

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: P507596

Luminaire Tested: **VERD-S-CA1-50-740-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-740-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 940mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6626 lumens
Efficiency: N/A
Efficacy: 123.9 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

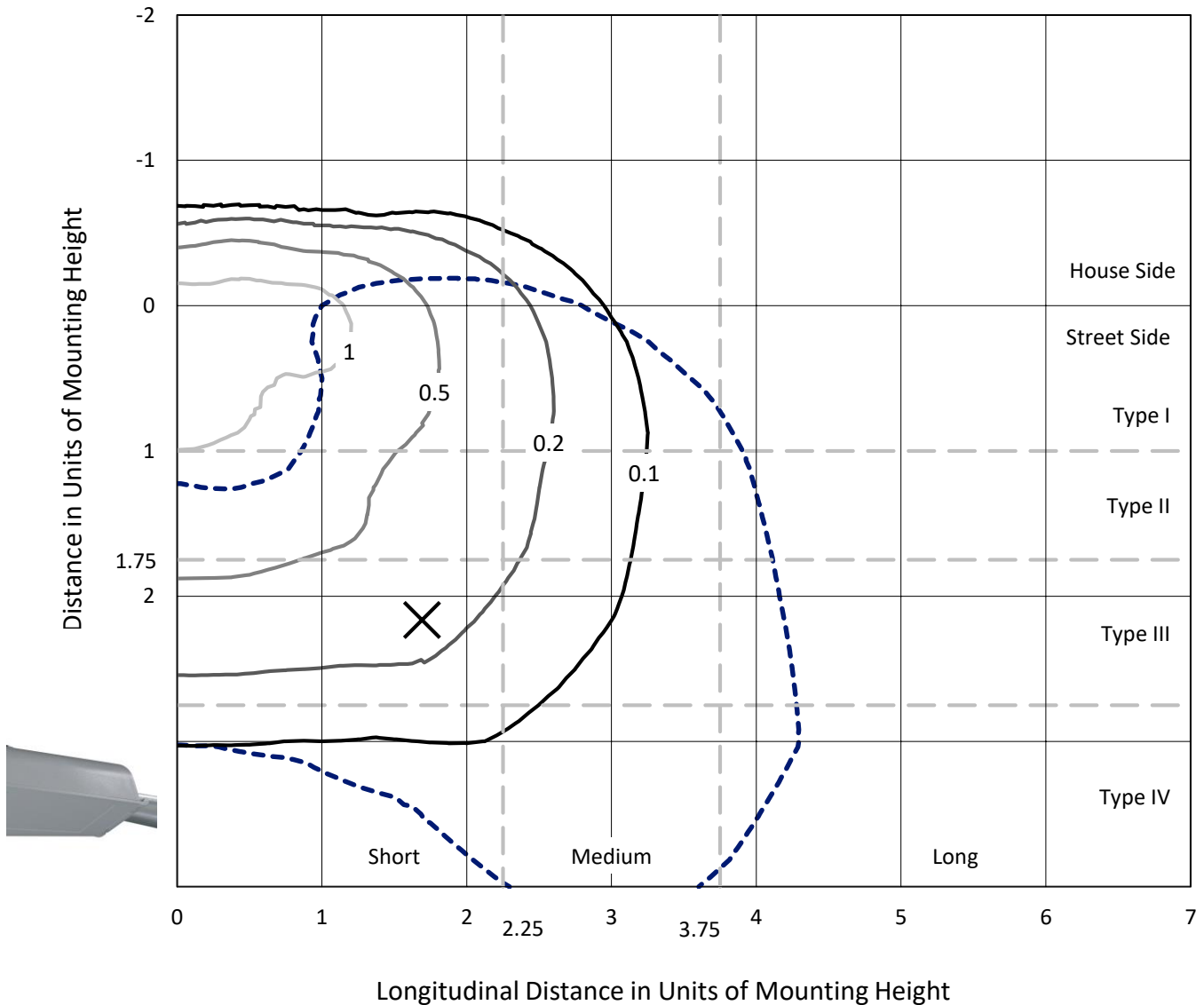
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

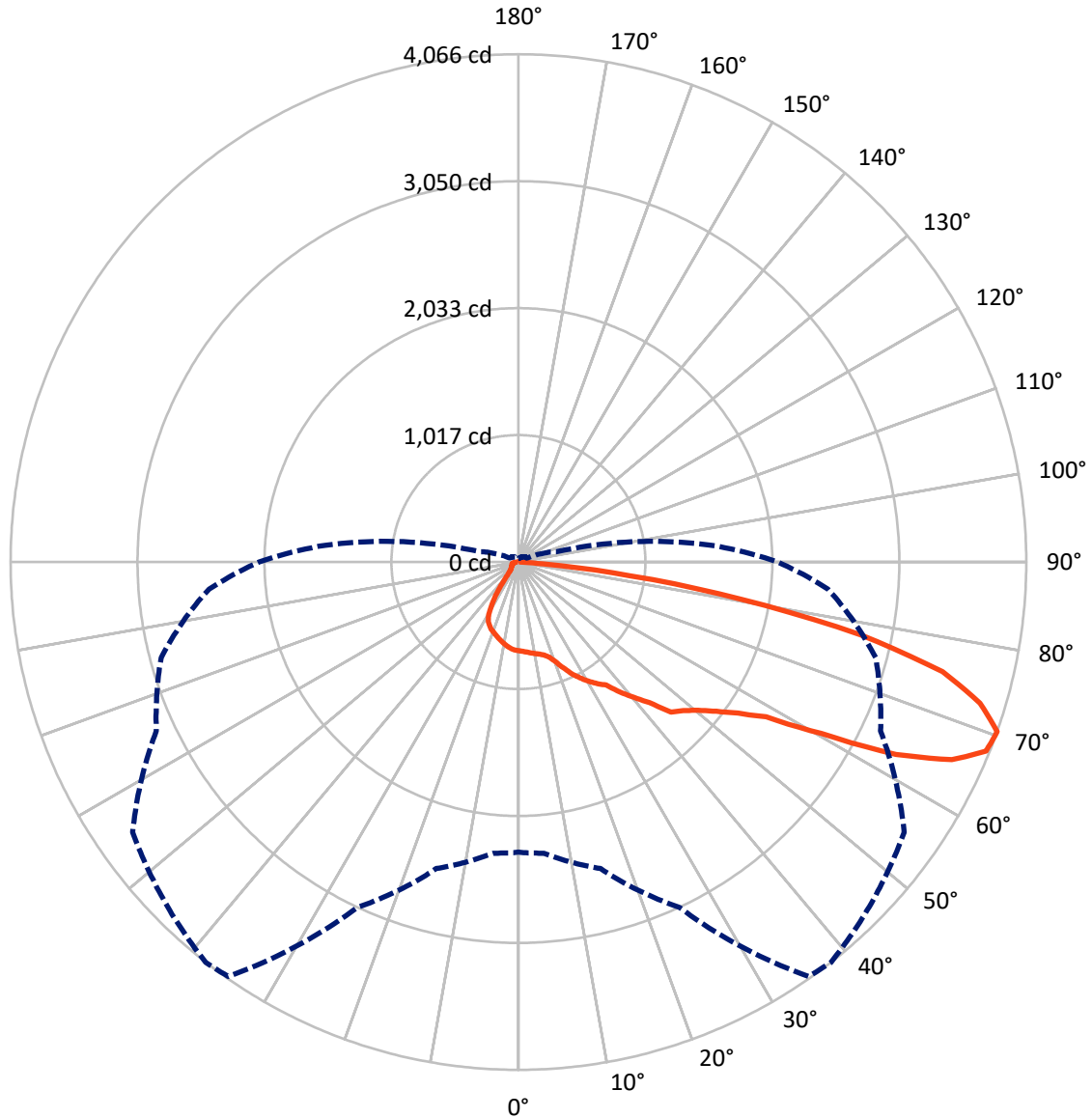
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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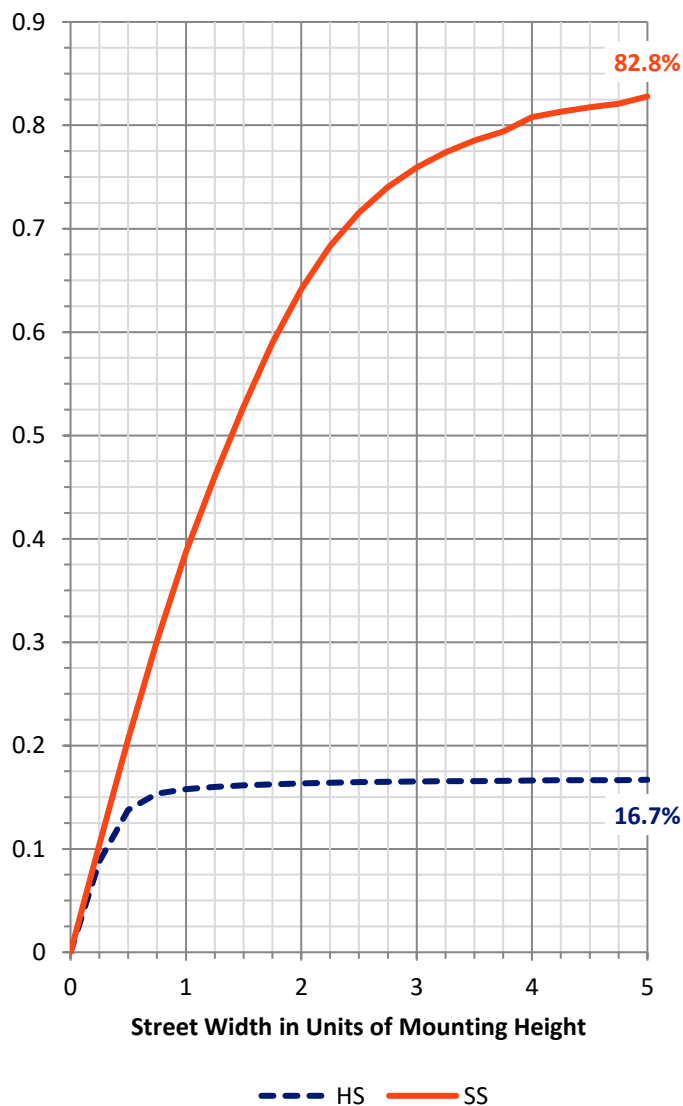
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.0	0.0	1121.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5505.0	0.0	5505.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	6626.0	0.0	6626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.0
10°-20°	205.8	3.1
20°-30°	378.8	5.7
30°-40°	593.1	9.0
40°-50°	901.0	13.6
50°-60°	1295.5	19.6
60°-70°	1740.4	26.3
70°-80°	1289.4	19.5
80°-90°	154.2	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°	6626.0	100.0
0°-180°	6626.0	100.0

Coefficient of Utilization



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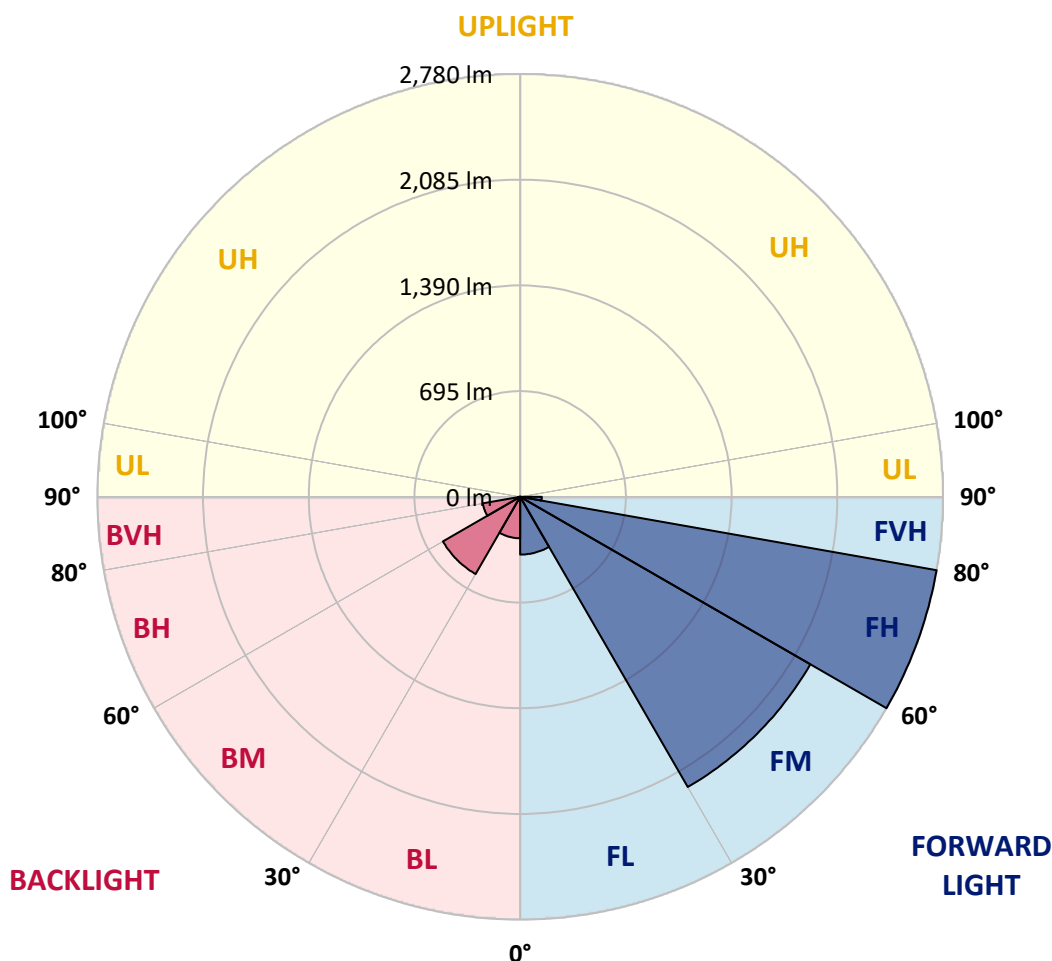
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.9	5.7			
FM (30°-60°)	2203.1	33.2			
FH (60°-80°)	2780.2	42.0			G2/5000
FVH (80°-90°)	141.8	2.1			G2/225
BL (0°-30°)	272.6	4.1	B1/500		
BM (30°-60°)	586.4	8.8	B1/1000		
BH (60°-80°)	249.6	3.8	B1/500		G1/500
BVH (80°-90°)	12.4	0.2			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°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	720.7	720.7	720.7	718.6	718.6	716.5	716.5	714.4	714.4	712.3	710.2
5°	731.2	731.2	729.1	727.0	724.9	724.9	724.9	722.8	718.6	718.6	714.4
7.5°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	733.3	731.2	729.1	724.9
10°	737.4	737.4	739.5	739.5	743.7	745.8	745.8	747.9	745.8	741.6	737.4
12.5°	743.7	745.8	745.8	747.9	754.2	756.3	758.4	764.7	764.7	760.5	756.3
15°	756.3	756.3	758.4	762.6	771.0	773.1	779.3	785.6	789.8	785.6	781.4
17.5°	794.0	794.0	794.0	794.0	798.2	800.3	808.7	819.1	823.3	823.3	821.2
20°	869.4	869.4	865.2	856.9	852.7	852.7	850.6	854.8	863.1	869.4	871.5
22.5°	955.3	953.2	951.1	938.6	923.9	919.7	915.5	911.3	915.5	926.0	930.2
25°	1022.4	1024.5	1022.4	1005.6	993.0	990.9	984.7	986.7	986.7	988.8	995.1
27.5°	1076.8	1081.0	1072.6	1064.3	1055.9	1049.6	1053.8	1060.1	1070.5	1066.4	1078.9
30°	1137.6	1135.5	1127.1	1116.6	1110.4	1108.3	1106.2	1129.2	1158.5	1171.1	1185.8
32.5°	1246.5	1244.4	1227.7	1175.3	1160.6	1160.6	1164.8	1194.2	1240.2	1280.0	1317.8
35°	1347.1	1347.1	1326.1	1290.5	1227.7	1208.8	1219.3	1254.9	1321.9	1401.6	1462.3
37.5°	1466.5	1468.6	1445.6	1391.1	1340.8	1321.9	1271.7	1321.9	1403.7	1556.6	1632.0
40°	1604.8	1600.6	1562.9	1504.2	1439.3	1424.6	1382.7	1393.2	1508.4	1738.9	1812.2
42.5°	1682.3	1678.1	1653.0	1606.9	1554.5	1537.7	1500.0	1489.5	1648.8	1940.0	1988.2
45°	1757.7	1761.9	1759.8	1736.8	1724.2	1713.7	1692.8	1694.9	1822.7	2139.0	2141.1
47.5°	1801.7	1810.1	1776.6	1774.5	1776.6	1776.6	1805.9	1864.6	1988.2	2308.7	2275.2
50°	1931.6	1923.2	1820.6	1824.8	1852.0	1864.6	1919.0	2004.9	2218.6	2455.3	2390.4
52.5°	2193.5	2134.8	2004.9	1942.1	1952.5	1984.0	2048.9	2172.5	2449.1	2599.9	2493.1
55°	2486.8	2461.6	2327.6	2166.2	2095.0	2134.8	2203.9	2333.8	2631.3	2723.5	2579.0
57.5°	2690.0	2700.5	2704.7	2574.8	2325.5	2338.0	2382.0	2495.2	2794.7	2849.2	2643.9
60°	2886.9	2901.6	2981.2	2962.3	2880.6	2788.5	2616.7	2654.4	2935.1	2939.3	2694.2
62.5°	3044.0	3052.4	3180.2	3238.9	3385.5	3391.8	3113.2	2874.3	3077.6	3004.2	2713.0
65°	2964.4	2987.5	3173.9	3352.0	3768.9	3815.0	3706.1	3155.1	3186.5	3033.6	2700.5
67.5°	2696.3	2734.0	2910.0	3318.5	4007.7	4039.2	3942.8	3664.2	3226.3	3023.1	2631.3
70°	2323.4	2340.1	2541.2	3050.3	4051.7	4066.4	3947.0	3771.0	3199.1	2962.3	2486.8
72.5°	1889.7	1908.6	2082.4	2622.9	3852.7	3865.3	3833.9	3687.2	3134.1	2849.2	2193.5
75°	1418.3	1447.6	1613.2	2048.9	3402.3	3509.1	3574.1	3511.2	2954.0	2474.2	1669.7
77.5°	936.5	938.6	1106.2	1548.2	2696.3	2803.1	2813.6	2761.2	2097.1	1552.4	741.6
80°	402.2	440.0	647.4	1039.1	1791.2	1810.1	1831.0	1692.8	1074.7	479.8	81.7
82.5°	134.1	148.7	272.4	548.9	882.0	902.9	865.2	750.0	301.7	64.9	46.1
85°	56.6	62.9	83.8	150.8	213.7	194.8	182.3	148.7	41.9	37.7	29.3
87.5°	2.1	2.1	2.1	2.1	4.2	2.1	4.2	4.2	6.3	6.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	710.2	710.2	710.2	708.1	708.1	706.0	706.0	703.9	703.9	703.9	703.9
5°	714.4	714.4	710.2	708.1	703.9	699.7	695.5	691.4	687.2	687.2	687.2
7.5°	722.8	720.7	714.4	706.0	697.6	687.2	680.9	672.5	668.3	664.1	666.2
10°	735.3	731.2	722.8	710.2	693.4	676.7	662.0	649.5	643.2	636.9	634.8
12.5°	752.1	747.9	735.3	716.5	691.4	666.2	643.2	624.3	611.7	605.5	603.4
15°	777.2	771.0	754.2	727.0	691.4	653.6	622.2	595.0	574.0	561.5	561.5
17.5°	817.1	810.8	787.7	750.0	699.7	647.4	599.2	553.1	525.8	511.2	509.1
20°	869.4	861.0	833.8	779.3	714.4	645.3	574.0	515.4	469.3	444.1	442.0
22.5°	930.2	923.9	882.0	810.8	729.1	641.1	555.2	477.7	412.7	366.6	356.2
25°	1001.4	990.9	928.1	835.9	733.3	630.6	527.9	437.9	347.8	291.2	280.7
27.5°	1085.2	1062.2	970.0	854.8	731.2	609.6	496.5	381.3	264.0	222.1	215.8
30°	1175.3	1135.5	1011.9	867.3	718.6	576.1	442.0	284.9	190.6	165.5	159.2
32.5°	1278.0	1215.1	1049.6	869.4	691.4	530.0	349.9	194.8	136.2	121.5	119.4
35°	1401.6	1315.7	1089.4	861.0	651.5	454.6	243.0	132.0	100.6	96.4	96.4
37.5°	1562.9	1443.5	1133.4	835.9	590.8	352.0	161.3	90.1	88.0	90.1	90.1
40°	1732.6	1590.1	1187.9	798.2	513.3	253.5	102.7	83.8	83.8	85.9	85.9
42.5°	1893.9	1730.5	1257.0	747.9	425.3	163.4	83.8	79.6	77.5	79.6	81.7
45°	2030.1	1862.5	1324.0	693.4	324.7	104.8	81.7	75.4	71.2	73.3	73.3
47.5°	2151.6	1963.0	1361.8	628.5	228.4	81.7	81.7	69.1	64.9	64.9	67.0
50°	2254.2	2042.6	1382.7	553.1	144.6	79.6	73.3	64.9	60.8	60.8	58.7
52.5°	2340.1	2101.3	1380.6	469.3	94.3	77.5	69.1	60.8	54.5	56.6	56.6
55°	2405.1	2147.4	1349.2	360.3	79.6	73.3	67.0	56.6	52.4	56.6	56.6
57.5°	2455.3	2168.3	1290.5	251.4	77.5	67.0	62.9	52.4	48.2	50.3	50.3
60°	2480.5	2157.9	1198.3	157.1	75.4	64.9	58.7	48.2	44.0	41.9	44.0
62.5°	2472.1	2120.1	1066.4	104.8	71.2	60.8	54.5	46.1	39.8	35.6	35.6
65°	2421.8	2036.3	909.2	88.0	69.1	60.8	52.4	44.0	35.6	33.5	33.5
67.5°	2308.7	1862.5	674.6	81.7	69.1	58.7	50.3	41.9	35.6	31.4	31.4
70°	2076.2	1550.3	324.7	75.4	69.1	60.8	50.3	39.8	33.5	29.3	29.3
72.5°	1680.2	1095.7	83.8	64.9	67.0	60.8	52.4	39.8	31.4	27.2	27.2
75°	1095.7	525.8	71.2	52.4	60.8	56.6	50.3	39.8	31.4	25.1	25.1
77.5°	356.2	73.3	64.9	46.1	54.5	54.5	50.3	39.8	31.4	23.0	23.0
80°	56.6	52.4	56.6	35.6	39.8	46.1	39.8	37.7	29.3	21.0	21.0
82.5°	39.8	48.2	41.9	29.3	35.6	37.7	31.4	25.1	21.0	18.9	18.9
85°	29.3	31.4	25.1	23.0	27.2	31.4	25.1	18.9	16.8	16.8	16.8
87.5°	10.5	12.6	12.6	16.8	21.0	23.0	14.7	10.5	12.6	12.6	12.6
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)