

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: P507684

Luminaire Tested: **VERD-S-CA1-70-730-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507684
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-CA1-70-730-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1330mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8651 lumens
Efficiency: N/A
Efficacy: 117.7 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

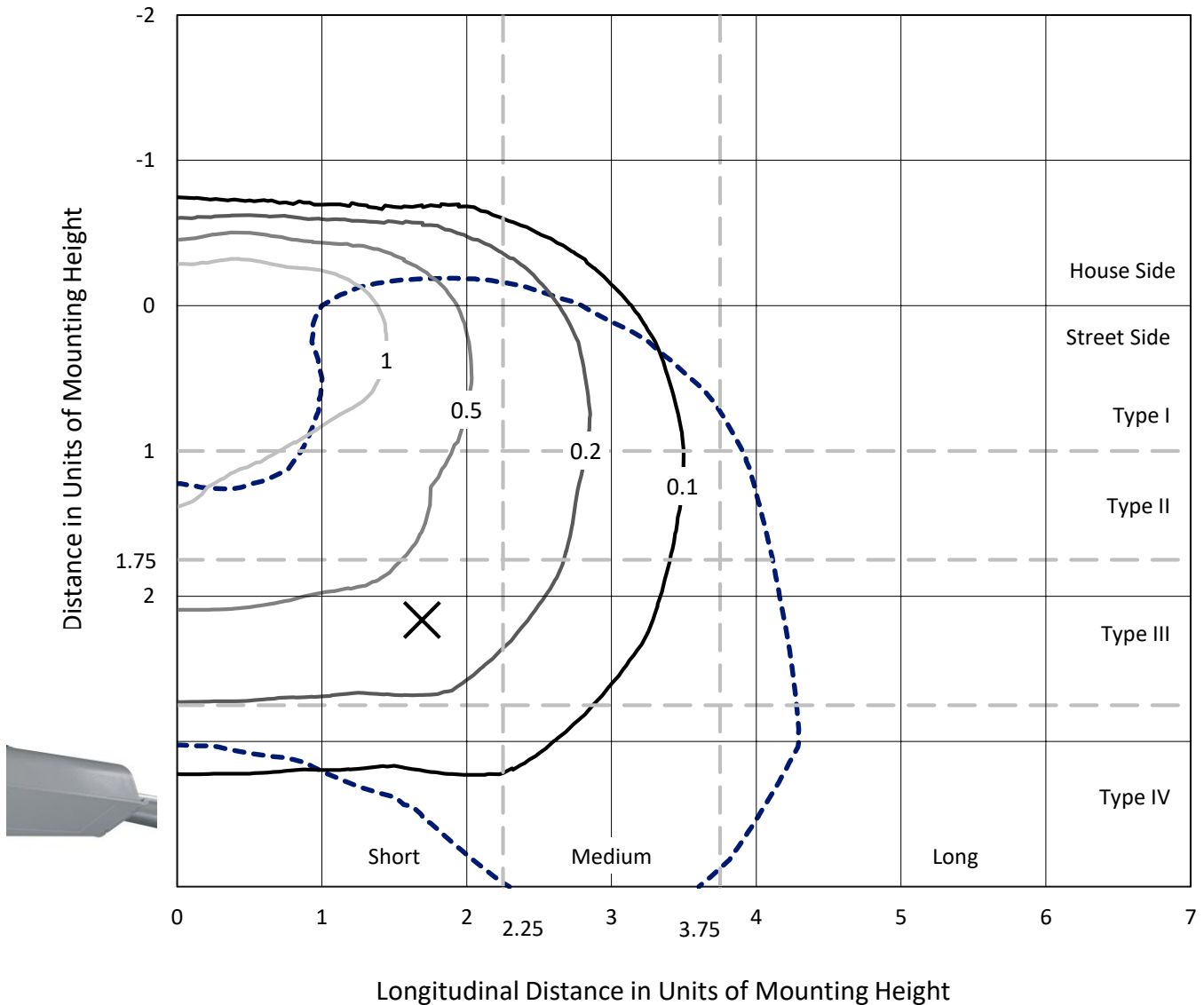
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

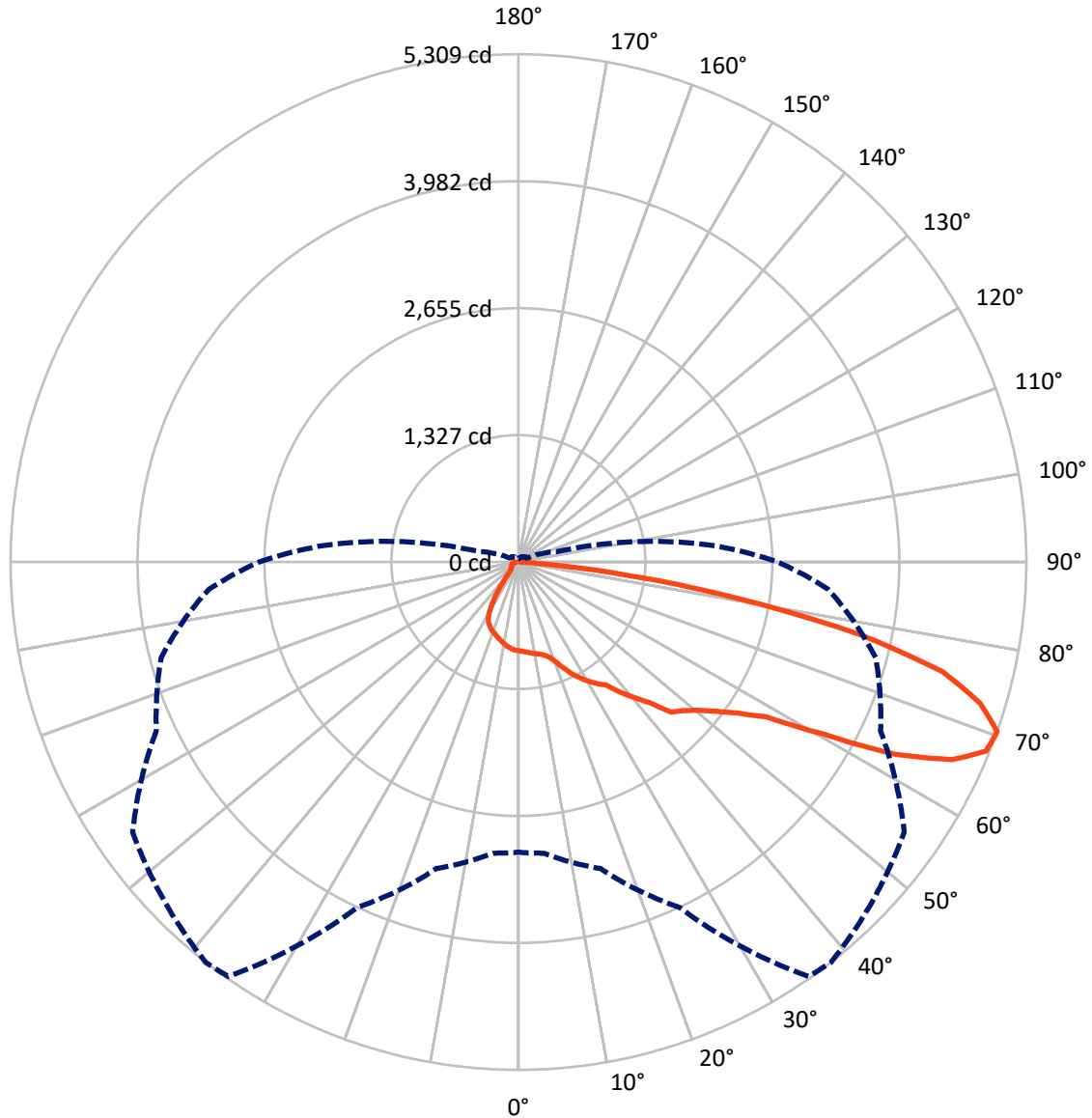
× Max cd
 - - - 1/2 Max cd



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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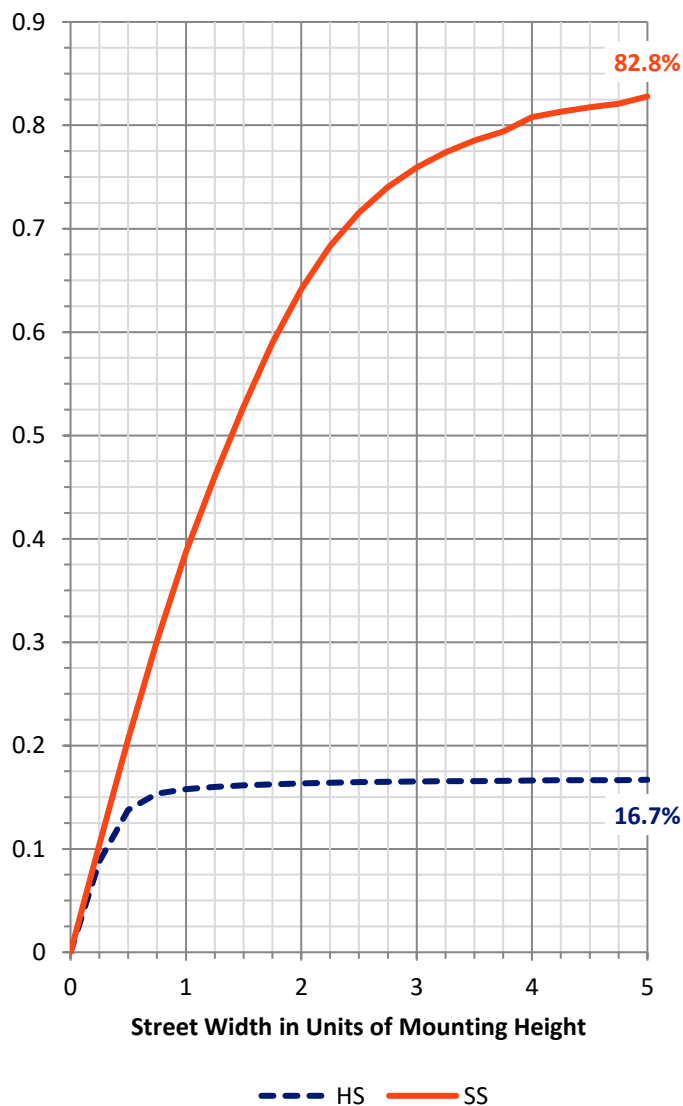
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.6	0.0	1463.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7187.5	0.0	7187.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	8651.0	0.0	8651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.0
10°-20°	268.7	3.1
20°-30°	494.6	5.7
30°-40°	774.3	9.0
40°-50°	1176.3	13.6
50°-60°	1691.4	19.6
60°-70°	2272.3	26.3
70°-80°	1683.5	19.5
80°-90°	201.3	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°	8651.0	100.0
0°-180°	8651.0	100.0

Coefficient of Utilization



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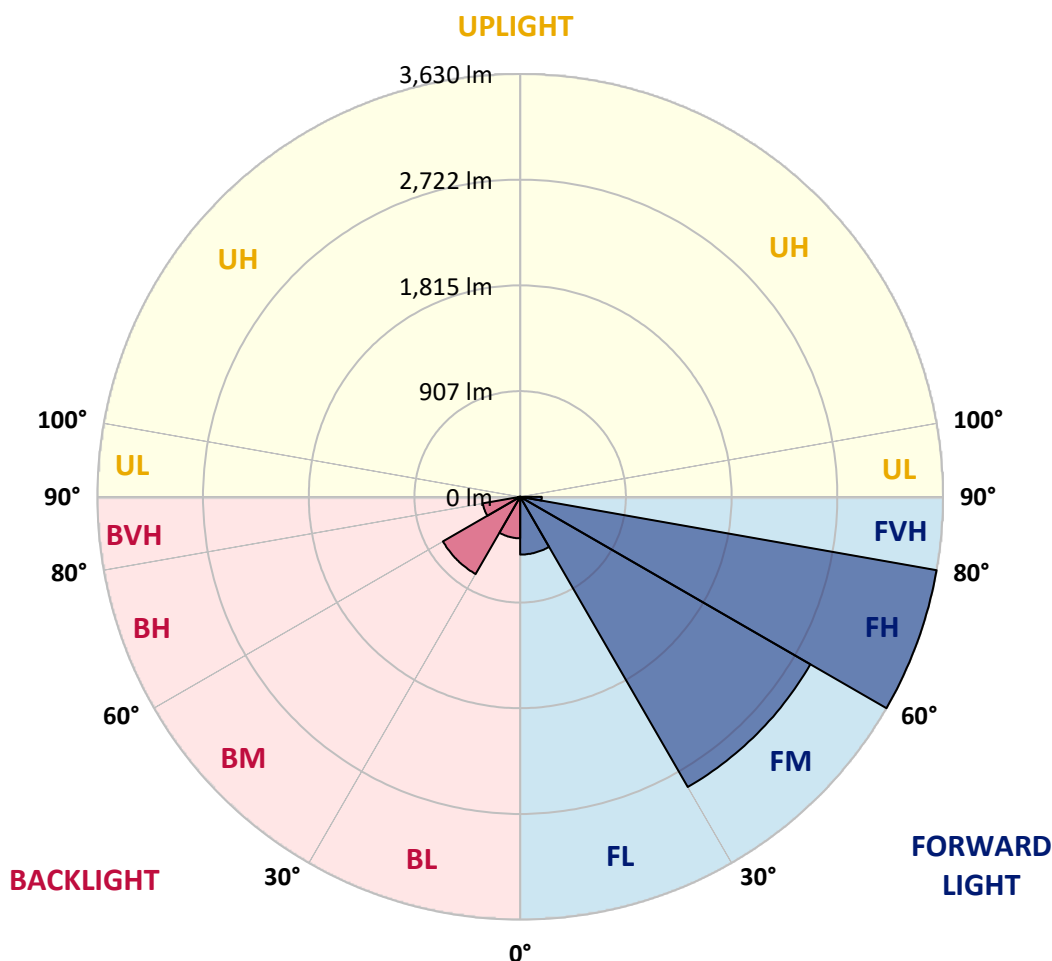
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	496.0	5.7			
FM	(30°-60°)	2876.4	33.2			
FH	(60°-80°)	3629.9	42.0			G2/5000
FVH	(80°-90°)	185.2	2.1			G2/225
BL	(0°-30°)	356.0	4.1	B1/500		
BM	(30°-60°)	765.6	8.8	B1/1000		
BH	(60°-80°)	325.9	3.8	B1/500		G1/500
BVH	(80°-90°)	16.1	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°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	940.9	940.9	940.9	938.2	938.2	935.5	935.5	932.7	932.7	930.0	927.3
5°	954.6	954.6	951.9	949.1	946.4	946.4	946.4	943.7	938.2	938.2	932.7
7.5°	960.1	960.1	960.1	960.1	960.1	960.1	960.1	957.3	954.6	951.9	946.4
10°	962.8	962.8	965.6	965.6	971.0	973.8	973.8	976.5	973.8	968.3	962.8
12.5°	971.0	973.8	973.8	976.5	984.7	987.4	990.2	998.4	998.4	992.9	987.4
15°	987.4	987.4	990.2	995.6	1006.6	1009.3	1017.5	1025.7	1031.2	1025.7	1020.3
17.5°	1036.7	1036.7	1036.7	1036.7	1042.1	1044.9	1055.8	1069.5	1075.0	1075.0	1072.2
20°	1135.1	1135.1	1129.7	1118.7	1113.3	1113.3	1110.5	1116.0	1126.9	1135.1	1137.9
22.5°	1247.3	1244.5	1241.8	1225.4	1206.3	1200.8	1195.3	1189.8	1195.3	1209.0	1214.5
25°	1334.8	1337.5	1334.8	1312.9	1296.5	1293.8	1285.6	1288.3	1288.3	1291.0	1299.3
27.5°	1405.9	1411.4	1400.5	1389.5	1378.6	1370.4	1375.8	1384.0	1397.7	1392.3	1408.7
30°	1485.3	1482.5	1471.6	1457.9	1449.7	1447.0	1444.2	1474.3	1512.6	1529.0	1548.2
32.5°	1627.5	1624.8	1602.9	1534.5	1515.3	1515.3	1520.8	1559.1	1619.3	1671.3	1720.5
35°	1758.8	1758.8	1731.4	1684.9	1602.9	1578.3	1591.9	1638.4	1726.0	1829.9	1909.2
37.5°	1914.7	1917.4	1887.3	1816.2	1750.6	1726.0	1660.3	1726.0	1832.6	2032.3	2130.8
40°	2095.2	2089.7	2040.5	1963.9	1879.1	1860.0	1805.3	1819.0	1969.4	2270.3	2366.0
42.5°	2196.4	2191.0	2158.1	2098.0	2029.6	2007.7	1958.5	1944.8	2152.7	2532.9	2595.8
45°	2294.9	2300.4	2297.6	2267.5	2251.1	2237.5	2210.1	2212.8	2379.7	2792.7	2795.4
47.5°	2352.3	2363.3	2319.5	2316.8	2319.5	2319.5	2357.8	2434.4	2595.8	3014.3	2970.5
50°	2521.9	2511.0	2377.0	2382.4	2418.0	2434.4	2505.5	2617.7	2896.7	3205.7	3120.9
52.5°	2863.8	2787.2	2617.7	2535.6	2549.3	2590.3	2675.1	2836.5	3197.5	3394.5	3255.0
55°	3246.8	3213.9	3038.9	2828.3	2735.3	2787.2	2877.5	3047.1	3435.5	3555.9	3367.1
57.5°	3512.1	3525.8	3531.2	3361.6	3036.2	3052.6	3110.0	3257.7	3648.9	3720.0	3451.9
60°	3769.2	3788.4	3892.3	3867.7	3761.0	3640.6	3416.4	3465.6	3832.1	3837.6	3517.6
62.5°	3974.3	3985.3	4152.1	4228.7	4420.2	4428.4	4064.6	3752.8	4018.1	3922.4	3542.2
65°	3870.4	3900.5	4143.9	4376.4	4920.8	4980.9	4838.7	4119.3	4160.3	3960.7	3525.8
67.5°	3520.3	3569.5	3799.3	4332.7	5232.6	5273.6	5147.8	4784.0	4212.3	3947.0	3435.5
70°	3033.4	3055.3	3317.9	3982.6	5290.0	5309.2	5153.3	4923.5	4176.8	3867.7	3246.8
72.5°	2467.2	2491.8	2718.9	3424.6	5030.2	5046.6	5005.5	4814.1	4092.0	3720.0	2863.8
75°	1851.8	1890.1	2106.2	2675.1	4442.1	4581.6	4666.4	4584.3	3856.7	3230.4	2180.0
77.5°	1222.7	1225.4	1444.2	2021.4	3520.3	3659.8	3673.5	3605.1	2738.0	2026.8	968.3
80°	525.2	574.4	845.2	1356.7	2338.7	2363.3	2390.6	2210.1	1403.2	626.4	106.7
82.5°	175.1	194.2	355.6	716.6	1151.5	1178.9	1129.7	979.2	393.9	84.8	60.2
85°	73.9	82.1	109.4	196.9	279.0	254.4	238.0	194.2	54.7	49.2	38.3
87.5°	2.7	2.7	2.7	2.7	5.5	2.7	5.5	5.5	8.2	8.2	10.9
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°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	927.3	927.3	927.3	924.5	924.5	921.8	921.8	919.1	919.1	919.1	919.1
5°	932.7	932.7	927.3	924.5	919.1	913.6	908.1	902.6	897.2	897.2	897.2
7.5°	943.7	940.9	932.7	921.8	910.8	897.2	889.0	878.0	872.6	867.1	869.8
10°	960.1	954.6	943.7	927.3	905.4	883.5	864.3	847.9	839.7	831.5	828.8
12.5°	982.0	976.5	960.1	935.5	902.6	869.8	839.7	815.1	798.7	790.5	787.8
15°	1014.8	1006.6	984.7	949.1	902.6	853.4	812.4	776.8	749.5	733.1	733.1
17.5°	1066.8	1058.5	1028.5	979.2	913.6	845.2	782.3	722.1	686.6	667.4	664.7
20°	1135.1	1124.2	1088.6	1017.5	932.7	842.5	749.5	672.9	612.7	579.9	577.1
22.5°	1214.5	1206.3	1151.5	1058.5	951.9	837.0	724.8	623.6	538.8	478.7	465.0
25°	1307.5	1293.8	1211.7	1091.4	957.3	823.3	689.3	571.7	454.1	380.2	366.5
27.5°	1416.9	1386.8	1266.4	1116.0	954.6	796.0	648.3	497.8	344.6	289.9	281.7
30°	1534.5	1482.5	1321.1	1132.4	938.2	752.2	577.1	372.0	248.9	216.1	207.9
32.5°	1668.5	1586.5	1370.4	1135.1	902.6	692.0	456.8	254.4	177.8	158.6	155.9
35°	1829.9	1717.8	1422.3	1124.2	850.7	593.6	317.3	172.3	131.3	125.8	125.8
37.5°	2040.5	1884.6	1479.8	1091.4	771.3	459.5	210.6	117.6	114.9	117.6	117.6
40°	2262.1	2076.1	1550.9	1042.1	670.1	331.0	134.0	109.4	109.4	112.1	112.1
42.5°	2472.7	2259.3	1641.2	976.5	555.3	213.4	109.4	103.9	101.2	103.9	106.7
45°	2650.5	2431.7	1728.7	905.4	424.0	136.8	106.7	98.5	93.0	95.7	95.7
47.5°	2809.1	2562.9	1777.9	820.6	298.1	106.7	106.7	90.3	84.8	84.8	87.5
50°	2943.2	2666.9	1805.3	722.1	188.7	103.9	95.7	84.8	79.3	79.3	76.6
52.5°	3055.3	2743.5	1802.5	612.7	123.1	101.2	90.3	79.3	71.1	73.9	73.9
55°	3140.1	2803.7	1761.5	470.5	103.9	95.7	87.5	73.9	68.4	73.9	73.9
57.5°	3205.7	2831.0	1684.9	328.2	101.2	87.5	82.1	68.4	62.9	65.6	65.6
60°	3238.6	2817.3	1564.6	205.1	98.5	84.8	76.6	62.9	57.4	54.7	57.4
62.5°	3227.6	2768.1	1392.3	136.8	93.0	79.3	71.1	60.2	52.0	46.5	46.5
65°	3162.0	2658.7	1187.1	114.9	90.3	79.3	68.4	57.4	46.5	43.8	43.8
67.5°	3014.3	2431.7	880.8	106.7	90.3	76.6	65.6	54.7	46.5	41.0	41.0
70°	2710.7	2024.1	424.0	98.5	90.3	79.3	65.6	52.0	43.8	38.3	38.3
72.5°	2193.7	1430.5	109.4	84.8	87.5	79.3	68.4	52.0	41.0	35.6	35.6
75°	1430.5	686.6	93.0	68.4	79.3	73.9	65.6	52.0	41.0	32.8	32.8
77.5°	465.0	95.7	84.8	60.2	71.1	71.1	65.6	52.0	41.0	30.1	30.1
80°	73.9	68.4	73.9	46.5	52.0	60.2	52.0	49.2	38.3	27.4	27.4
82.5°	52.0	62.9	54.7	38.3	46.5	49.2	41.0	32.8	27.4	24.6	24.6
85°	38.3	41.0	32.8	30.1	35.6	41.0	32.8	24.6	21.9	21.9	21.9
87.5°	13.7	16.4	16.4	21.9	27.4	30.1	19.1	13.7	16.4	16.4	16.4
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)