

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: P507648

Luminaire Tested: **VERD-S-CA1-60-750-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507648
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-CA1-60-750-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1150mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8206 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

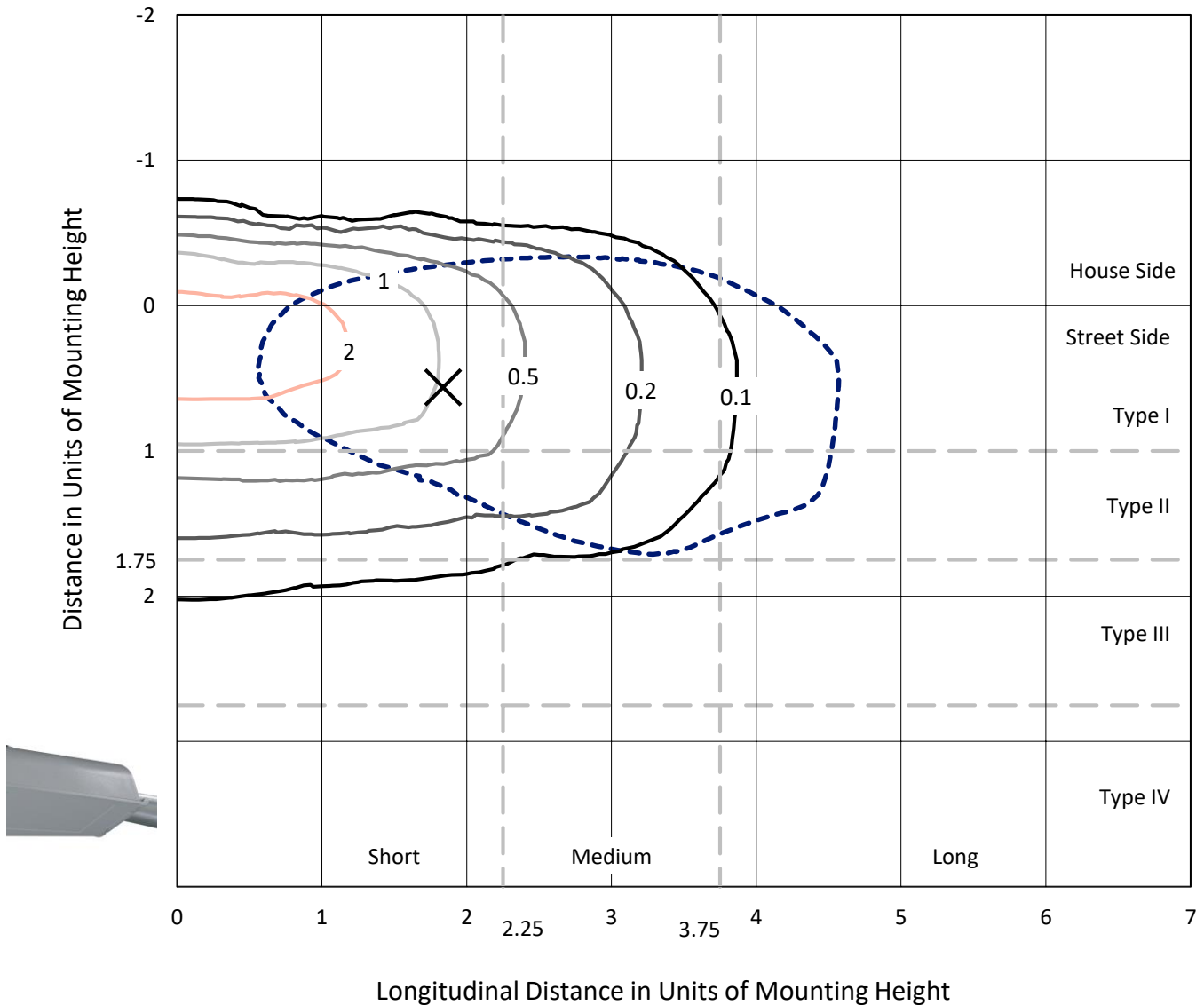
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

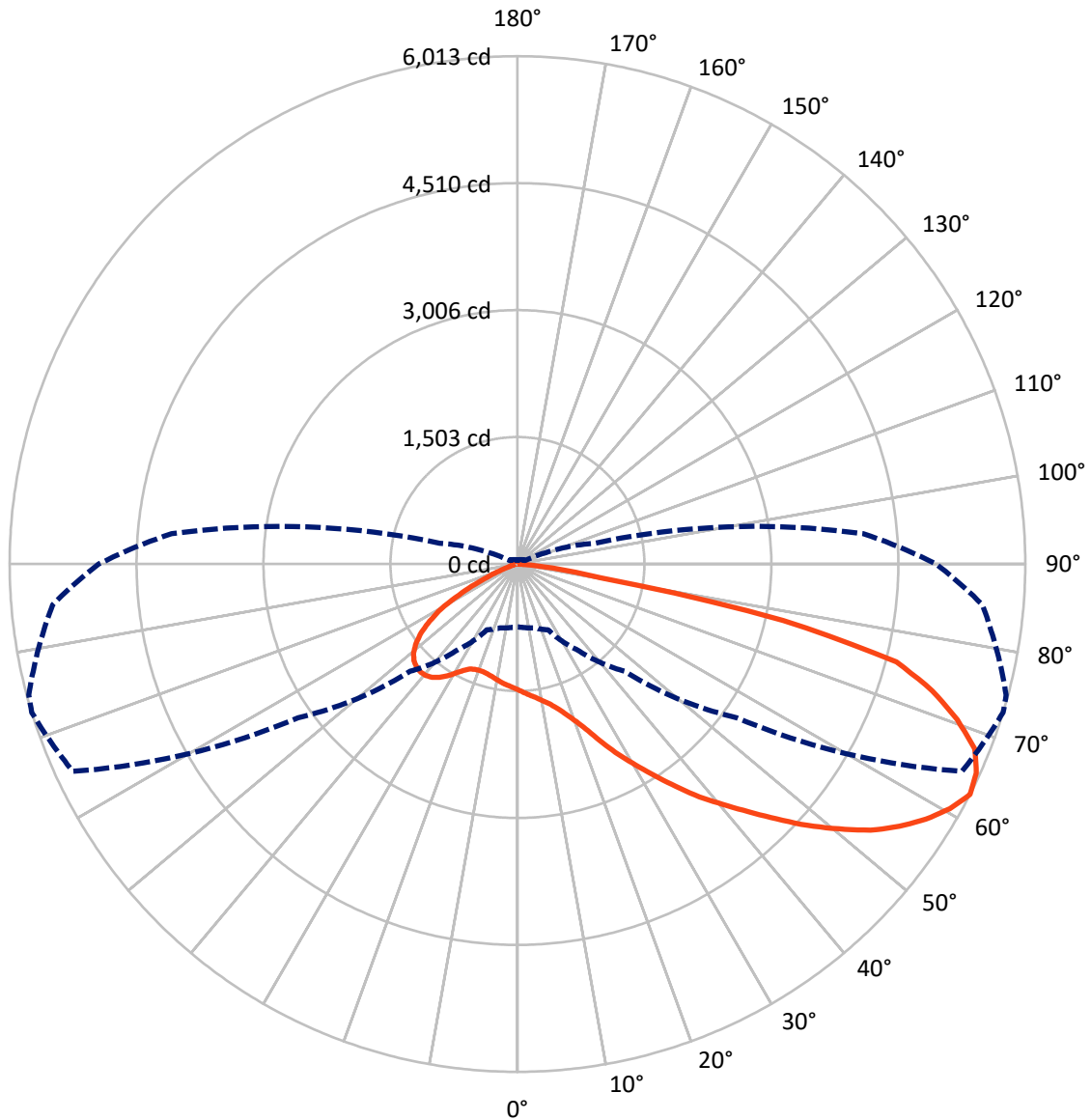
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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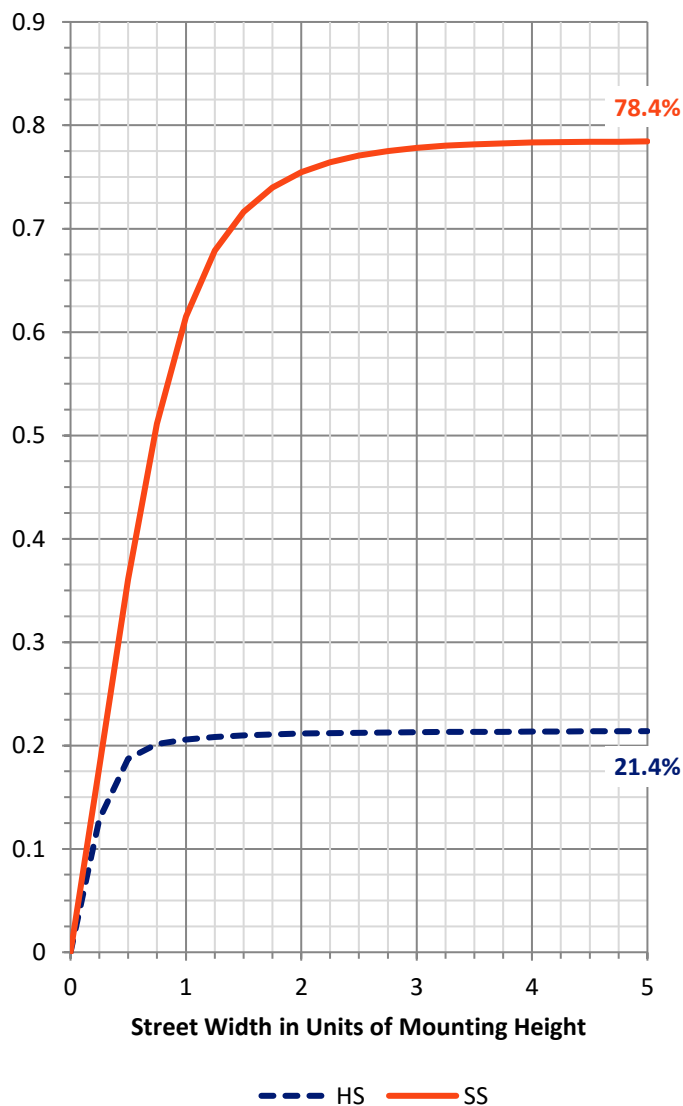
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.4	0.0	1777.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6428.6	0.0	6428.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	8206.0	0.0	8206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.7
10°-20°	429.2	5.2
20°-30°	742.4	9.0
30°-40°	1090.3	13.3
40°-50°	1417.1	17.3
50°-60°	1643.1	20.0
60°-70°	1653.6	20.2
70°-80°	1007.6	12.3
80°-90°	80.2	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°	8206.0	100.0
0°-180°	8206.0	100.0

Coefficient of Utilization



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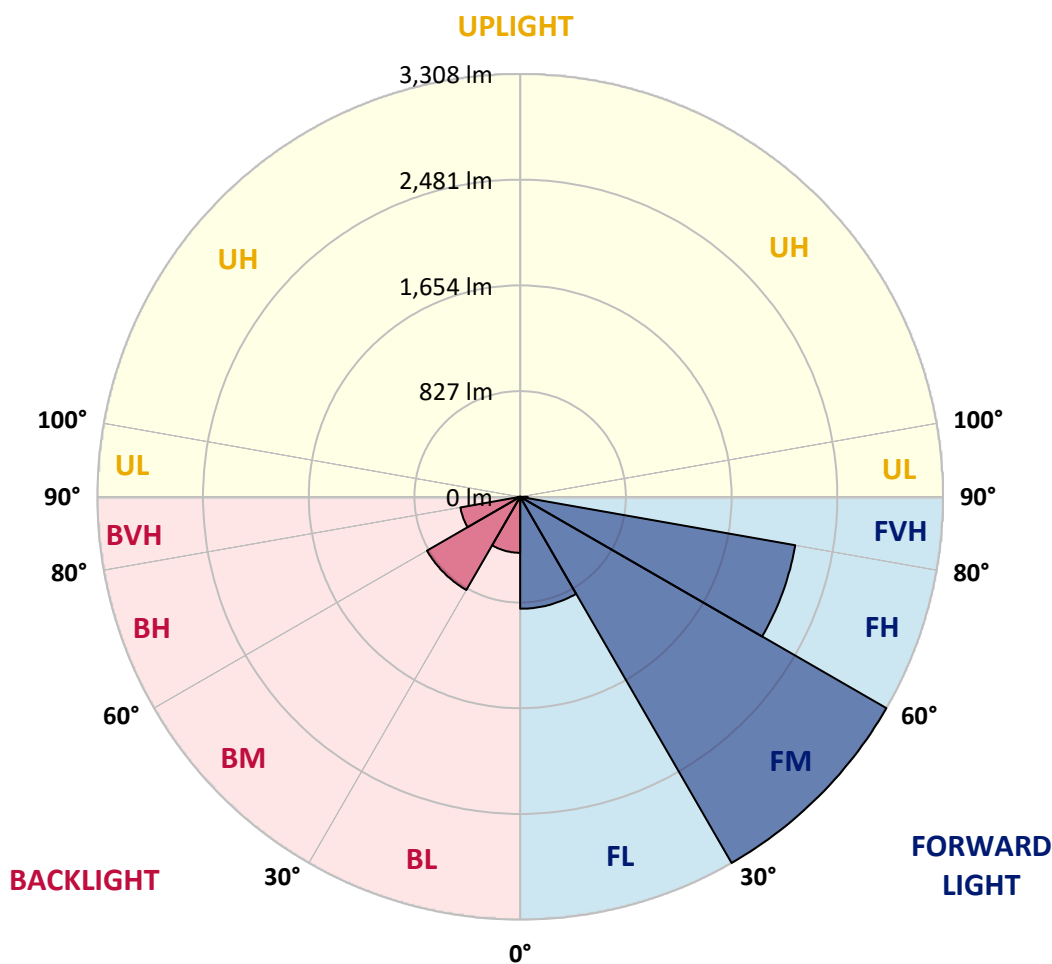
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	875.9	10.7			
FM (30°-60°)	3308.5	40.3			
FH (60°-80°)	2185.9	26.6			G2/5000
FVH (80°-90°)	58.3	0.7			G1/100
BL (0°-30°)	438.2	5.3	B1/500		
BM (30°-60°)	842.0	10.3	B1/1000		
BH (60°-80°)	475.3	5.8	B1/500		G1/500
BVH (80°-90°)	21.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7
2.5°	1590.9	1590.9	1588.4	1585.9	1575.9	1565.8	1550.8	1538.3	1525.8	1520.8	1500.7
5°	1683.6	1683.6	1681.1	1671.1	1658.5	1641.0	1616.0	1583.4	1560.8	1558.3	1523.3
7.5°	1761.3	1758.8	1756.3	1751.2	1738.7	1716.2	1678.6	1636.0	1598.4	1588.4	1545.8
10°	1836.4	1838.9	1833.9	1821.4	1806.4	1778.8	1741.2	1691.1	1646.0	1631.0	1565.8
12.5°	1916.6	1914.1	1906.6	1891.5	1871.5	1849.0	1808.9	1758.8	1698.6	1683.6	1598.4
15°	1984.2	1986.7	1974.2	1964.2	1944.2	1919.1	1884.0	1833.9	1773.8	1756.3	1646.0
17.5°	2044.4	2044.4	2041.9	2036.9	2021.8	2004.3	1969.2	1934.1	1871.5	1843.9	1718.7
20°	2089.5	2092.0	2097.0	2107.0	2109.5	2094.5	2076.9	2051.9	1991.8	1964.2	1808.9
22.5°	2129.6	2134.6	2154.6	2184.7	2209.7	2209.7	2207.2	2204.7	2144.6	2127.0	1941.7
25°	2139.6	2147.1	2192.2	2257.3	2297.4	2330.0	2375.1	2392.6	2347.5	2317.5	2114.5
27.5°	2154.6	2162.1	2212.2	2289.9	2390.1	2462.8	2542.9	2588.0	2555.5	2525.4	2312.4
30°	2142.1	2152.1	2207.2	2317.5	2450.2	2603.1	2703.3	2770.9	2760.9	2743.4	2517.9
32.5°	2109.5	2119.5	2184.7	2320.0	2522.9	2745.9	2858.6	2963.8	2991.4	2976.4	2733.3
35°	2044.4	2054.4	2134.6	2299.9	2558.0	2853.6	3013.9	3169.3	3231.9	3221.9	2968.8
37.5°	1961.7	1961.7	2056.9	2239.8	2570.5	2936.3	3151.7	3374.7	3497.5	3482.4	3206.9
40°	1823.9	1849.0	1966.7	2174.7	2550.5	2996.4	3284.5	3587.7	3740.5	3733.0	3464.9
42.5°	1686.1	1706.1	1818.9	2061.9	2502.9	3031.5	3394.8	3810.6	4008.6	4003.6	3712.9
45°	1563.3	1578.4	1671.1	1906.6	2402.6	3041.5	3500.0	4048.7	4304.2	4294.2	3966.0
47.5°	1405.5	1435.6	1553.3	1761.3	2264.8	3011.4	3597.7	4346.8	4624.9	4614.9	4239.1
50°	1064.8	1084.8	1330.3	1643.5	2087.0	2936.3	3677.9	4639.9	4928.0	4908.0	4487.1
52.5°	967.1	979.6	1057.3	1498.2	1921.6	2801.0	3728.0	4990.7	5236.2	5203.6	4742.6
55°	904.4	914.5	959.6	1200.1	1776.3	2573.0	3743.0	5321.4	5484.2	5451.7	4978.1
57.5°	849.3	854.3	899.4	1022.2	1603.4	2284.9	3690.4	5566.9	5702.2	5667.1	5181.1
60°	791.7	799.2	841.8	932.0	1395.5	2019.3	3527.5	5762.3	5882.6	5852.5	5359.0
62.5°	744.1	754.1	781.7	859.3	1245.2	1793.8	3171.8	5807.4	6012.9	5990.3	5524.3
65°	686.5	694.0	729.1	794.2	1089.8	1653.5	2811.0	5674.6	5970.3	5997.8	5617.0
67.5°	618.8	626.3	656.4	706.5	914.5	1505.7	2495.3	5486.7	5840.0	5877.6	5549.4
70°	536.1	541.2	571.2	618.8	759.1	1312.8	2164.6	5211.1	5524.3	5551.9	5281.3
72.5°	446.0	446.0	468.5	523.6	623.8	1087.3	1736.2	4629.9	5138.5	5206.1	4827.8
75°	187.9	197.9	238.0	288.1	398.4	794.2	1187.5	3565.1	4634.9	4692.5	4264.1
77.5°	37.6	40.1	45.1	67.6	105.2	345.7	368.3	1555.8	3216.9	3254.5	3114.2
80°	30.1	30.1	32.6	50.1	70.2	160.3	120.3	508.6	1002.1	1290.3	1663.6
82.5°	10.0	12.5	17.5	27.6	35.1	35.1	40.1	255.5	496.1	533.6	671.4
85°	5.0	5.0	7.5	10.0	10.0	10.0	10.0	45.1	85.2	102.7	142.8
87.5°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.5	7.5	10.0
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°	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7
2.5°	1490.7	1483.2	1465.6	1453.1	1435.6	1420.5	1403.0	1393.0	1388.0	1385.5	1380.5
5°	1503.2	1483.2	1448.1	1410.5	1377.9	1352.9	1317.8	1300.3	1290.3	1285.2	1282.7
7.5°	1518.2	1493.2	1433.1	1375.4	1317.8	1275.2	1232.6	1205.1	1192.6	1190.0	1187.5
10°	1528.3	1488.2	1408.0	1345.4	1270.2	1202.6	1152.5	1119.9	1102.4	1099.9	1097.3
12.5°	1548.3	1495.7	1388.0	1297.8	1220.1	1132.4	1079.8	1042.2	1024.7	1009.7	1009.7
15°	1580.9	1513.2	1377.9	1257.7	1155.0	1069.8	1002.1	962.1	949.5	929.5	924.5
17.5°	1636.0	1545.8	1370.4	1217.6	1094.8	1009.7	929.5	886.9	879.4	861.8	851.8
20°	1703.6	1593.4	1375.4	1180.0	1032.2	934.5	854.3	811.7	786.7	771.7	766.6
22.5°	1811.4	1663.6	1393.0	1152.5	977.1	866.9	781.7	714.0	658.9	638.9	638.9
25°	1964.2	1783.8	1423.0	1129.9	922.0	801.7	696.5	581.2	508.6	481.0	473.5
27.5°	2137.1	1936.6	1493.2	1109.9	876.9	729.1	573.7	446.0	368.3	343.2	343.2
30°	2335.0	2097.0	1578.4	1097.3	821.8	618.8	433.4	325.7	263.1	235.5	233.0
32.5°	2530.4	2262.3	1678.6	1087.3	764.1	483.5	313.2	238.0	185.4	165.4	167.9
35°	2725.8	2425.2	1763.8	1087.3	668.9	348.2	223.0	165.4	132.8	122.8	122.8
37.5°	2946.3	2608.1	1831.4	1072.3	526.1	248.0	152.8	120.3	110.2	105.2	105.2
40°	3174.3	2778.4	1876.5	1039.7	375.8	170.4	107.7	105.2	100.2	92.7	90.2
42.5°	3387.2	2973.9	1904.1	977.1	245.5	112.7	95.2	97.7	95.2	82.7	80.2
45°	3612.7	3131.7	1919.1	851.8	162.8	92.7	85.2	90.2	92.7	82.7	80.2
47.5°	3838.2	3304.6	1929.1	663.9	107.7	90.2	80.2	87.7	90.2	80.2	77.7
50°	4076.2	3462.4	1914.1	425.9	95.2	85.2	77.7	80.2	85.2	80.2	77.7
52.5°	4284.2	3605.2	1843.9	238.0	92.7	82.7	72.7	75.2	82.7	77.7	77.7
55°	4497.1	3745.5	1713.7	140.3	90.2	77.7	72.7	75.2	77.7	72.7	75.2
57.5°	4690.0	3880.8	1518.2	115.2	90.2	75.2	75.2	70.2	70.2	65.1	65.1
60°	4837.8	4003.6	1285.2	107.7	85.2	77.7	70.2	65.1	60.1	55.1	55.1
62.5°	4955.6	4108.8	954.5	100.2	82.7	75.2	65.1	57.6	50.1	45.1	45.1
65°	5020.7	4131.3	673.9	90.2	77.7	72.7	60.1	50.1	40.1	37.6	37.6
67.5°	4945.6	4013.6	410.9	85.2	72.7	70.2	57.6	45.1	35.1	32.6	32.6
70°	4657.5	3697.9	230.5	77.7	65.1	62.6	52.6	40.1	32.6	27.6	27.6
72.5°	4181.4	3234.4	115.2	65.1	55.1	55.1	47.6	35.1	30.1	25.1	25.1
75°	3532.6	2653.2	82.7	47.6	45.1	45.1	40.1	32.6	27.6	22.5	22.5
77.5°	2588.0	1748.7	67.6	40.1	32.6	32.6	35.1	30.1	25.1	20.0	20.0
80°	1340.4	866.9	57.6	30.1	27.6	25.1	25.1	25.1	20.0	17.5	17.5
82.5°	593.8	333.2	37.6	22.5	22.5	20.0	20.0	20.0	17.5	15.0	15.0
85°	115.2	62.6	20.0	17.5	15.0	15.0	15.0	12.5	12.5	12.5	12.5
87.5°	10.0	10.0	10.0	10.0	10.0	7.5	7.5	7.5	7.5	7.5	7.5
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)