

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: P507537

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
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
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 760mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5999 lumens
Efficiency: N/A
Efficacy: 138.2 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 (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

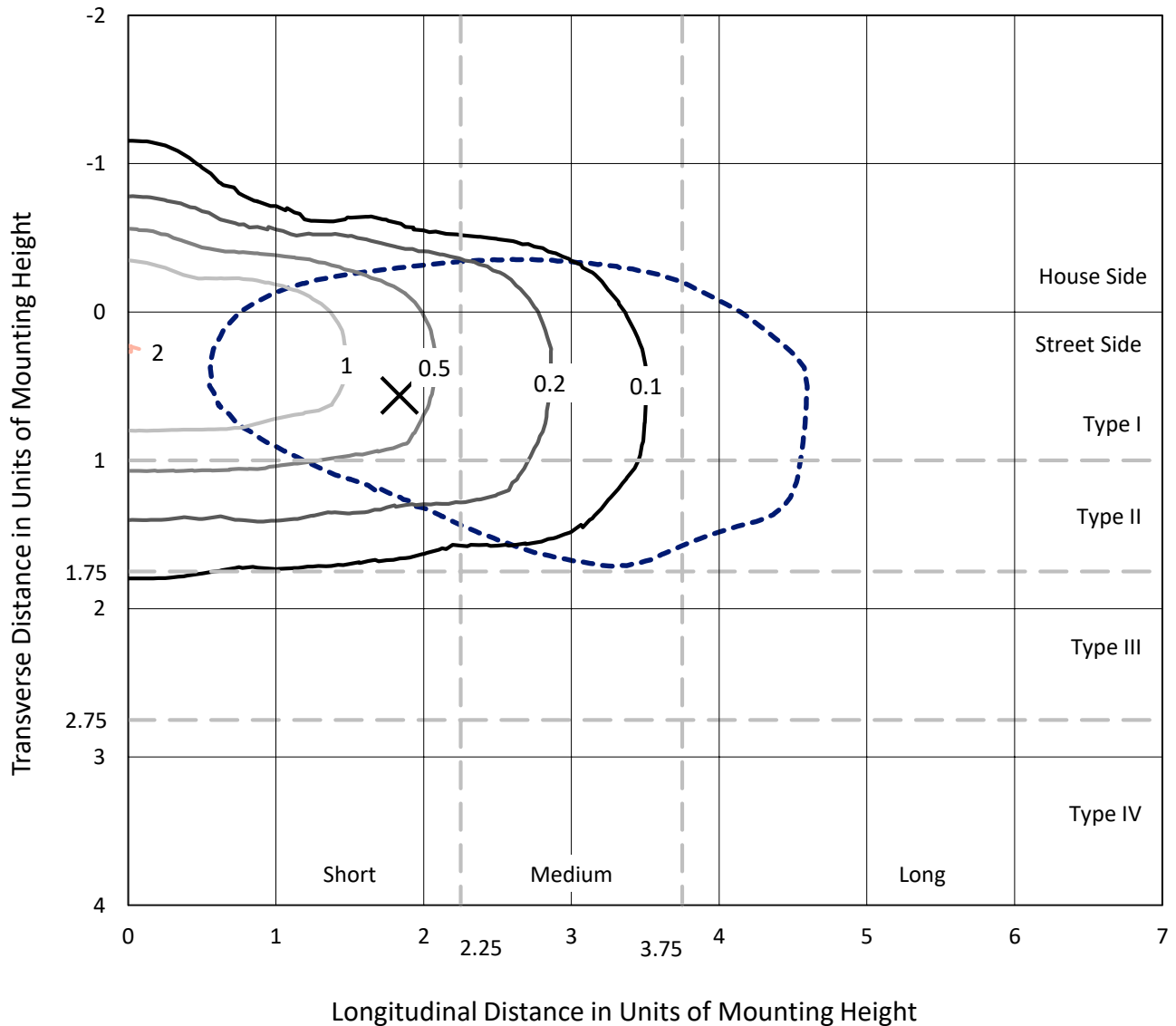


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Iso-Footcandle Lines of Horizontal Illumination

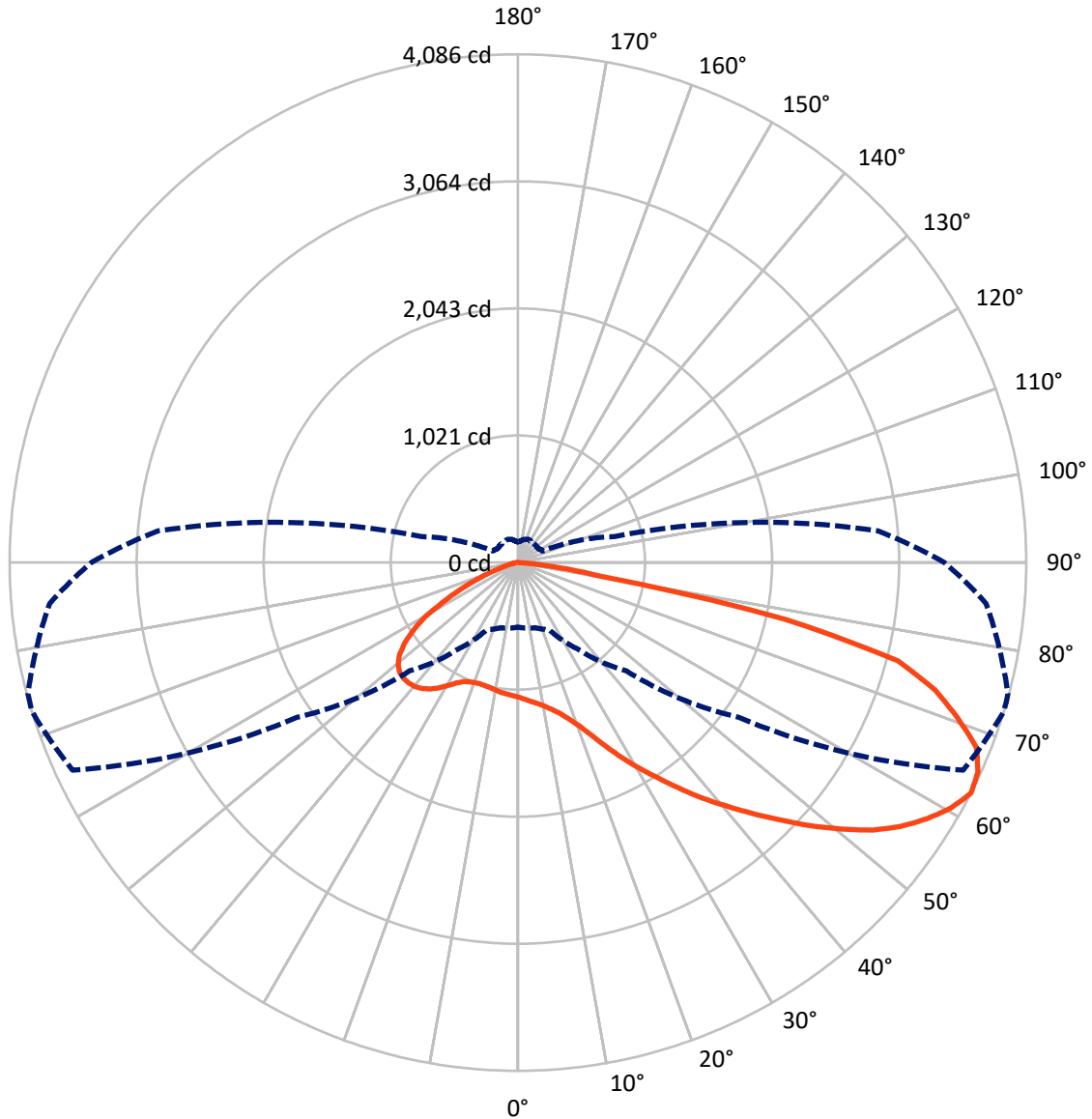
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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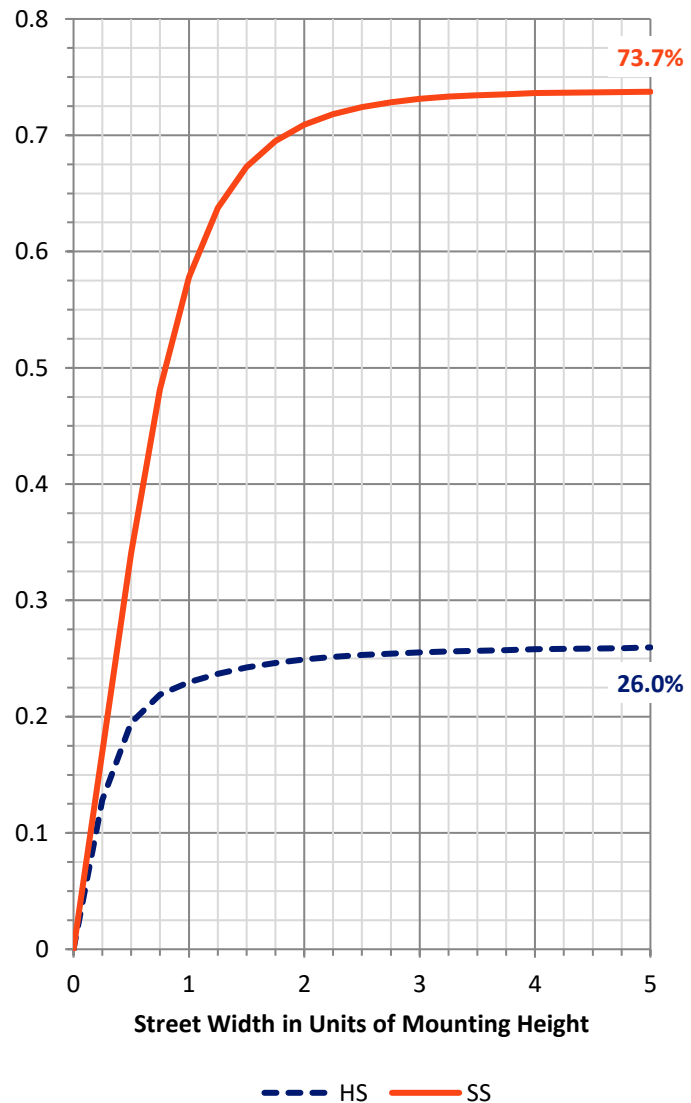
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1580.2	0.0	1580.2
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	4418.8	0.0	4418.8
	% Fixture	73.7	0.0	73.7
Total	Lumens	5999.0	0.0	5999.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	1.7
10°-20°	320.1	5.3
20°-30°	554.1	9.2
30°-40°	802.4	13.4
40°-50°	1027.8	17.1
50°-60°	1190.0	19.8
60°-70°	1198.3	20.0
70°-80°	732.6	12.2
80°-90°	69.0	1.2
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°	5999.0	100.0
0°-180°	5999.0	100.0



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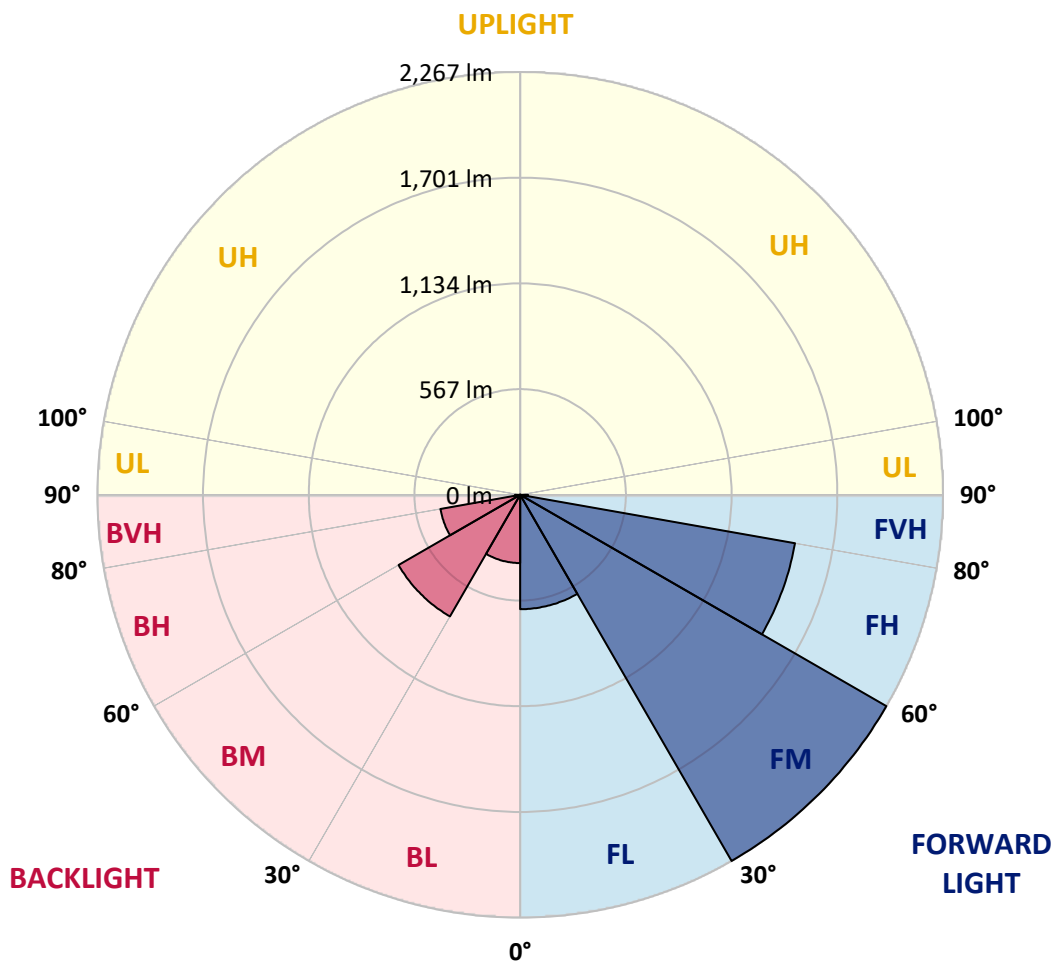
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	613.1	10.2			
FM	(30°-60°)	2267.4	37.8			
FH	(60°-80°)	1496.5	24.9			G1/1800
FVH	(80°-90°)	41.7	0.7			G1/100
BL	(0°-30°)	365.8	6.1	B1/500		
BM	(30°-60°)	752.8	12.5	B1/1000		
BH	(60°-80°)	434.4	7.2	B1/500		G1/500
BVH	(80°-90°)	27.3	0.5			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°	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6
2.5°	1139.4	1137.7	1134.3	1132.6	1129.2	1120.8	1115.7	1107.3	1100.5	1098.8	1088.7
5°	1195.2	1196.9	1195.2	1190.1	1183.3	1171.5	1154.6	1132.6	1122.5	1119.1	1102.2
7.5°	1247.6	1247.6	1245.9	1239.1	1232.4	1217.1	1193.5	1168.1	1144.4	1137.7	1115.7
10°	1298.3	1298.3	1293.2	1286.4	1276.3	1257.7	1234.0	1201.9	1173.2	1163.0	1125.9
12.5°	1352.4	1350.7	1343.9	1333.8	1320.3	1305.0	1279.7	1244.2	1212.1	1200.2	1147.8
15°	1394.6	1394.6	1389.6	1382.8	1371.0	1352.4	1328.7	1298.3	1256.0	1245.9	1178.3
17.5°	1431.8	1433.5	1430.1	1430.1	1420.0	1406.5	1386.2	1360.8	1320.3	1305.0	1223.9
20°	1462.3	1460.6	1467.3	1472.4	1475.8	1467.3	1455.5	1438.6	1398.0	1382.8	1283.1
22.5°	1475.8	1479.2	1499.4	1524.8	1540.0	1541.7	1540.0	1538.3	1502.8	1482.5	1364.2
25°	1482.5	1487.6	1518.0	1562.0	1595.8	1621.2	1648.2	1665.1	1633.0	1617.8	1485.9
27.5°	1489.3	1494.4	1529.9	1584.0	1648.2	1709.1	1763.2	1795.3	1771.6	1753.0	1611.0
30°	1477.5	1482.5	1523.1	1599.2	1690.5	1797.0	1873.0	1918.7	1915.3	1903.5	1754.7
32.5°	1452.1	1457.2	1502.8	1597.5	1734.4	1886.6	1971.1	2047.2	2062.4	2050.5	1898.4
35°	1406.5	1413.2	1465.6	1577.2	1754.7	1960.9	2074.2	2185.8	2224.7	2226.4	2055.6
37.5°	1343.9	1347.3	1411.5	1538.3	1761.5	2013.4	2160.4	2319.3	2398.8	2400.5	2216.2
40°	1259.4	1267.9	1347.3	1489.3	1746.3	2050.5	2246.6	2464.7	2569.5	2557.7	2390.3
42.5°	1163.0	1169.8	1247.6	1411.5	1710.8	2072.5	2326.1	2616.8	2755.5	2748.7	2554.3
45°	1076.8	1087.0	1146.1	1303.4	1643.1	2077.6	2395.4	2769.0	2948.2	2939.7	2721.7
47.5°	961.9	987.2	1066.7	1207.0	1541.7	2055.6	2457.9	2975.2	3161.2	3149.3	2897.5
50°	740.4	748.9	916.2	1125.9	1426.8	2001.5	2512.0	3166.3	3367.4	3359.0	3081.7
52.5°	667.7	674.5	728.6	1032.9	1311.8	1905.2	2544.2	3411.4	3573.7	3550.0	3247.4
55°	627.2	633.9	664.4	824.9	1212.1	1759.8	2550.9	3619.3	3741.0	3719.0	3402.9
57.5°	590.0	595.0	623.8	706.6	1097.1	1558.6	2515.4	3786.7	3883.0	3861.0	3543.2
60°	551.1	556.2	586.6	642.4	955.1	1374.4	2398.8	3916.8	4003.0	3981.1	3670.0
62.5°	519.0	527.4	542.6	595.0	853.7	1230.7	2170.6	3948.9	4085.9	4077.4	3778.2
65°	480.1	483.5	507.1	549.4	754.0	1130.9	1925.4	3856.0	4063.9	4079.1	3842.4
67.5°	436.1	437.8	459.8	490.2	630.5	1032.9	1707.4	3730.9	3976.0	4001.3	3795.1
70°	377.0	378.7	399.0	431.1	522.4	895.9	1482.5	3546.6	3751.2	3774.8	3612.5
72.5°	314.4	314.4	331.3	366.8	431.1	742.1	1186.7	3142.6	3509.4	3548.3	3315.0
75°	136.9	142.0	170.7	204.5	278.9	546.0	809.7	2432.6	3154.4	3181.5	2905.9
77.5°	37.2	37.2	44.0	57.5	81.1	243.4	257.0	1070.1	2197.6	2266.9	2148.6
80°	30.4	30.4	33.8	44.0	55.8	120.0	86.2	344.9	679.6	895.9	1114.0
82.5°	16.9	16.9	20.3	25.4	30.4	30.4	30.4	175.8	334.7	356.7	466.6
85°	8.5	10.1	10.1	11.8	11.8	10.1	10.1	35.5	64.2	72.7	111.6
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	3.4	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°	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6
2.5°	1085.3	1080.2	1073.4	1068.4	1058.2	1048.1	1041.3	1036.3	1034.6	1032.9	1032.9
5°	1092.0	1083.6	1065.0	1046.4	1031.2	1017.7	1005.8	997.4	994.0	992.3	992.3
7.5°	1102.2	1090.4	1059.9	1032.9	1005.8	985.5	966.9	955.1	948.4	950.0	955.1
10°	1107.3	1088.7	1048.1	1021.0	985.5	953.4	931.4	917.9	912.9	912.9	911.2
12.5°	1120.8	1093.7	1039.6	997.4	966.9	923.0	897.6	885.8	879.0	868.9	865.5
15°	1141.1	1107.3	1036.3	980.5	933.1	894.3	860.4	843.5	838.5	824.9	824.9
17.5°	1178.3	1130.9	1036.3	961.9	901.0	863.8	819.9	796.2	792.8	784.4	782.7
20°	1222.2	1163.0	1044.7	943.3	867.2	818.2	769.2	745.5	737.0	728.6	728.6
22.5°	1291.5	1212.1	1059.9	929.8	831.7	770.9	716.8	683.0	669.4	667.7	664.4
25°	1398.0	1289.8	1083.6	916.2	796.2	718.5	664.4	620.4	598.4	595.0	593.4
27.5°	1514.7	1396.3	1130.9	904.4	757.3	659.3	595.0	547.7	520.7	517.3	515.6
30°	1639.8	1506.2	1193.5	894.3	708.3	591.7	519.0	473.3	448.0	441.2	442.9
32.5°	1776.7	1624.5	1261.1	885.8	655.9	503.8	436.1	405.7	378.7	366.8	368.5
35°	1910.2	1729.4	1320.3	879.0	586.6	424.3	371.9	339.8	312.7	297.5	297.5
37.5°	2060.7	1852.8	1369.3	865.5	512.2	370.2	319.5	287.4	267.1	253.6	253.6
40°	2207.8	1976.2	1408.2	840.2	429.4	326.3	263.7	245.1	231.6	223.1	219.8
42.5°	2351.4	2099.6	1433.5	797.9	360.1	273.9	219.8	218.1	219.8	211.3	209.6
45°	2500.2	2221.3	1452.1	730.3	311.0	226.5	196.1	207.9	219.8	216.4	216.4
47.5°	2662.5	2339.6	1467.3	620.4	263.7	199.5	194.4	206.2	221.5	223.1	223.1
50°	2818.0	2459.6	1462.3	480.1	231.6	197.8	196.1	199.5	219.8	224.8	221.5
52.5°	2963.4	2562.8	1421.7	349.9	216.4	201.2	201.2	197.8	214.7	218.1	219.8
55°	3110.5	2659.1	1330.4	277.2	207.9	201.2	209.6	201.2	206.2	207.9	211.3
57.5°	3244.0	2757.2	1195.2	248.5	206.2	201.2	209.6	204.5	204.5	197.8	196.1
60°	3347.1	2838.3	1031.2	236.7	201.2	202.9	206.2	206.2	201.2	186.0	180.9
62.5°	3428.3	2905.9	806.4	221.5	197.8	199.5	197.8	204.5	192.7	170.7	165.7
65°	3473.9	2917.8	617.0	204.5	189.3	196.1	191.0	189.3	179.2	155.5	145.4
67.5°	3423.2	2834.9	431.1	187.6	179.2	191.0	182.6	175.8	164.0	142.0	128.5
70°	3227.1	2594.9	284.0	165.7	165.7	179.2	172.4	162.3	147.1	130.2	115.0
72.5°	2858.6	2236.5	170.7	136.9	147.1	164.0	160.6	147.1	103.1	79.5	69.3
75°	2417.4	1837.5	109.9	103.1	120.0	147.1	148.8	131.9	87.9	71.0	71.0
77.5°	1756.4	1207.0	64.2	57.5	79.5	118.3	126.8	96.4	94.7	131.9	96.4
80°	901.0	584.9	49.0	35.5	42.3	87.9	71.0	72.7	143.7	106.5	67.6
82.5°	390.5	231.6	30.4	25.4	27.0	44.0	45.6	120.0	111.6	62.5	42.3
85°	82.8	44.0	16.9	16.9	16.9	20.3	25.4	130.2	69.3	32.1	13.5
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	6.8	6.8	6.8	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)