

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: P509280

Luminaire Tested: **VERD-CA2-60-750-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-750-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 850mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8514 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

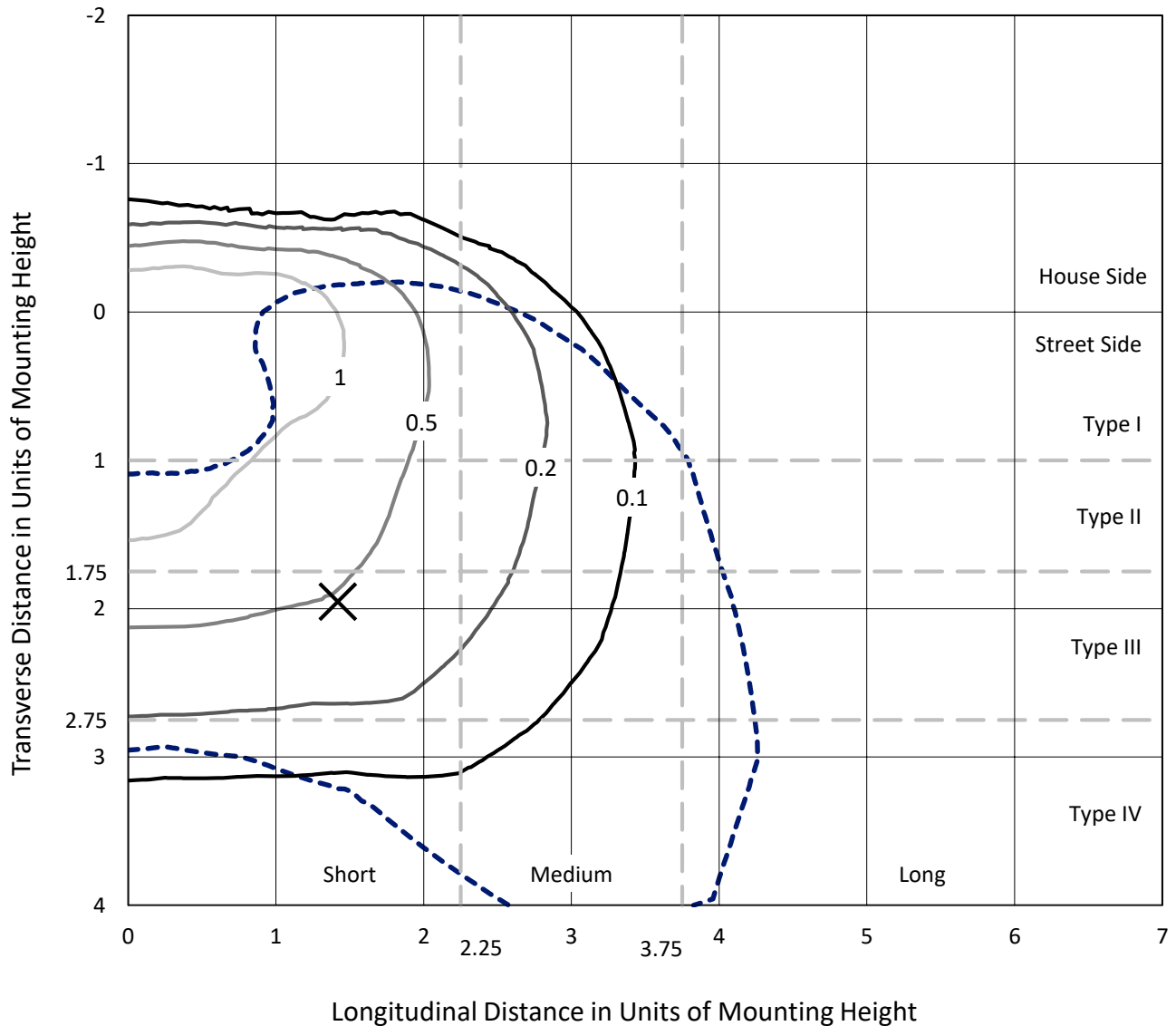
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

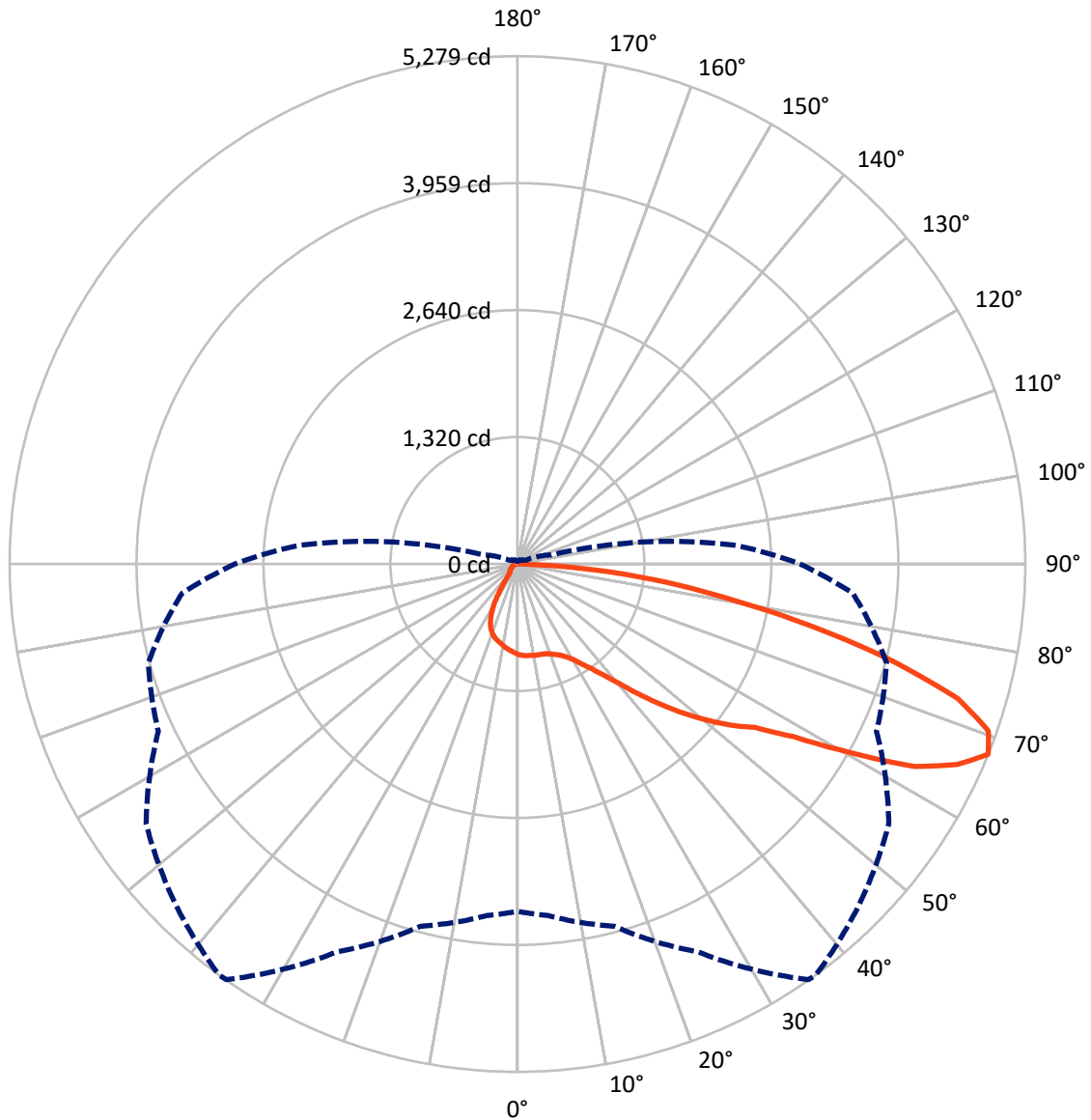
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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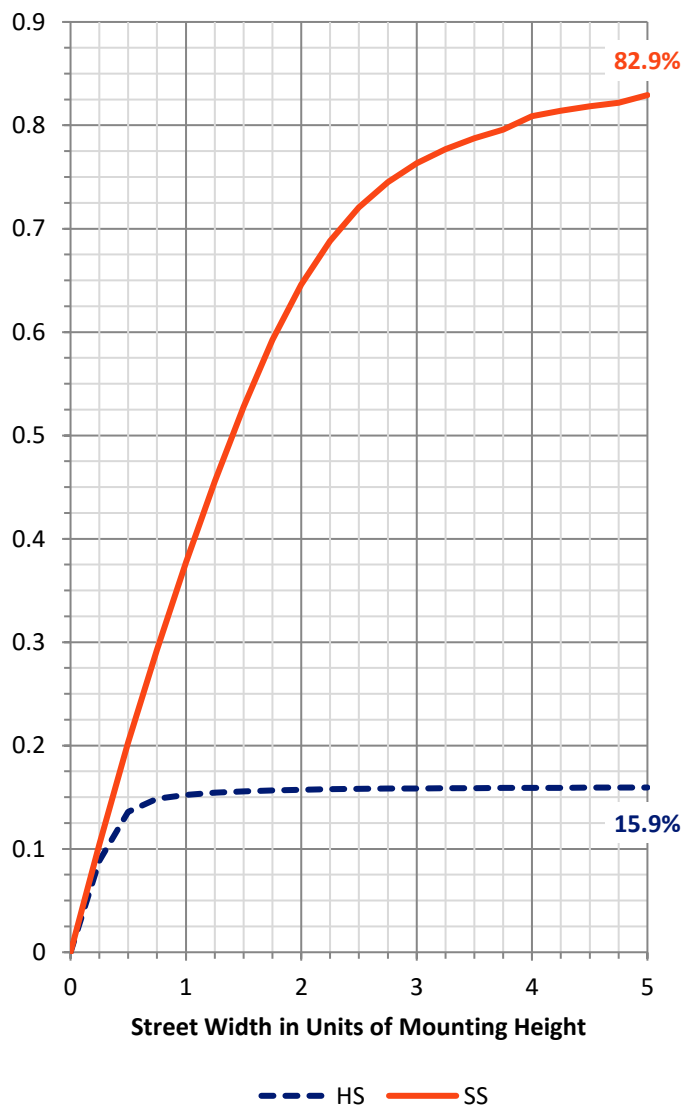
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.0	0.0	1373.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	7141.0	0.0	7141.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	8514.0	0.0	8514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.0
10°-20°	263.1	3.1
20°-30°	435.1	5.1
30°-40°	690.2	8.1
40°-50°	1191.2	14.0
50°-60°	1765.7	20.7
60°-70°	2282.8	26.8
70°-80°	1541.0	18.1
80°-90°	256.1	3.0
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°	8514.0	100.0
0°-180°	8514.0	100.0

Coefficient of Utilization



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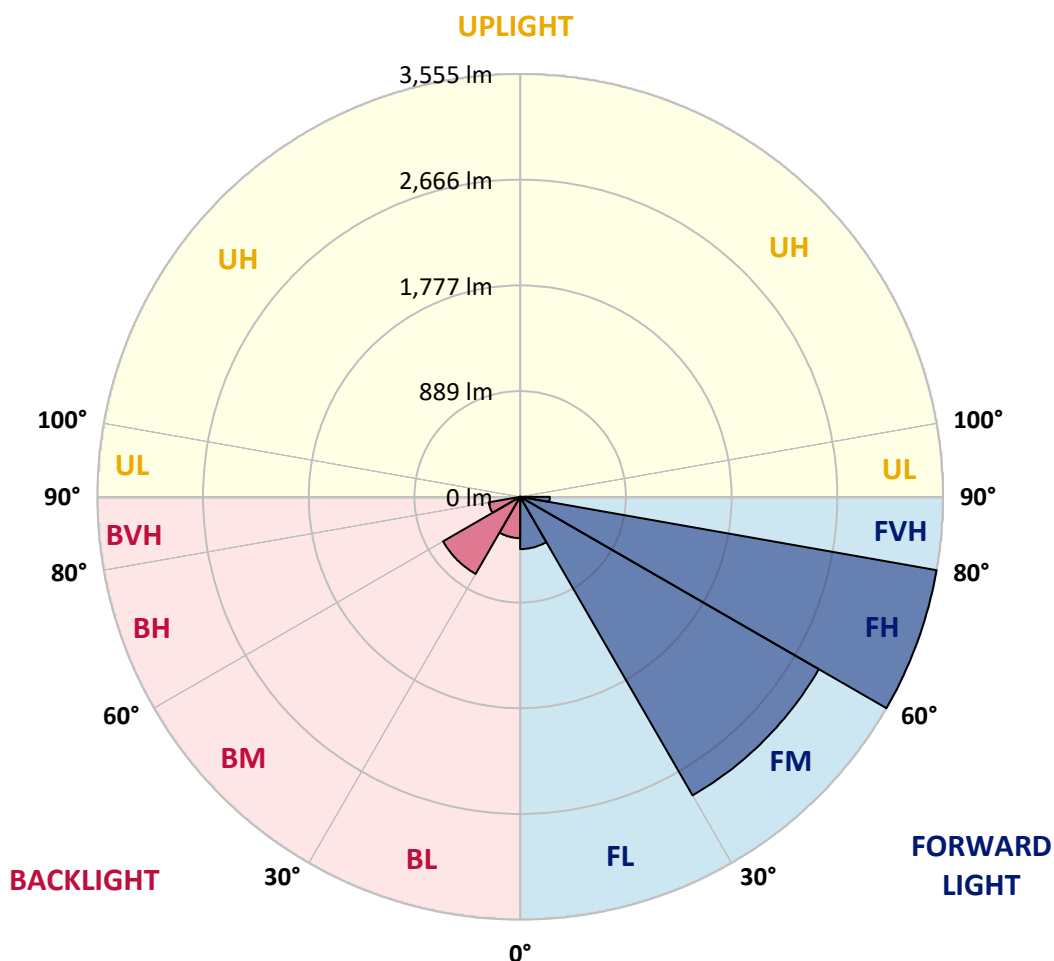
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.5	5.2			
FM (30°-60°)	2898.0	34.0			
FH (60°-80°)	3554.6	41.8			G2/5000
FVH (80°-90°)	248.9	2.9			G3/500
BL (0°-30°)	347.5	4.1	B1/500		
BM (30°-60°)	749.1	8.8	B1/1000		
BH (60°-80°)	269.2	3.2	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	945.0	954.2	953.2	952.2	952.2	951.1	945.0	938.9	942.0	941.0	939.9
5°	949.1	958.3	957.2	956.2	956.2	957.2	948.1	941.0	943.0	945.0	944.0
7.5°	951.1	959.3	957.2	956.2	955.2	958.3	951.1	952.2	954.2	954.2	954.2
10°	954.2	960.3	960.3	961.3	962.3	965.4	962.3	965.4	973.5	971.5	976.6
12.5°	946.0	953.2	956.2	961.3	966.4	968.5	971.5	979.7	989.8	994.9	1000.0
15°	943.0	950.1	955.2	961.3	969.5	971.5	979.7	993.9	1006.1	1016.3	1027.5
17.5°	953.2	961.3	968.5	972.5	976.6	979.7	987.8	1006.1	1027.5	1045.8	1062.1
20°	972.5	980.7	988.8	992.9	995.9	998.0	1004.1	1021.4	1048.9	1077.4	1100.8
22.5°	994.9	1003.1	1012.2	1015.3	1022.4	1022.4	1023.4	1040.8	1074.4	1113.1	1141.6
25°	1019.4	1024.5	1032.6	1037.7	1047.9	1049.9	1053.0	1068.2	1110.0	1153.8	1198.6
27.5°	1047.9	1058.1	1066.2	1072.3	1092.7	1093.7	1091.7	1111.0	1151.8	1205.7	1268.9
30°	1099.8	1111.0	1119.2	1129.3	1155.8	1154.8	1168.0	1188.4	1211.8	1270.9	1355.4
32.5°	1182.3	1183.3	1187.4	1200.6	1238.3	1242.4	1267.8	1304.5	1351.4	1389.0	1478.6
35°	1333.0	1327.9	1315.7	1313.7	1339.1	1341.2	1391.1	1468.5	1570.3	1695.6	1834.0
37.5°	1509.2	1522.4	1508.2	1464.4	1468.5	1469.5	1528.5	1627.3	1816.7	2130.4	2261.8
40°	1818.8	1825.9	1737.3	1668.1	1643.6	1632.4	1663.0	1812.7	2055.0	2463.4	2556.1
42.5°	2091.7	2091.7	2009.2	1902.3	1840.2	1848.3	1839.1	1987.8	2299.4	2752.6	2786.2
45°	2364.6	2355.4	2280.1	2190.5	2081.5	2074.4	2051.0	2165.0	2524.5	2960.3	2961.4
47.5°	2619.2	2640.6	2527.5	2428.8	2317.8	2312.7	2270.9	2359.5	2740.4	3142.6	3115.1
50°	2887.0	2916.6	2775.0	2664.0	2543.8	2551.0	2516.3	2578.5	2955.3	3312.7	3262.8
52.5°	3267.9	3212.9	3043.8	2890.1	2765.8	2786.2	2750.6	2787.2	3178.3	3448.1	3344.3
55°	3676.2	3578.5	3437.9	3180.3	3000.1	2998.0	2971.5	3015.3	3403.3	3602.9	3436.9
57.5°	3895.2	3924.7	3892.1	3683.4	3392.1	3387.0	3228.2	3233.3	3610.1	3735.3	3566.3
60°	4144.7	4181.3	4252.6	4122.3	3976.7	3980.7	3584.6	3466.5	3828.0	3841.2	3576.4
62.5°	4277.1	4281.1	4445.1	4490.9	4609.1	4635.5	4335.1	3751.6	3972.6	3922.7	3593.8
65°	4042.8	4050.0	4365.7	4596.8	4990.9	5026.6	4897.2	4303.5	4080.5	3965.5	3577.5
67.5°	3610.1	3668.1	3898.2	4450.2	5274.0	5279.1	5018.4	4711.9	4118.2	3971.6	3499.1
70°	3025.5	3005.2	3296.4	3959.3	5230.2	5192.6	4965.5	4758.7	4090.7	3888.1	3141.6
72.5°	2243.4	2212.9	2513.3	3183.4	4718.0	4789.3	4728.2	4484.8	3986.8	3576.4	2549.9
75°	1535.7	1571.3	1841.2	2400.3	3918.6	4026.6	4296.4	4273.0	3546.9	2964.4	1745.5
77.5°	1050.9	1066.2	1297.4	1786.2	3106.0	3147.7	3594.8	3452.2	2608.0	1821.8	582.5
80°	684.3	679.2	887.0	1271.9	2277.0	2271.9	2567.3	2184.4	1405.3	621.2	80.4
82.5°	381.9	404.3	531.6	836.1	1538.7	1555.0	1602.9	1194.5	540.7	72.3	50.9
85°	214.9	224.0	305.5	473.5	806.5	847.3	714.9	438.9	96.7	39.7	29.5
87.5°	50.9	48.9	97.8	181.3	134.4	145.6	69.2	20.4	10.2	7.1	7.1
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°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	939.9	937.9	935.9	931.8	928.7	919.6	920.6	926.7	920.6	930.8	924.7
5°	942.0	938.9	933.8	921.6	912.4	905.3	903.3	902.3	894.1	903.3	899.2
7.5°	950.1	947.1	935.9	922.6	909.4	888.0	884.9	880.9	865.6	871.7	866.6
10°	969.5	965.4	946.0	927.7	907.3	878.8	862.5	850.3	833.0	835.0	830.0
12.5°	993.9	989.8	967.4	936.9	908.4	868.7	840.1	816.7	791.3	791.3	786.2
15°	1022.4	1018.3	992.9	957.2	912.4	860.5	817.7	780.1	739.3	734.2	728.1
17.5°	1061.1	1055.0	1025.5	979.7	923.6	853.4	795.3	739.3	677.2	657.9	647.7
20°	1100.8	1093.7	1068.2	1011.2	938.9	846.2	762.7	686.4	605.9	566.2	559.1
22.5°	1151.8	1149.7	1118.1	1038.7	944.0	831.0	722.0	627.3	519.4	464.4	453.2
25°	1211.8	1208.8	1159.9	1060.1	937.9	800.4	664.0	542.8	421.6	366.6	354.4
27.5°	1283.1	1275.0	1195.5	1065.2	920.6	752.6	589.6	433.8	311.6	264.8	255.6
30°	1358.5	1346.3	1233.2	1066.2	886.0	693.5	491.9	318.7	221.0	187.4	187.4
32.5°	1484.8	1443.0	1269.9	1052.0	836.1	609.0	374.8	214.9	154.8	141.6	141.6
35°	1755.6	1655.8	1327.9	1033.6	770.9	504.1	254.6	145.6	129.3	129.3	128.3
37.5°	2162.0	1976.6	1426.7	1003.1	682.3	374.8	168.0	120.2	123.2	123.2	123.2
40°	2421.6	2227.1	1561.1	955.2	580.5	254.6	120.2	114.1	116.1	118.1	118.1
42.5°	2664.0	2445.1	1695.6	889.0	468.4	162.9	112.0	106.9	107.9	107.9	109.0
45°	2817.8	2607.0	1795.4	818.8	345.2	116.1	110.0	100.8	97.8	97.8	99.8
47.5°	2960.3	2712.9	1839.1	726.1	223.0	109.0	104.9	93.7	89.6	88.6	88.6
50°	3102.9	2821.8	1863.6	616.1	139.5	104.9	96.7	85.5	81.5	80.4	80.4
52.5°	3166.0	2856.5	1808.6	491.9	103.9	100.8	90.6	78.4	72.3	72.3	72.3
55°	3232.2	2920.6	1715.9	352.3	98.8	93.7	83.5	70.3	65.2	67.2	67.2
57.5°	3305.6	2874.8	1617.1	229.1	97.8	84.5	74.3	63.1	59.1	61.1	62.1
60°	3283.2	2886.0	1475.6	153.8	93.7	77.4	67.2	56.0	53.0	53.0	53.0
62.5°	3283.2	2799.4	1243.4	117.1	85.5	71.3	62.1	51.9	46.8	44.8	42.8
65°	3196.6	2594.8	908.4	101.8	76.4	66.2	56.0	45.8	39.7	36.7	35.6
67.5°	2934.9	2255.6	365.6	92.7	70.3	61.1	51.9	41.8	34.6	30.6	29.5
70°	2495.0	1665.0	104.9	82.5	71.3	57.0	48.9	36.7	30.6	25.5	24.4
72.5°	1849.3	879.9	85.5	65.2	63.1	48.9	45.8	34.6	26.5	21.4	20.4
75°	933.8	120.2	73.3	46.8	48.9	50.9	43.8	30.6	24.4	17.3	16.3
77.5°	96.7	71.3	64.2	31.6	34.6	35.6	37.7	28.5	21.4	14.3	13.2
80°	60.1	54.0	63.1	27.5	20.4	24.4	25.5	22.4	17.3	11.2	11.2
82.5°	42.8	45.8	46.8	17.3	15.3	14.3	13.2	13.2	15.3	10.2	10.2
85°	29.5	30.6	19.3	11.2	10.2	9.2	8.1	8.1	7.1	8.1	7.1
87.5°	7.1	6.1	6.1	6.1	5.1	5.1	4.1	4.1	4.1	4.1	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)