

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: P507700

Luminaire Tested: **VERD-S-CA1-70-750-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507700
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-CA1-70-750-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1330mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8972 lumens
Efficiency: N/A
Efficacy: 122.1 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

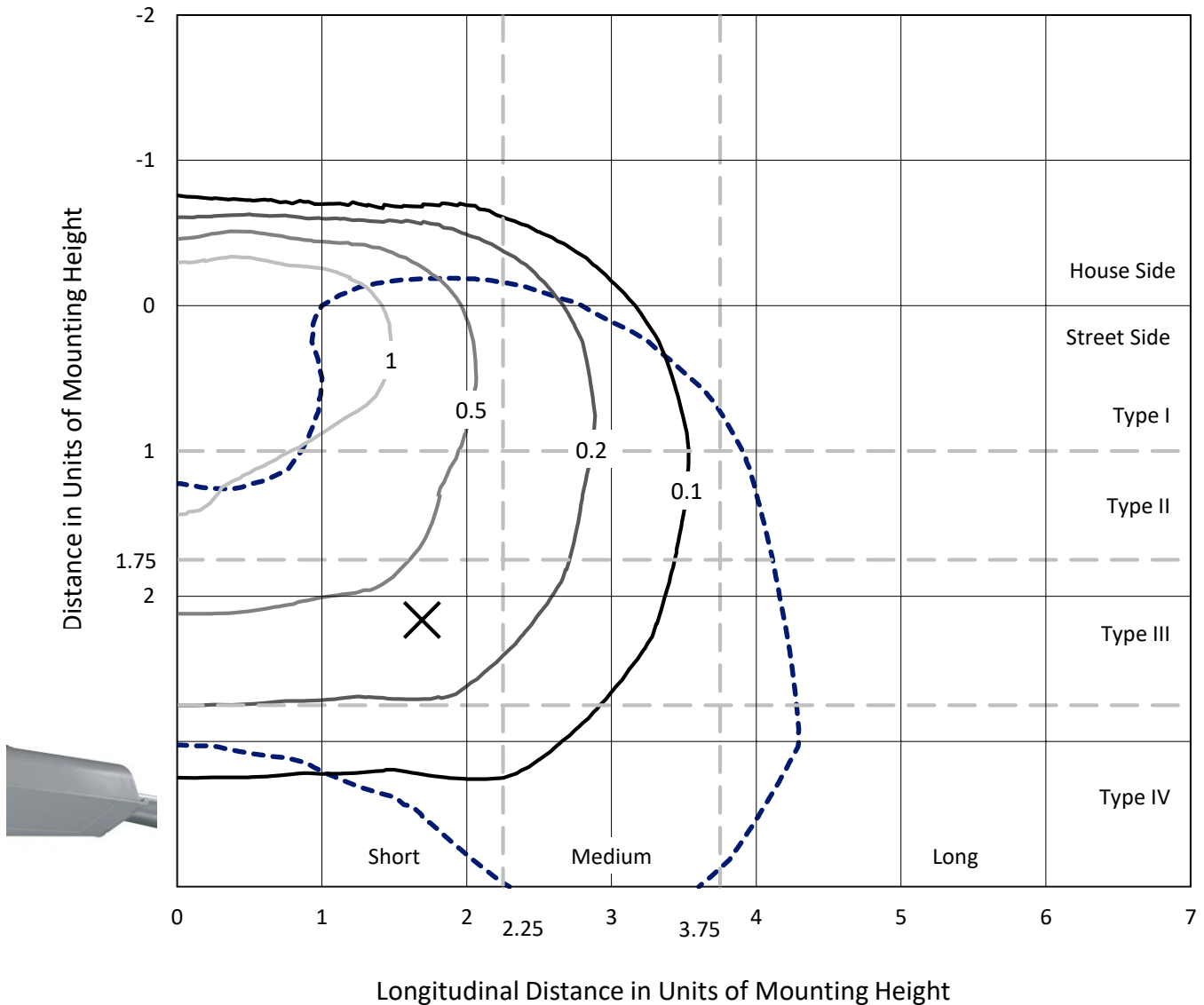
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

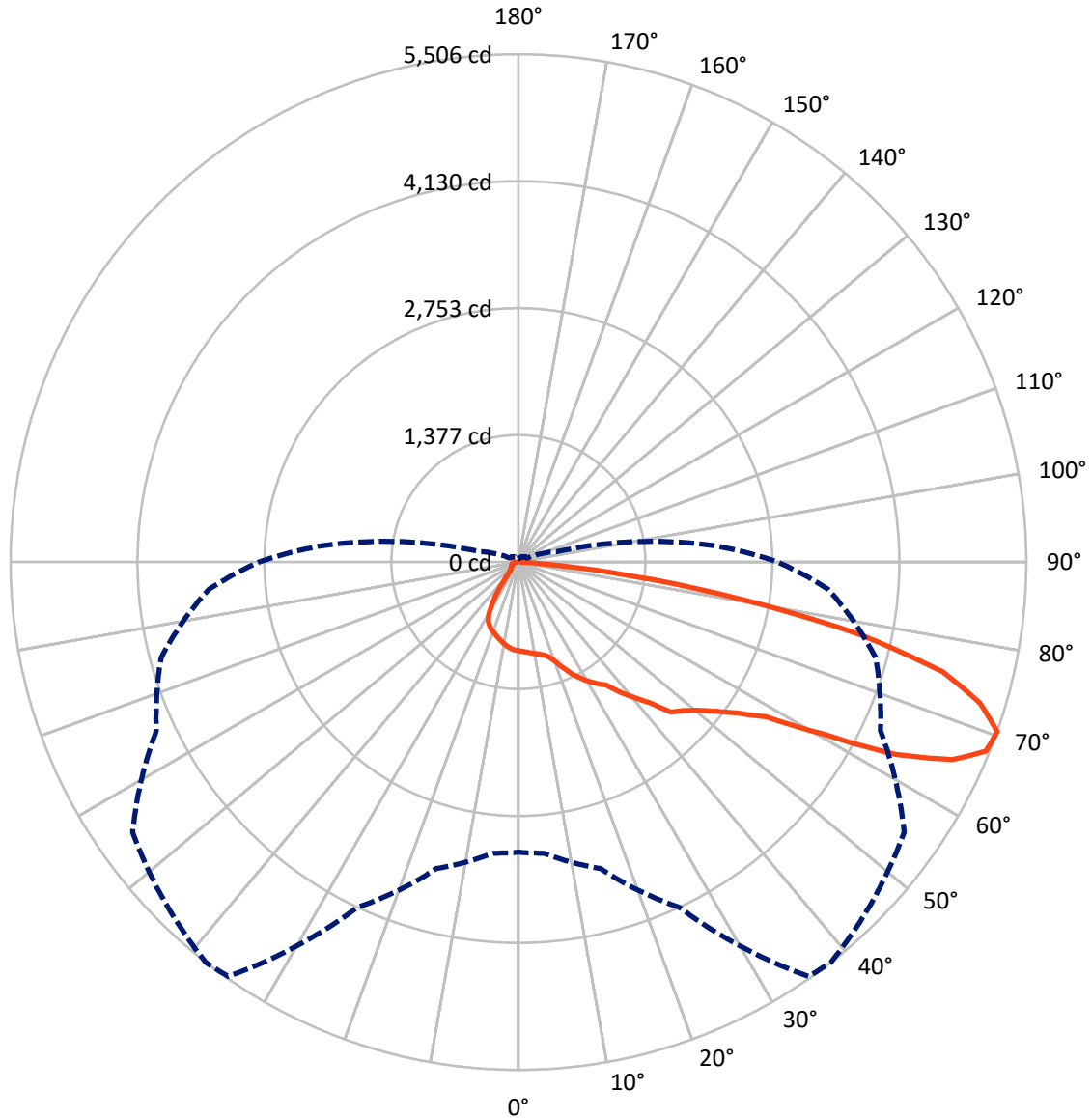
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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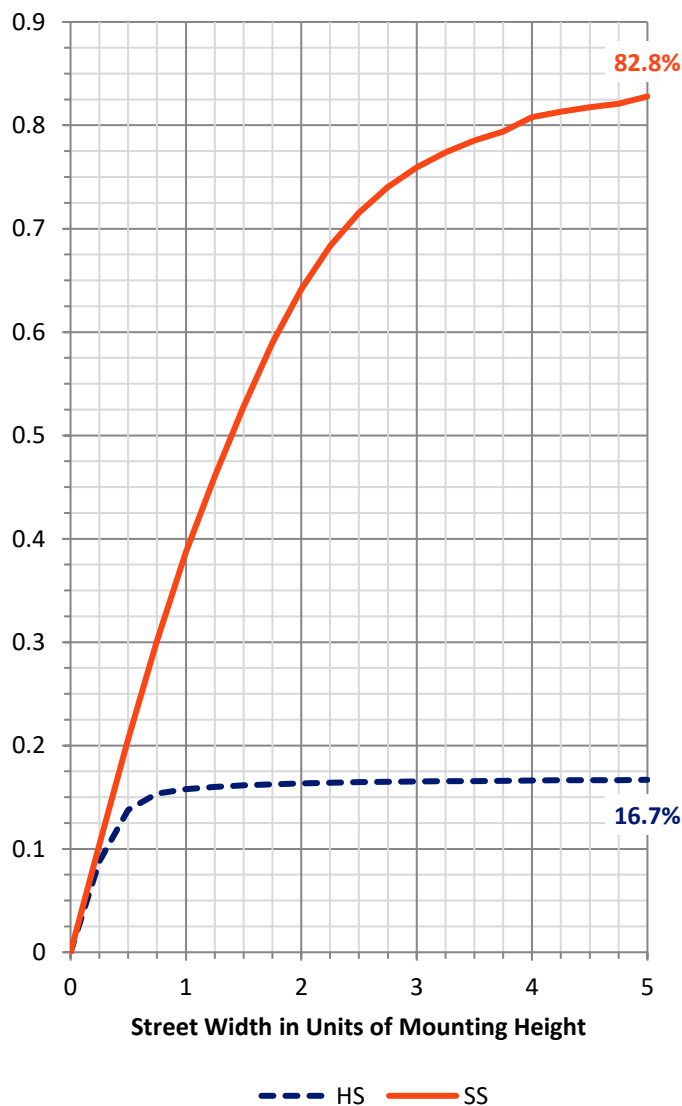
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1517.9	0.0	1517.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7454.1	0.0	7454.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	8972.0	0.0	8972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.0
10°-20°	278.6	3.1
20°-30°	513.0	5.7
30°-40°	803.0	9.0
40°-50°	1220.0	13.6
50°-60°	1754.1	19.6
60°-70°	2356.6	26.3
70°-80°	1746.0	19.5
80°-90°	208.8	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°	8972.0	100.0
0°-180°	8972.0	100.0

Coefficient of Utilization



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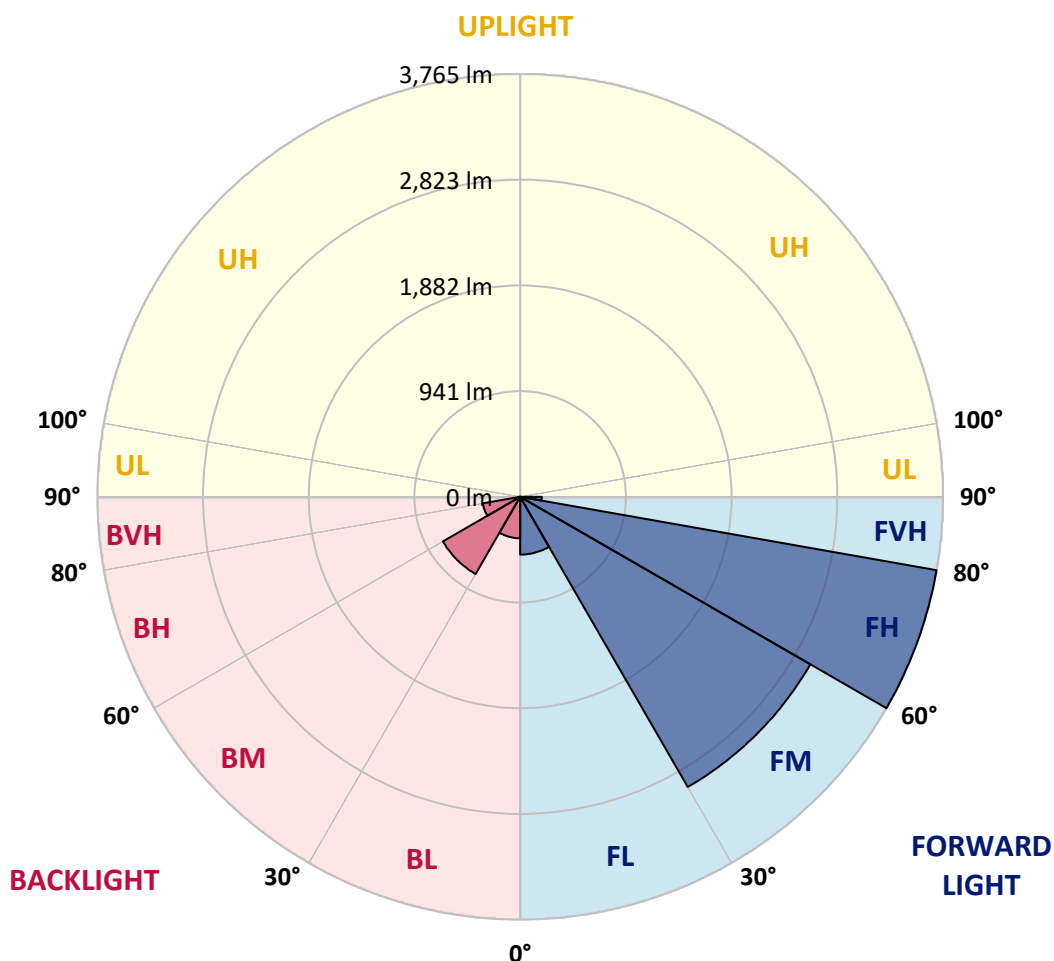
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.4	5.7			
FM (30°-60°)	2983.1	33.2			
FH (60°-80°)	3764.6	42.0			G2/5000
FVH (80°-90°)	192.1	2.1			G2/225
BL (0°-30°)	369.2	4.1	B1/500		
BM (30°-60°)	794.0	8.8	B1/1000		
BH (60°-80°)	337.9	3.8	B1/500		G1/500
BVH (80°-90°)	16.7	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°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	975.8	975.8	975.8	973.0	973.0	970.2	970.2	967.3	967.3	964.5	961.7
5°	990.0	990.0	987.2	984.4	981.5	981.5	981.5	978.7	973.0	973.0	967.3
7.5°	995.7	995.7	995.7	995.7	995.7	995.7	995.7	992.9	990.0	987.2	981.5
10°	998.5	998.5	1001.4	1001.4	1007.1	1009.9	1009.9	1012.7	1009.9	1004.2	998.5
12.5°	1007.1	1009.9	1009.9	1012.7	1021.2	1024.1	1026.9	1035.4	1035.4	1029.7	1024.1
15°	1024.1	1024.1	1026.9	1032.6	1043.9	1046.8	1055.3	1063.8	1069.5	1063.8	1058.1
17.5°	1075.1	1075.1	1075.1	1075.1	1080.8	1083.6	1095.0	1109.2	1114.8	1114.8	1112.0
20°	1177.3	1177.3	1171.6	1160.2	1154.6	1154.6	1151.7	1157.4	1168.7	1177.3	1180.1
22.5°	1293.6	1290.7	1287.9	1270.9	1251.0	1245.3	1239.7	1234.0	1239.7	1253.8	1259.5
25°	1384.3	1387.2	1384.3	1361.6	1344.6	1341.8	1333.3	1336.1	1336.1	1339.0	1347.5
27.5°	1458.1	1463.8	1452.4	1441.1	1429.7	1421.2	1426.9	1435.4	1449.6	1443.9	1460.9
30°	1540.4	1537.5	1526.2	1512.0	1503.5	1500.6	1497.8	1529.0	1568.7	1585.8	1605.6
32.5°	1687.9	1685.0	1662.3	1591.4	1571.6	1571.6	1577.2	1617.0	1679.4	1733.3	1784.3
35°	1824.0	1824.0	1795.7	1747.4	1662.3	1636.8	1651.0	1699.2	1790.0	1897.8	1980.1
37.5°	1985.7	1988.6	1957.4	1883.6	1815.5	1790.0	1721.9	1790.0	1900.6	2107.7	2209.8
40°	2173.0	2167.3	2116.2	2036.8	1948.9	1929.0	1872.3	1886.4	2042.5	2354.5	2453.8
42.5°	2277.9	2272.2	2238.2	2175.8	2104.9	2082.2	2031.1	2016.9	2232.5	2626.8	2692.1
45°	2380.0	2385.7	2382.9	2351.7	2334.7	2320.5	2292.1	2294.9	2468.0	2896.3	2899.2
47.5°	2439.6	2451.0	2405.6	2402.7	2405.6	2405.6	2445.3	2524.7	2692.1	3126.1	3080.7
50°	2615.5	2604.1	2465.1	2470.8	2507.7	2524.7	2598.5	2714.8	3004.1	3324.7	3236.7
52.5°	2970.1	2890.7	2714.8	2629.7	2643.9	2686.4	2774.4	2941.7	3316.2	3520.4	3375.7
55°	3367.2	3333.2	3151.6	2933.2	2836.8	2890.7	2984.3	3160.2	3563.0	3687.8	3492.1
57.5°	3642.4	3656.6	3662.3	3486.4	3148.8	3165.8	3225.4	3378.6	3784.2	3858.0	3580.0
60°	3909.1	3928.9	4036.7	4011.2	3900.6	3775.7	3543.1	3594.2	3974.3	3980.0	3648.1
62.5°	4121.8	4133.2	4306.2	4385.6	4584.2	4592.7	4215.4	3892.0	4167.2	4067.9	3673.6
65°	4014.0	4045.2	4297.7	4538.8	5103.3	5165.7	5018.2	4272.2	4314.7	4107.6	3656.6
67.5°	3650.9	3702.0	3940.3	4493.4	5426.7	5469.3	5338.8	4961.5	4368.6	4093.5	3563.0
70°	3146.0	3168.7	3441.0	4130.3	5486.3	5506.2	5344.5	5106.2	4331.7	4011.2	3367.2
72.5°	2558.8	2584.3	2819.7	3551.6	5216.8	5233.8	5191.3	4992.7	4243.8	3858.0	2970.1
75°	1920.5	1960.2	2184.3	2774.4	4606.9	4751.6	4839.5	4754.4	3999.8	3350.2	2260.9
77.5°	1268.0	1270.9	1497.8	2096.4	3650.9	3795.6	3809.8	3738.9	2839.6	2102.0	1004.2
80°	544.7	595.7	876.6	1407.0	2425.4	2451.0	2479.3	2292.1	1455.3	649.6	110.6
82.5°	181.6	201.4	368.8	743.2	1194.3	1222.6	1171.6	1015.6	408.5	87.9	62.4
85°	76.6	85.1	113.5	204.2	289.3	263.8	246.8	201.4	56.7	51.1	39.7
87.5°	2.8	2.8	2.8	2.8	5.7	2.8	5.7	5.7	8.5	8.5	11.3
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°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	961.7	961.7	961.7	958.8	958.8	956.0	956.0	953.2	953.2	953.2	953.2
5°	967.3	967.3	961.7	958.8	953.2	947.5	941.8	936.1	930.5	930.5	930.5
7.5°	978.7	975.8	967.3	956.0	944.6	930.5	921.9	910.6	904.9	899.3	902.1
10°	995.7	990.0	978.7	961.7	939.0	916.3	896.4	879.4	870.9	862.4	859.5
12.5°	1018.4	1012.7	995.7	970.2	936.1	902.1	870.9	845.4	828.3	819.8	817.0
15°	1052.4	1043.9	1021.2	984.4	936.1	885.1	842.5	805.6	777.3	760.3	760.3
17.5°	1106.3	1097.8	1066.6	1015.6	947.5	876.6	811.3	748.9	712.0	692.2	689.3
20°	1177.3	1165.9	1129.0	1055.3	967.3	873.7	777.3	697.8	635.4	601.4	598.6
22.5°	1259.5	1251.0	1194.3	1097.8	987.2	868.0	751.7	646.8	558.8	496.4	482.2
25°	1356.0	1341.8	1256.7	1131.9	992.9	853.9	714.9	592.9	470.9	394.3	380.1
27.5°	1469.4	1438.2	1313.4	1157.4	990.0	825.5	672.3	516.3	357.4	300.7	292.2
30°	1591.4	1537.5	1370.2	1174.4	973.0	780.1	598.6	385.8	258.1	224.1	215.6
32.5°	1730.4	1645.3	1421.2	1177.3	936.1	717.7	473.7	263.8	184.4	164.5	161.7
35°	1897.8	1781.5	1475.1	1165.9	882.2	615.6	329.1	178.7	136.2	130.5	130.5
37.5°	2116.2	1954.5	1534.7	1131.9	800.0	476.6	218.4	122.0	119.1	122.0	122.0
40°	2346.0	2153.1	1608.4	1080.8	695.0	343.2	139.0	113.5	113.5	116.3	116.3
42.5°	2564.4	2343.2	1702.1	1012.7	575.9	221.3	113.5	107.8	105.0	107.8	110.6
45°	2748.8	2521.9	1792.8	939.0	439.7	141.8	110.6	102.1	96.4	99.3	99.3
47.5°	2913.4	2658.0	1843.9	851.0	309.2	110.6	110.6	93.6	87.9	87.9	90.8
50°	3052.4	2765.8	1872.3	748.9	195.7	107.8	99.3	87.9	82.3	82.3	79.4
52.5°	3168.7	2845.3	1869.4	635.4	127.7	105.0	93.6	82.3	73.8	76.6	76.6
55°	3256.6	2907.7	1826.9	487.9	107.8	99.3	90.8	76.6	70.9	76.6	76.6
57.5°	3324.7	2936.1	1747.4	340.4	105.0	90.8	85.1	70.9	65.2	68.1	68.1
60°	3358.7	2921.9	1622.6	212.8	102.1	87.9	79.4	65.2	59.6	56.7	59.6
62.5°	3347.4	2870.8	1443.9	141.8	96.4	82.3	73.8	62.4	53.9	48.2	48.2
65°	3279.3	2757.3	1231.2	119.1	93.6	82.3	70.9	59.6	48.2	45.4	45.4
67.5°	3126.1	2521.9	913.4	110.6	93.6	79.4	68.1	56.7	48.2	42.6	42.6
70°	2811.2	2099.2	439.7	102.1	93.6	82.3	68.1	53.9	45.4	39.7	39.7
72.5°	2275.1	1483.6	113.5	87.9	90.8	82.3	70.9	53.9	42.6	36.9	36.9
75°	1483.6	712.0	96.4	70.9	82.3	76.6	68.1	53.9	42.6	34.0	34.0
77.5°	482.2	99.3	87.9	62.4	73.8	73.8	68.1	53.9	42.6	31.2	31.2
80°	76.6	70.9	76.6	48.2	53.9	62.4	53.9	51.1	39.7	28.4	28.4
82.5°	53.9	65.2	56.7	39.7	48.2	51.1	42.6	34.0	28.4	25.5	25.5
85°	39.7	42.6	34.0	31.2	36.9	42.6	34.0	25.5	22.7	22.7	22.7
87.5°	14.2	17.0	17.0	22.7	28.4	31.2	19.9	14.2	17.0	17.0	17.0
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)