°	1863.5	1525.3	617.4	82.8	46.3	33.7	23.9	19.6	16.8	14.0	14.0
67.5°	1784.9	1401.8	501.0	73.0	43.5	30.9	23.9	18.2	15.4	14.0	14.0
70°	1636.2	1225.0	346.6	63.1	40.7	28.1	22.5	18.2	15.4	12.6	12.6
72.5°	1410.3	994.9	171.2	51.9	35.1	28.1	22.5	16.8	14.0	12.6	12.6
75°	1090.3	712.8	103.8	42.1	28.1	25.3	21.0	16.8	14.0	11.2	11.2
77.5°	641.3	317.1	74.4	32.3	21.0	19.6	18.2	15.4	12.6	11.2	11.2
80°	234.3	134.7	54.7	25.3	16.8	16.8	14.0	12.6	11.2	9.8	9.8
82.5°	91.2	71.6	36.5	18.2	14.0	12.6	11.2	9.8	8.4	8.4	8.4
85°	12.6	12.6	12.6	9.8	8.4	8.4	7.0	7.0	5.6	5.6	5.6
87.5°	4.2	4.2	4.2	5.6	4.2	4.2	2.8	2.8	2.8	4.2	4.2
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)