

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: P507536

Luminaire Tested: **VERD-S-CA1-40-730-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
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-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 760mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5536 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

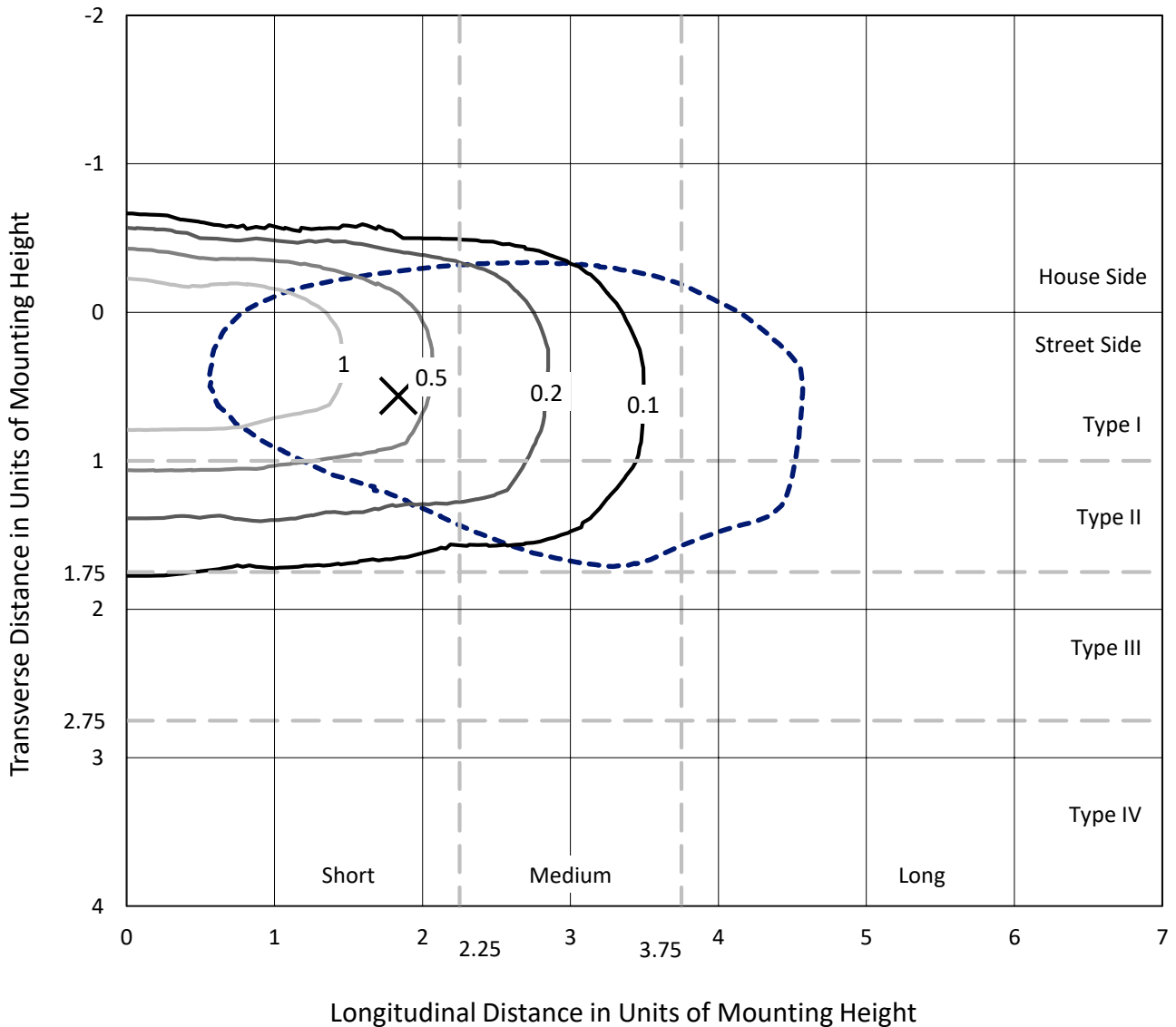
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

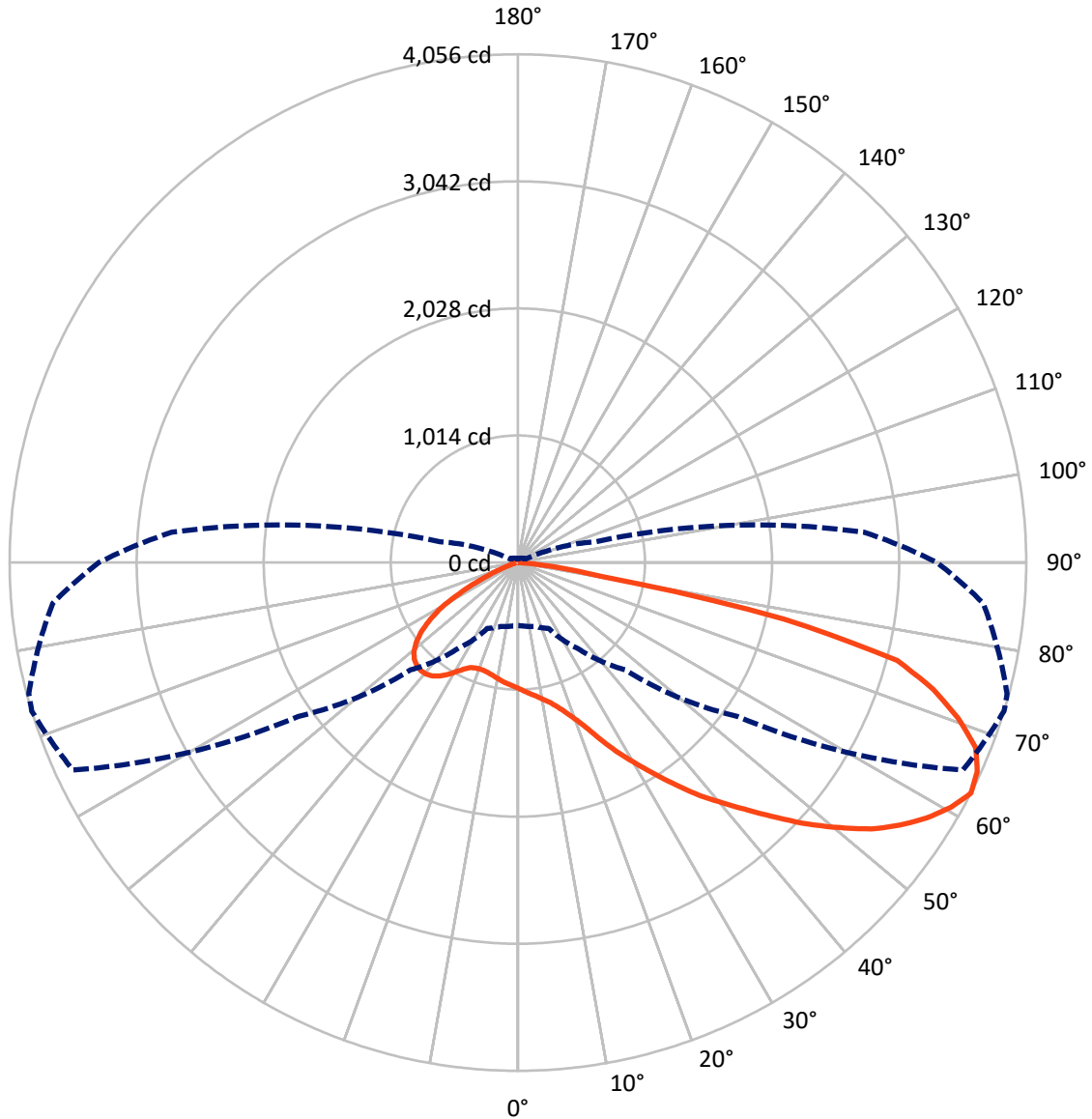
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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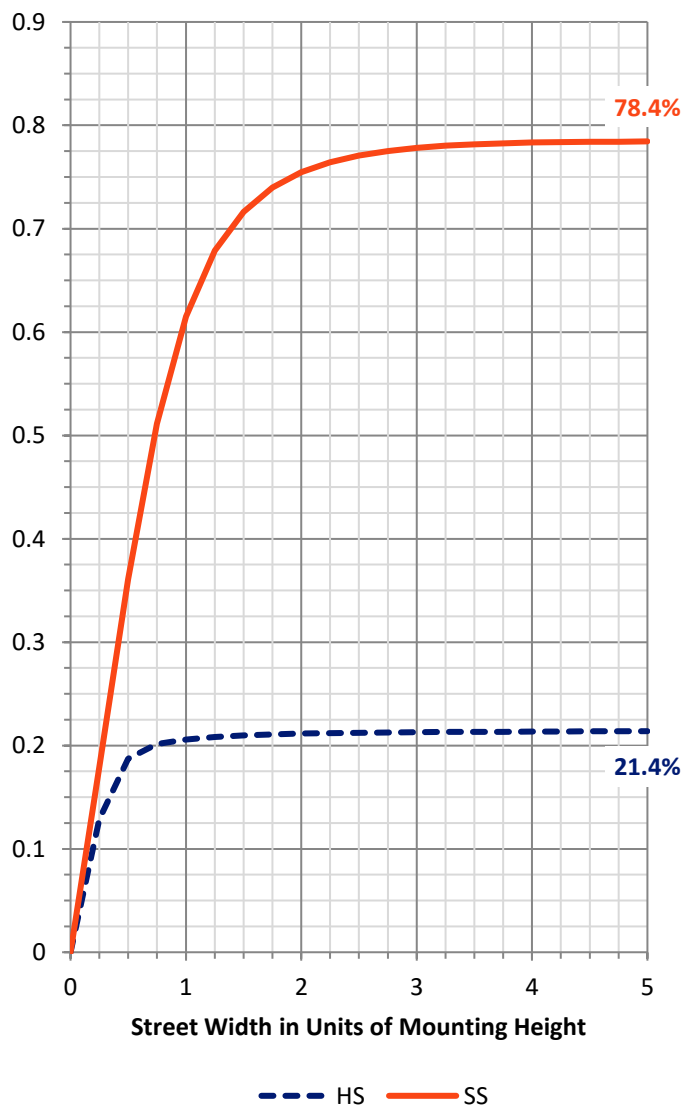
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1199.1	0.0	1199.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4336.9	0.0	4336.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	5536.0	0.0	5536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	1.7
10°-20°	289.5	5.2
20°-30°	500.8	9.0
30°-40°	735.5	13.3
40°-50°	956.0	17.3
50°-60°	1108.4	20.0
60°-70°	1115.5	20.2
70°-80°	679.8	12.3
80°-90°	54.2	1.0
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°	5536.0	100.0
0°-180°	5536.0	100.0

Coefficient of Utilization



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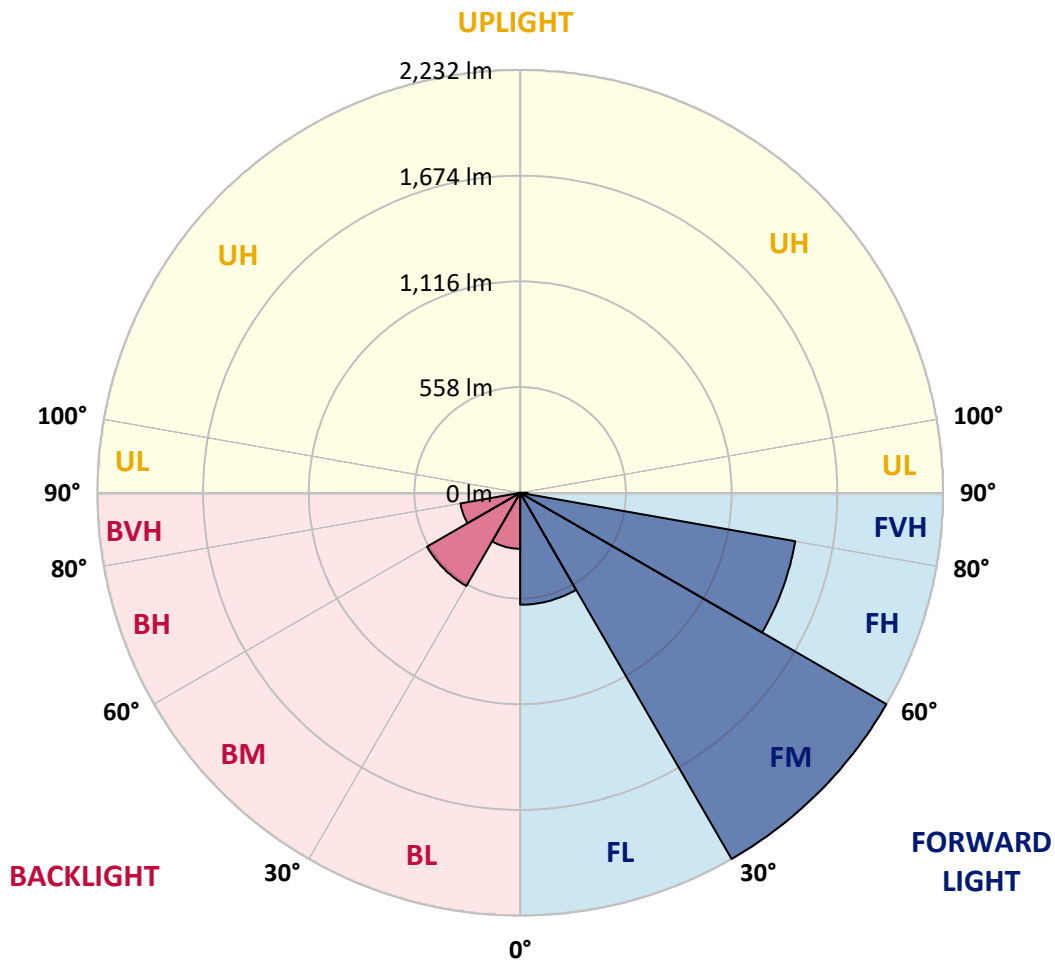
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.9	10.7			
FM (30°-60°)	2232.0	40.3			
FH (60°-80°)	1474.7	26.6			G1/1800
FVH (80°-90°)	39.3	0.7			G1/100
BL (0°-30°)	295.6	5.3	B1/500		
BM (30°-60°)	568.0	10.3	B1/1000		
BH (60°-80°)	320.7	5.8	B1/500		G1/500
BVH (80°-90°)	14.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1073.3	1073.3	1071.6	1069.9	1063.1	1056.4	1046.2	1037.8	1029.3	1025.9	1012.4
5°	1135.8	1135.8	1134.1	1127.4	1118.9	1107.1	1090.2	1068.2	1053.0	1051.3	1027.6
7.5°	1188.2	1186.5	1184.8	1181.4	1173.0	1157.8	1132.4	1103.7	1078.3	1071.6	1042.8
10°	1238.9	1240.6	1237.2	1228.8	1218.6	1200.0	1174.7	1140.9	1110.5	1100.3	1056.4
12.5°	1293.0	1291.3	1286.2	1276.1	1262.6	1247.4	1220.3	1186.5	1145.9	1135.8	1078.3
15°	1338.6	1340.3	1331.9	1325.1	1311.6	1294.7	1271.0	1237.2	1196.7	1184.8	1110.5
17.5°	1379.2	1379.2	1377.5	1374.1	1364.0	1352.1	1328.5	1304.8	1262.6	1244.0	1159.5
20°	1409.6	1411.3	1414.7	1421.4	1423.1	1413.0	1401.2	1384.3	1343.7	1325.1	1220.3
22.5°	1436.7	1440.0	1453.6	1473.8	1490.7	1490.7	1489.1	1487.4	1446.8	1435.0	1309.9
25°	1443.4	1448.5	1478.9	1522.9	1549.9	1571.9	1602.3	1614.1	1583.7	1563.4	1426.5
27.5°	1453.6	1458.6	1492.4	1544.8	1612.4	1661.5	1715.5	1746.0	1724.0	1703.7	1560.0
30°	1445.1	1451.9	1489.1	1563.4	1653.0	1756.1	1823.7	1869.3	1862.6	1850.8	1698.6
32.5°	1423.1	1429.9	1473.8	1565.1	1702.0	1852.4	1928.5	1999.5	2018.1	2007.9	1844.0
35°	1379.2	1386.0	1440.0	1551.6	1725.7	1925.1	2033.3	2138.1	2180.3	2173.6	2002.9
37.5°	1323.4	1323.4	1387.6	1511.0	1734.1	1980.9	2126.3	2276.7	2359.5	2349.4	2163.4
40°	1230.5	1247.4	1326.8	1467.1	1720.6	2021.5	2215.8	2420.3	2523.4	2518.4	2337.5
42.5°	1137.5	1151.0	1227.1	1391.0	1688.5	2045.1	2290.2	2570.8	2704.3	2700.9	2504.9
45°	1054.7	1064.8	1127.4	1286.2	1620.9	2051.9	2361.2	2731.3	2903.7	2897.0	2675.6
47.5°	948.2	968.5	1047.9	1188.2	1527.9	2031.6	2427.1	2932.5	3120.1	3113.3	2859.8
50°	718.3	731.9	897.5	1108.8	1407.9	1980.9	2481.2	3130.2	3324.6	3311.1	3027.1
52.5°	652.4	660.9	713.3	1010.7	1296.4	1889.6	2515.0	3366.8	3532.5	3510.5	3199.5
55°	610.2	616.9	647.3	809.6	1198.3	1735.8	2525.1	3590.0	3699.8	3677.8	3358.4
57.5°	573.0	576.4	606.8	689.6	1081.7	1541.4	2489.6	3755.6	3846.9	3823.2	3495.3
60°	534.1	539.2	567.9	628.7	941.4	1362.3	2379.8	3887.4	3968.6	3948.3	3615.3
62.5°	502.0	508.7	527.3	579.7	840.0	1210.2	2139.8	3917.8	4056.4	4041.2	3726.9
65°	463.1	468.2	491.8	535.8	735.2	1115.5	1896.4	3828.3	4027.7	4046.3	3789.4
67.5°	417.5	422.5	442.8	476.6	616.9	1015.8	1683.4	3701.5	3939.8	3965.2	3743.8
70°	361.7	365.1	385.4	417.5	512.1	885.7	1460.3	3515.6	3726.9	3745.5	3562.9
72.5°	300.9	300.9	316.1	353.2	420.9	733.5	1171.3	3123.5	3466.6	3512.2	3257.0
75°	126.8	133.5	160.6	194.4	268.7	535.8	801.1	2405.1	3126.8	3165.7	2876.7
77.5°	25.4	27.0	30.4	45.6	71.0	233.2	248.5	1049.6	2170.2	2195.6	2100.9
80°	20.3	20.3	22.0	33.8	47.3	108.2	81.1	343.1	676.1	870.4	1122.3
82.5°	6.8	8.5	11.8	18.6	23.7	23.7	27.0	172.4	334.7	360.0	453.0
85°	3.4	3.4	5.1	6.8	6.8	6.8	6.8	30.4	57.5	69.3	96.3
87.5°	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1	5.1	6.8
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°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1005.7	1000.6	988.8	980.3	968.5	958.3	946.5	939.7	936.4	934.7	931.3
5°	1014.1	1000.6	976.9	951.6	929.6	912.7	889.0	877.2	870.4	867.1	865.4
7.5°	1024.3	1007.4	966.8	927.9	889.0	860.3	831.6	813.0	804.5	802.8	801.1
10°	1031.0	1004.0	949.9	907.6	856.9	811.3	777.5	755.5	743.7	742.0	740.3
12.5°	1044.5	1009.0	936.4	875.5	823.1	764.0	728.5	703.1	691.3	681.1	681.1
15°	1066.5	1020.9	929.6	848.5	779.2	721.7	676.1	649.0	640.6	627.1	623.7
17.5°	1103.7	1042.8	924.5	821.4	738.6	681.1	627.1	598.3	593.3	581.4	574.7
20°	1149.3	1075.0	927.9	796.1	696.4	630.4	576.4	547.6	530.7	520.6	517.2
22.5°	1222.0	1122.3	939.7	777.5	659.2	584.8	527.3	481.7	444.5	431.0	431.0
25°	1325.1	1203.4	960.0	762.3	622.0	540.9	469.9	392.1	343.1	324.5	319.4
27.5°	1441.7	1306.5	1007.4	748.8	591.6	491.8	387.1	300.9	248.5	231.6	231.6
30°	1575.3	1414.7	1064.8	740.3	554.4	417.5	292.4	219.7	177.5	158.9	157.2
32.5°	1707.1	1526.2	1132.4	733.5	515.5	326.2	211.3	160.6	125.1	111.6	113.2
35°	1838.9	1636.1	1189.9	733.5	451.3	234.9	150.4	111.6	89.6	82.8	82.8
37.5°	1987.7	1759.5	1235.5	723.4	354.9	167.3	103.1	81.1	74.4	71.0	71.0
40°	2141.5	1874.4	1265.9	701.4	253.5	114.9	72.7	71.0	67.6	62.5	60.8
42.5°	2285.1	2006.3	1284.5	659.2	165.6	76.1	64.2	65.9	64.2	55.8	54.1
45°	2437.2	2112.7	1294.7	574.7	109.9	62.5	57.5	60.8	62.5	55.8	54.1
47.5°	2589.4	2229.4	1301.4	447.9	72.7	60.8	54.1	59.2	60.8	54.1	52.4
50°	2749.9	2335.8	1291.3	287.3	64.2	57.5	52.4	54.1	57.5	54.1	52.4
52.5°	2890.2	2432.2	1244.0	160.6	62.5	55.8	49.0	50.7	55.8	52.4	52.4
55°	3033.9	2526.8	1156.1	94.7	60.8	52.4	49.0	50.7	52.4	49.0	50.7
57.5°	3164.0	2618.1	1024.3	77.7	60.8	50.7	50.7	47.3	47.3	43.9	43.9
60°	3263.7	2700.9	867.1	72.7	57.5	52.4	47.3	43.9	40.6	37.2	37.2
62.5°	3343.2	2771.9	644.0	67.6	55.8	50.7	43.9	38.9	33.8	30.4	30.4
65°	3387.1	2787.1	454.7	60.8	52.4	49.0	40.6	33.8	27.0	25.4	25.4
67.5°	3336.4	2707.7	277.2	57.5	49.0	47.3	38.9	30.4	23.7	22.0	22.0
70°	3142.1	2494.7	155.5	52.4	43.9	42.3	35.5	27.0	22.0	18.6	18.6
72.5°	2820.9	2182.0	77.7	43.9	37.2	37.2	32.1	23.7	20.3	16.9	16.9
75°	2383.2	1789.9	55.8	32.1	30.4	30.4	27.0	22.0	18.6	15.2	15.2
77.5°	1746.0	1179.7	45.6	27.0	22.0	22.0	23.7	20.3	16.9	13.5	13.5
80°	904.2	584.8	38.9	20.3	18.6	16.9	16.9	16.9	13.5	11.8	11.8
82.5°	400.6	224.8	25.4	15.2	15.2	13.5	13.5	13.5	11.8	10.1	10.1
85°	77.7	42.3	13.5	11.8	10.1	10.1	10.1	8.5	8.5	8.5	8.5
87.5°	6.8	6.8	6.8	6.8	6.8	5.1	5.1	5.1	5.1	5.1	5.1
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)