

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: P507584

Luminaire Tested: **VERD-S-CA1-50-730-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507584  
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-CA1-50-730-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 940mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6737 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

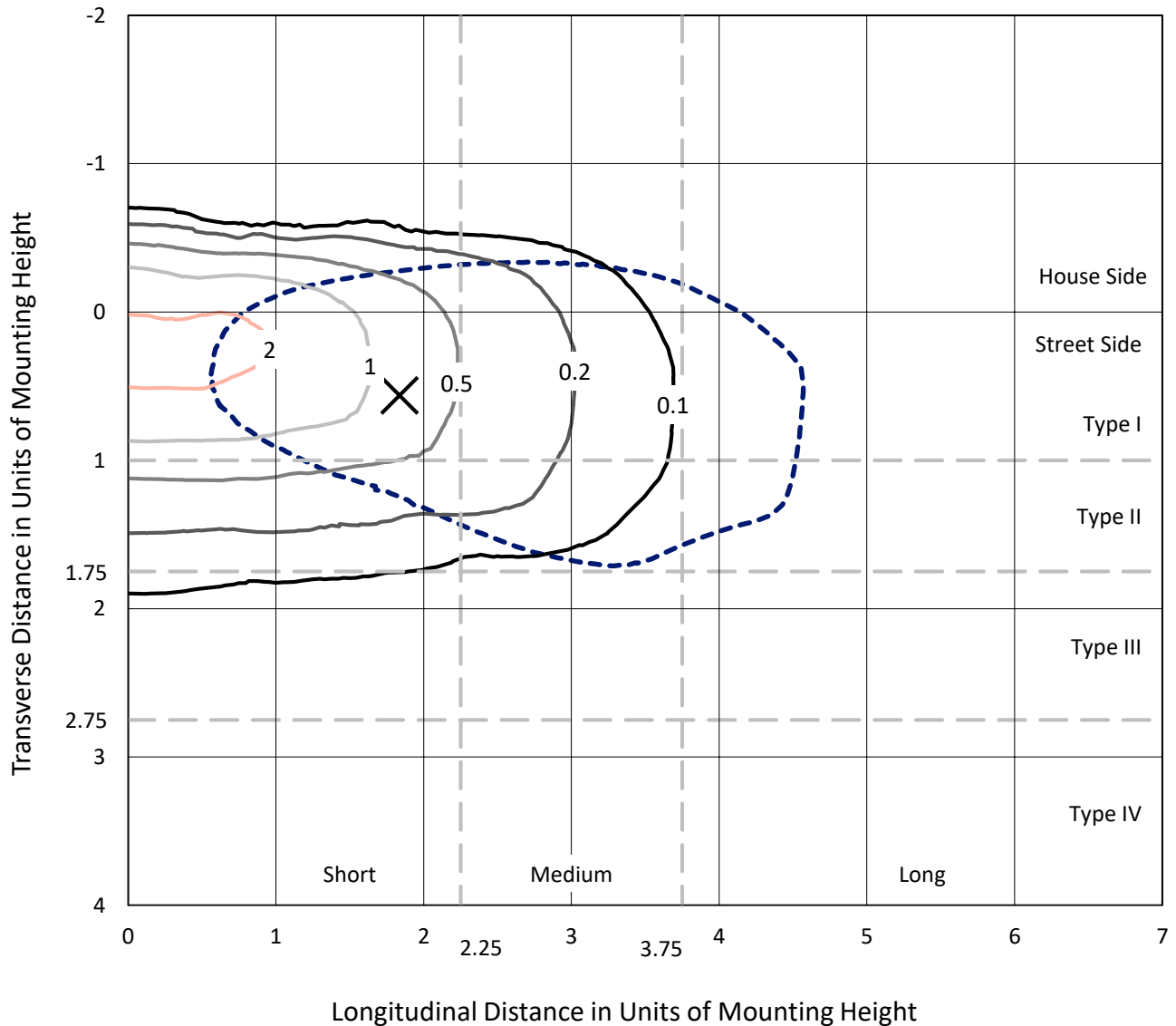
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

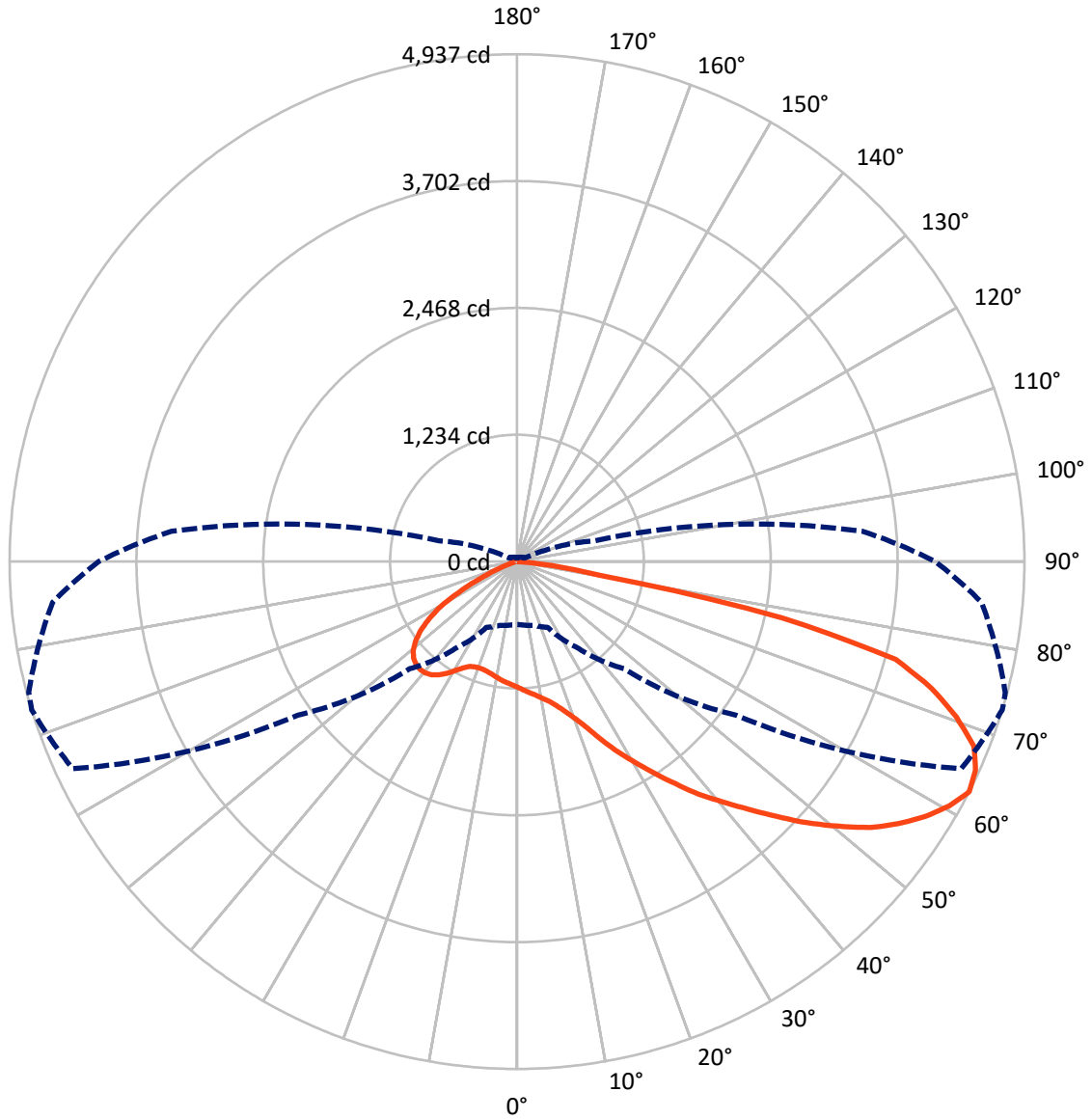
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P507584  
CATALOG NUMBER: VERD-S-CA1-50-730-U-T2-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-S-CA1-50-730-U-T2-HSS

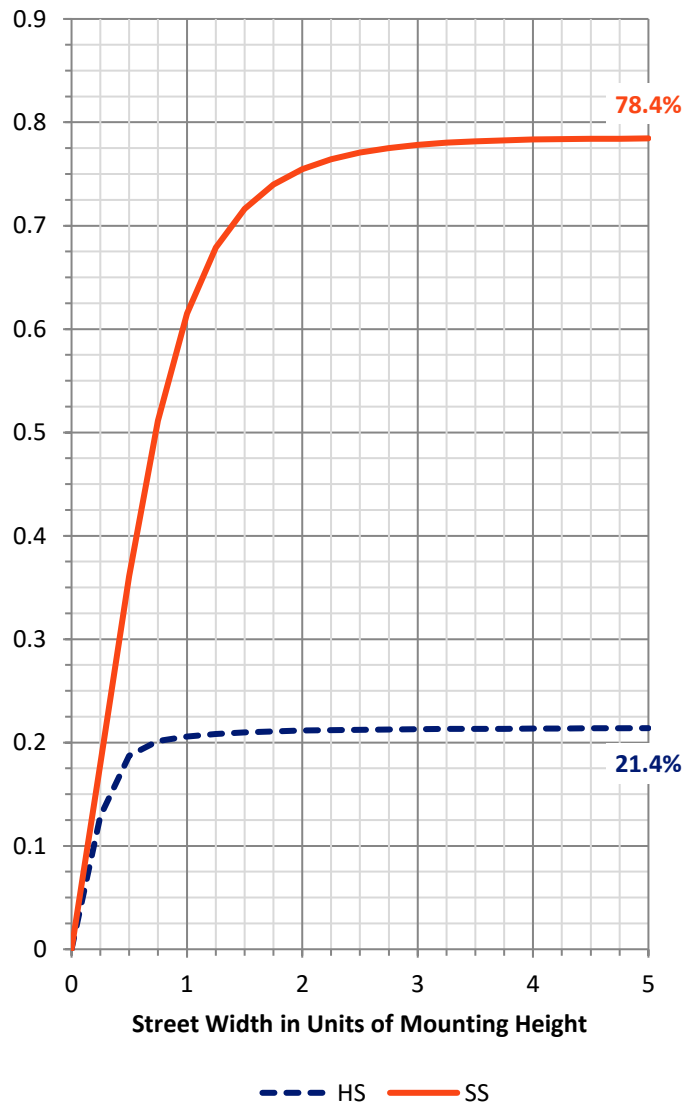
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1459.3	0.0	1459.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5277.7	0.0	5277.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	6737.0	0.0	6737.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	1.7
10°-20°	352.4	5.2
20°-30°	609.5	9.0
30°-40°	895.1	13.3
40°-50°	1163.4	17.3
50°-60°	1348.9	20.0
60°-70°	1357.6	20.2
70°-80°	827.3	12.3
80°-90°	65.9	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°	6737.0	100.0
0°-180°	6737.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507584

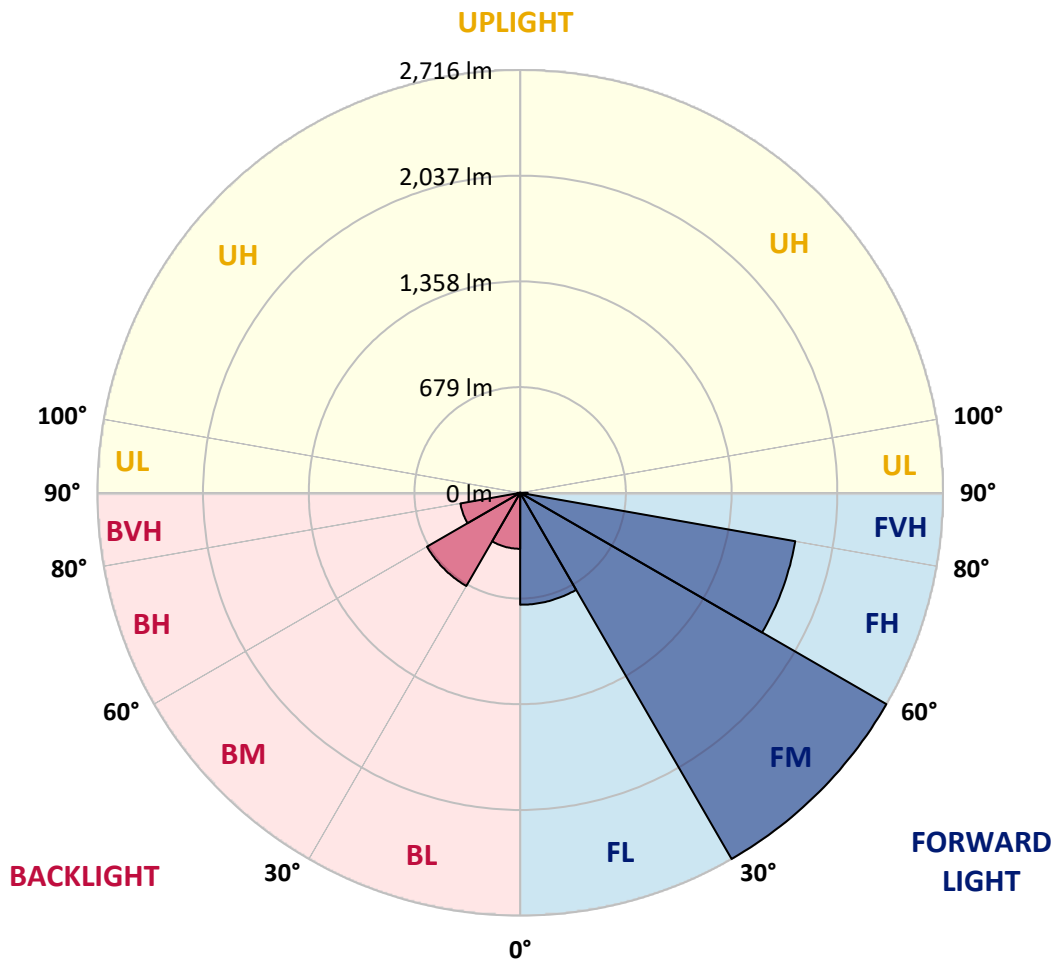
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.1	10.7			
FM (30°-60°)	2716.2	40.3			
FH (60°-80°)	1794.6	26.6			G1/1800
FVH (80°-90°)	47.9	0.7			G1/100
BL (0°-30°)	359.7	5.3	B1/500		
BM (30°-60°)	691.2	10.3	B1/1000		
BH (60°-80°)	390.2	5.8	B1/500		G1/500
BVH (80°-90°)	18.0	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





REPORT NUMBER: P507584

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1306.1	1306.1	1304.0	1302.0	1293.8	1285.5	1273.2	1262.9	1252.6	1248.5	1232.1
5°	1382.2	1382.2	1380.2	1371.9	1361.6	1347.2	1326.7	1299.9	1281.4	1279.4	1250.6
7.5°	1446.0	1443.9	1441.9	1437.7	1427.5	1408.9	1378.1	1343.1	1312.3	1304.0	1269.1
10°	1507.7	1509.7	1505.6	1495.3	1483.0	1460.4	1429.5	1388.4	1351.4	1339.0	1285.5
12.5°	1573.5	1571.4	1565.3	1552.9	1536.5	1518.0	1485.1	1443.9	1394.6	1382.2	1312.3
15°	1629.0	1631.1	1620.8	1612.6	1596.1	1575.6	1546.8	1505.6	1456.3	1441.9	1351.4
17.5°	1678.4	1678.4	1676.3	1672.2	1659.9	1645.5	1616.7	1587.9	1536.5	1513.8	1411.0
20°	1715.4	1717.5	1721.6	1729.8	1731.9	1719.5	1705.1	1684.6	1635.2	1612.6	1485.1
22.5°	1748.3	1752.4	1768.9	1793.6	1814.2	1814.2	1812.1	1810.0	1760.7	1746.3	1594.1
25°	1756.6	1762.7	1799.8	1853.2	1886.1	1912.9	1949.9	1964.3	1927.3	1902.6	1736.0
27.5°	1768.9	1775.1	1816.2	1880.0	1962.2	2021.9	2087.7	2124.7	2098.0	2073.3	1898.5
30°	1758.6	1766.8	1812.1	1902.6	2011.6	2137.1	2219.4	2274.9	2266.7	2252.3	2067.1
32.5°	1731.9	1740.1	1793.6	1904.7	2071.3	2254.3	2346.9	2433.3	2455.9	2443.6	2244.0
35°	1678.4	1686.6	1752.4	1888.2	2100.1	2342.8	2474.4	2601.9	2653.3	2645.1	2437.4
37.5°	1610.5	1610.5	1688.7	1838.8	2110.3	2410.6	2587.5	2770.6	2871.4	2859.0	2632.8
40°	1497.4	1518.0	1614.6	1785.4	2093.9	2460.0	2696.5	2945.4	3070.9	3064.7	2844.6
42.5°	1384.3	1400.7	1493.3	1692.8	2054.8	2488.8	2787.0	3128.5	3291.0	3286.9	3048.3
45°	1283.5	1295.8	1371.9	1565.3	1972.5	2497.0	2873.4	3323.9	3533.7	3525.5	3256.0
47.5°	1153.9	1178.6	1275.3	1446.0	1859.4	2472.3	2953.7	3568.7	3797.0	3788.7	3480.2
50°	874.2	890.6	1092.2	1349.3	1713.4	2410.6	3019.5	3809.3	4045.8	4029.4	3683.8
52.5°	793.9	804.2	868.0	1230.0	1577.6	2299.6	3060.6	4097.3	4298.8	4272.1	3893.6
55°	742.5	750.8	787.8	985.2	1458.3	2112.4	3072.9	4368.8	4502.5	4475.7	4087.0
57.5°	697.3	701.4	738.4	839.2	1316.4	1875.9	3029.8	4570.3	4681.4	4652.6	4253.6
60°	650.0	656.1	691.1	765.2	1145.7	1657.8	2896.1	4730.8	4829.5	4804.8	4399.6
62.5°	610.9	619.1	641.7	705.5	1022.3	1472.7	2604.0	4767.8	4936.5	4918.0	4535.4
65°	563.6	569.8	598.5	652.0	894.7	1357.5	2307.8	4658.8	4901.5	4924.1	4611.5
67.5°	508.0	514.2	538.9	580.0	750.8	1236.2	2048.6	4504.5	4794.5	4825.4	4555.9
70°	440.2	444.3	469.0	508.0	623.2	1077.8	1777.1	4278.3	4535.4	4558.0	4335.9
72.5°	366.1	366.1	384.6	429.9	512.2	892.7	1425.4	3801.1	4218.6	4274.2	3963.6
75°	154.3	162.5	195.4	236.5	327.0	652.0	975.0	2926.9	3805.2	3852.5	3500.8
77.5°	30.9	32.9	37.0	55.5	86.4	283.8	302.4	1277.3	2641.0	2671.9	2556.7
80°	24.7	24.7	26.7	41.1	57.6	131.6	98.7	417.5	822.7	1059.3	1365.8
82.5°	8.2	10.3	14.4	22.6	28.8	28.8	32.9	209.8	407.3	438.1	551.2
85°	4.1	4.1	6.2	8.2	8.2	8.2	8.2	37.0	69.9	84.3	117.2
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	2.1	4.1	6.2	6.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507584  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1223.8	1217.7	1203.3	1193.0	1178.6	1166.2	1151.8	1143.6	1139.5	1137.4	1133.3
5°	1234.1	1217.7	1188.9	1158.0	1131.3	1110.7	1081.9	1067.5	1059.3	1055.2	1053.1
7.5°	1246.5	1225.9	1176.5	1129.2	1081.9	1046.9	1012.0	989.3	979.1	977.0	975.0
10°	1254.7	1221.8	1156.0	1104.5	1042.8	987.3	946.2	919.4	905.0	903.0	900.9
12.5°	1271.1	1227.9	1139.5	1065.5	1001.7	929.7	886.5	855.7	841.3	828.9	828.9
15°	1297.9	1242.3	1131.3	1032.5	948.2	878.3	822.7	789.8	779.6	763.1	759.0
17.5°	1343.1	1269.1	1125.1	999.6	898.8	828.9	763.1	728.1	722.0	707.6	699.3
20°	1398.7	1308.2	1129.2	968.8	847.4	767.2	701.4	666.4	645.9	633.5	629.4
22.5°	1487.1	1365.8	1143.6	946.2	802.2	711.7	641.7	586.2	541.0	524.5	524.5
25°	1612.6	1464.5	1168.3	927.6	756.9	658.2	571.8	477.2	417.5	394.9	388.7
27.5°	1754.5	1590.0	1225.9	911.2	719.9	598.5	471.0	366.1	302.4	281.8	281.8
30°	1917.0	1721.6	1295.8	900.9	674.7	508.0	355.8	267.4	216.0	193.3	191.3
32.5°	2077.4	1857.3	1378.1	892.7	627.3	397.0	257.1	195.4	152.2	135.8	137.8
35°	2237.9	1991.0	1448.0	892.7	549.2	285.9	183.1	135.8	109.0	100.8	100.8
37.5°	2418.9	2141.2	1503.6	880.3	431.9	203.6	125.5	98.7	90.5	86.4	86.4
40°	2606.0	2281.1	1540.6	853.6	308.5	139.9	88.4	86.4	82.3	76.1	74.0
42.5°	2780.9	2441.5	1563.2	802.2	201.6	92.6	78.2	80.2	78.2	67.9	65.8
45°	2966.0	2571.1	1575.6	699.3	133.7	76.1	69.9	74.0	76.1	67.9	65.8
47.5°	3151.1	2713.0	1583.8	545.1	88.4	74.0	65.8	72.0	74.0	65.8	63.8
50°	3346.5	2842.6	1571.4	349.7	78.2	69.9	63.8	65.8	69.9	65.8	63.8
52.5°	3517.2	2959.8	1513.8	195.4	76.1	67.9	59.6	61.7	67.9	63.8	63.8
55°	3692.1	3075.0	1406.9	115.2	74.0	63.8	59.6	61.7	63.8	59.6	61.7
57.5°	3850.4	3186.1	1246.5	94.6	74.0	61.7	61.7	57.6	57.6	53.5	53.5
60°	3971.8	3286.9	1055.2	88.4	69.9	63.8	57.6	53.5	49.4	45.3	45.3
62.5°	4068.5	3373.3	783.7	82.3	67.9	61.7	53.5	47.3	41.1	37.0	37.0
65°	4121.9	3391.8	553.3	74.0	63.8	59.6	49.4	41.1	32.9	30.9	30.9
67.5°	4060.2	3295.1	337.3	69.9	59.6	57.6	47.3	37.0	28.8	26.7	26.7
70°	3823.7	3035.9	189.2	63.8	53.5	51.4	43.2	32.9	26.7	22.6	22.6
72.5°	3432.9	2655.4	94.6	53.5	45.3	45.3	39.1	28.8	24.7	20.6	20.6
75°	2900.2	2178.2	67.9	39.1	37.0	37.0	32.9	26.7	22.6	18.5	18.5
77.5°	2124.7	1435.7	55.5	32.9	26.7	26.7	28.8	24.7	20.6	16.5	16.5
80°	1100.4	711.7	47.3	24.7	22.6	20.6	20.6	20.6	16.5	14.4	14.4
82.5°	487.5	273.6	30.9	18.5	18.5	16.5	16.5	16.5	14.4	12.3	12.3
85°	94.6	51.4	16.5	14.4	12.3	12.3	12.3	10.3	10.3	10.3	10.3
87.5°	8.2	8.2	8.2	8.2	8.2	6.2	6.2	6.2	6.2	6.2	6.2
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)