

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: P509312

Luminaire Tested: **VERD-CA2-70-730-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509312
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-CA2-70-730-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9361 lumens
Efficiency: N/A
Efficacy: 127.2 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

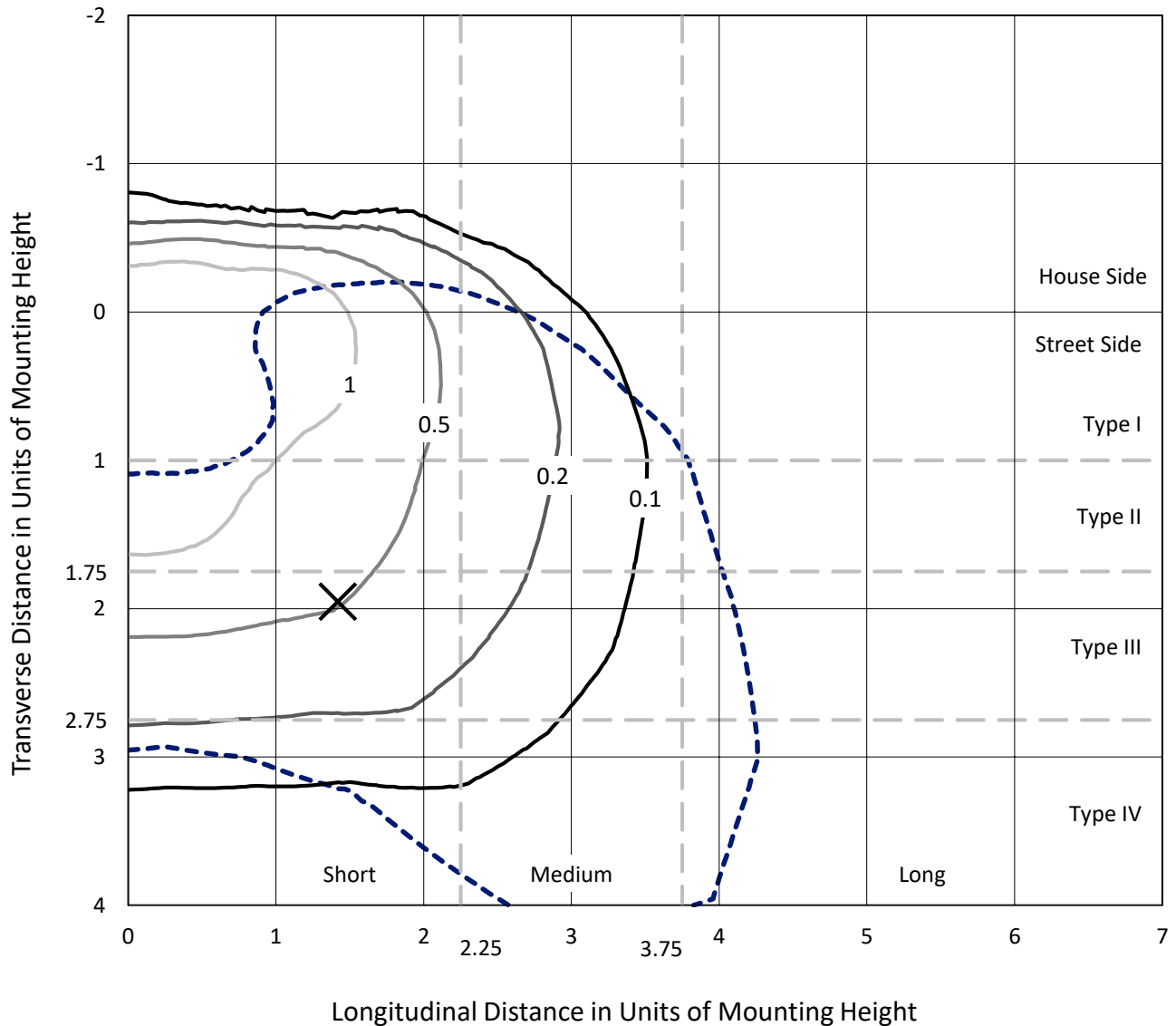
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

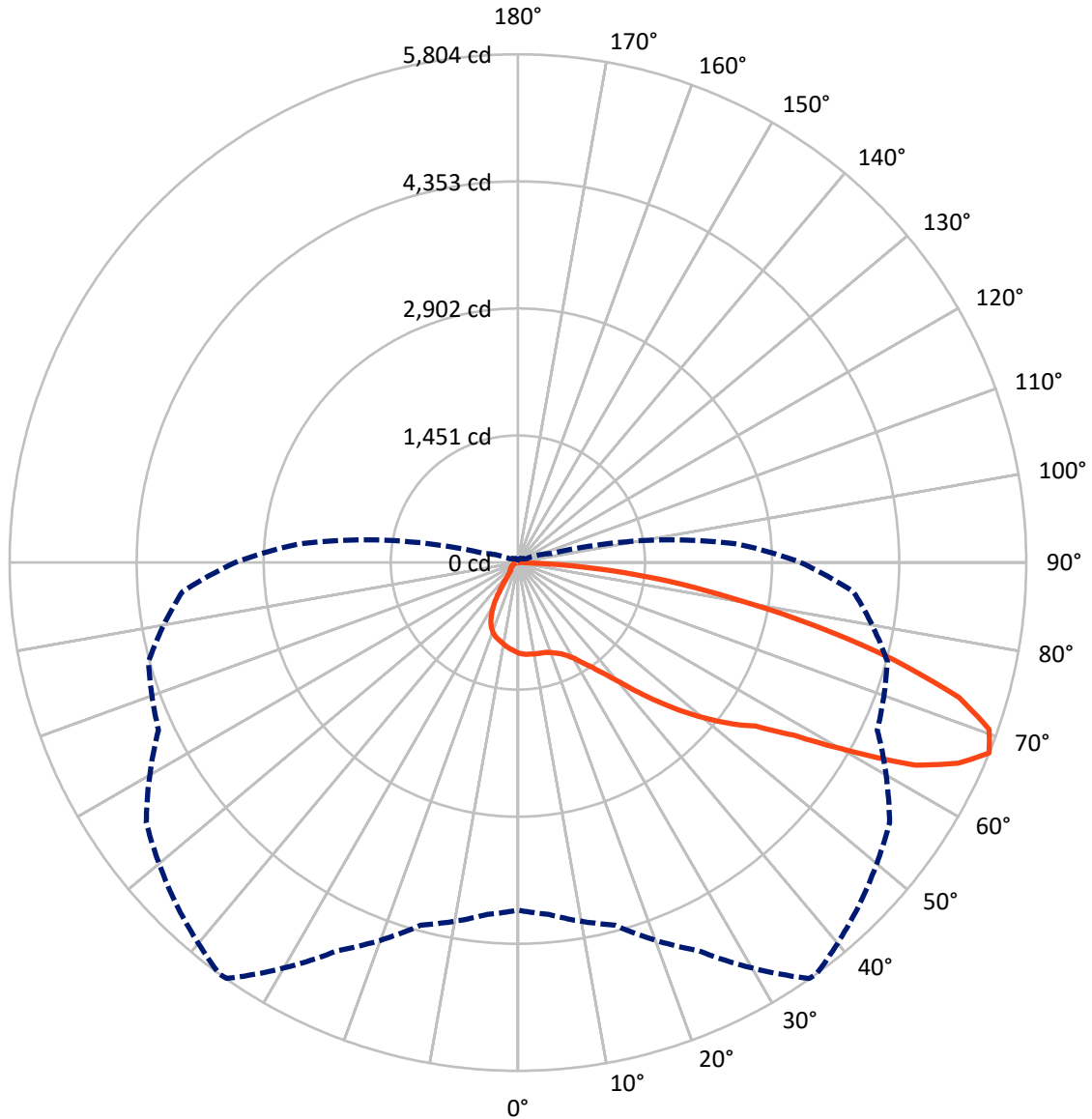
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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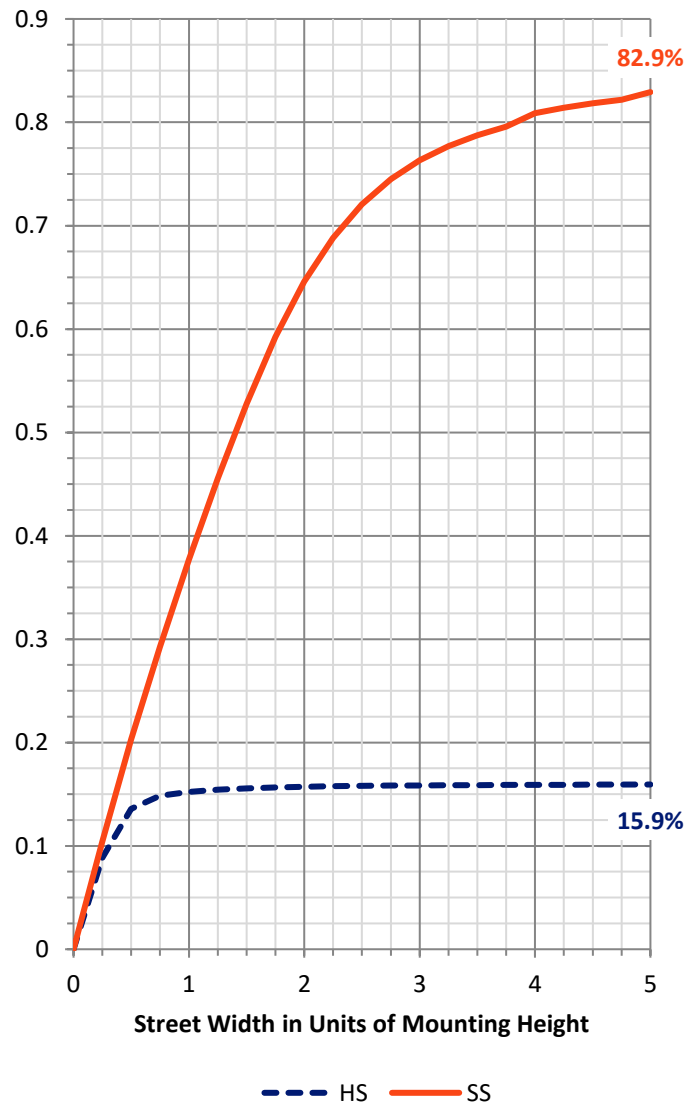
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.6	0.0	1509.6
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	7851.4	0.0	7851.4
	% Fixture	83.9	0.0	83.9
Total	Lumens	9361.0	0.0	9361.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.0
10°-20°	289.3	3.1
20°-30°	478.4	5.1
30°-40°	758.8	8.1
40°-50°	1309.7	14.0
50°-60°	1941.4	20.7
60°-70°	2509.9	26.8
70°-80°	1694.3	18.1
80°-90°	281.6	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°	9361.0	100.0
0°-180°	9361.0	100.0



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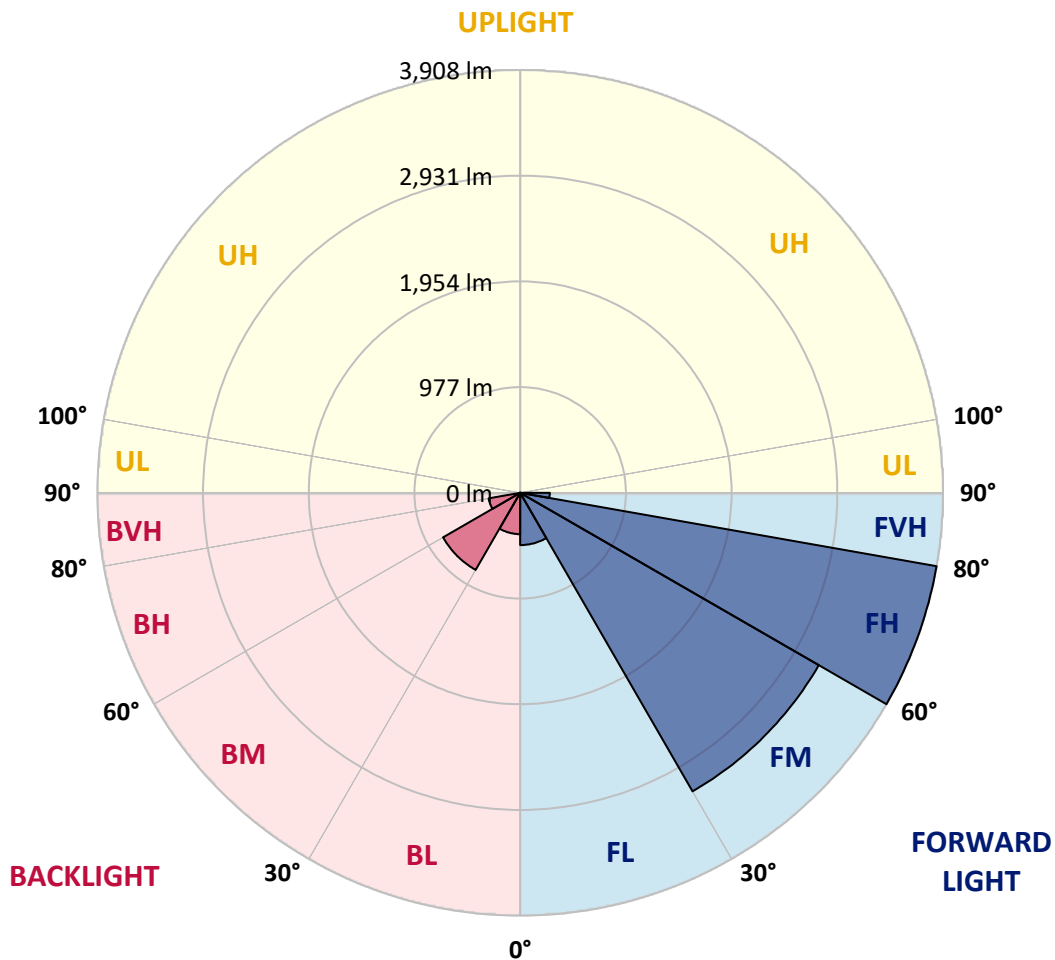
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.2	5.2			
FM (30°-60°)	3186.3	34.0			
FH (60°-80°)	3908.2	41.8			G2/5000
FVH (80°-90°)	273.6	2.9			G3/500
BL (0°-30°)	382.1	4.1	B1/500		
BM (30°-60°)	823.6	8.8	B1/1000		
BH (60°-80°)	296.0	3.2	B1/500		G1/500
BVH (80°-90°)	8.0	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°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1039.0	1049.1	1048.0	1046.9	1046.9	1045.8	1039.0	1032.3	1035.7	1034.6	1033.4
5°	1043.5	1053.6	1052.5	1051.4	1051.4	1052.5	1042.4	1034.6	1036.8	1039.0	1037.9
7.5°	1045.8	1054.7	1052.5	1051.4	1050.2	1053.6	1045.8	1046.9	1049.1	1049.1	1049.1
10°	1049.1	1055.8	1055.8	1057.0	1058.1	1061.4	1058.1	1061.4	1070.4	1068.2	1073.8
12.5°	1040.2	1048.0	1051.4	1057.0	1062.6	1064.8	1068.2	1077.1	1088.3	1093.9	1099.5
15°	1036.8	1044.6	1050.2	1057.0	1065.9	1068.2	1077.1	1092.8	1106.2	1117.4	1129.7
17.5°	1048.0	1057.0	1064.8	1069.3	1073.8	1077.1	1086.1	1106.2	1129.7	1149.9	1167.8
20°	1069.3	1078.2	1087.2	1091.7	1095.0	1097.3	1104.0	1123.0	1153.2	1184.6	1210.4
22.5°	1093.9	1102.9	1112.9	1116.3	1124.1	1124.1	1125.3	1144.3	1181.2	1223.8	1255.1
25°	1120.8	1126.4	1135.3	1140.9	1152.1	1154.4	1157.7	1174.5	1220.4	1268.6	1317.8
27.5°	1152.1	1163.3	1172.3	1179.0	1201.4	1202.5	1200.3	1221.5	1266.3	1325.7	1395.1
30°	1209.2	1221.5	1230.5	1241.7	1270.8	1269.7	1284.2	1306.6	1332.4	1397.3	1490.3
32.5°	1299.9	1301.0	1305.5	1320.1	1361.5	1366.0	1394.0	1434.3	1485.8	1527.2	1625.7
35°	1465.6	1460.0	1446.6	1444.4	1472.4	1474.6	1529.5	1614.5	1726.5	1864.2	2016.5
37.5°	1659.3	1673.9	1658.2	1610.1	1614.5	1615.7	1680.6	1789.2	1997.5	2342.3	2486.8
40°	1999.7	2007.5	1910.1	1834.0	1807.1	1794.8	1828.4	1993.0	2259.5	2708.5	2810.3
42.5°	2299.8	2299.8	2209.1	2091.5	2023.2	2032.2	2022.1	2185.6	2528.2	3026.4	3063.4
45°	2599.8	2589.8	2506.9	2408.4	2288.6	2280.7	2255.0	2380.4	2775.6	3254.8	3256.0
47.5°	2879.8	2903.3	2779.0	2670.4	2548.3	2542.7	2496.8	2594.2	3013.0	3455.3	3425.0
50°	3174.2	3206.7	3051.1	2929.0	2796.9	2804.7	2766.7	2835.0	3249.2	3642.2	3587.4
52.5°	3593.0	3532.5	3346.7	3177.6	3041.0	3063.4	3024.2	3064.5	3494.5	3791.2	3677.0
55°	4042.0	3934.5	3780.0	3496.7	3298.5	3296.3	3267.2	3315.3	3741.9	3961.4	3778.8
57.5°	4282.7	4315.2	4279.3	4049.8	3729.6	3724.0	3549.3	3554.9	3969.2	4106.9	3921.0
60°	4557.0	4597.3	4675.7	4532.4	4372.3	4376.7	3941.2	3811.3	4208.8	4223.4	3932.2
62.5°	4702.6	4707.0	4887.3	4937.7	5067.6	5096.7	4766.4	4124.8	4367.8	4312.9	3951.3
65°	4445.0	4452.9	4800.0	5054.1	5487.4	5526.6	5384.4	4731.7	4486.5	4360.0	3933.4
67.5°	3969.2	4033.0	4286.1	4892.9	5798.7	5804.3	5517.7	5180.7	4527.9	4366.7	3847.1
70°	3326.5	3304.1	3624.3	4353.2	5750.6	5709.1	5459.5	5232.2	4497.7	4274.9	3454.1
72.5°	2466.6	2433.0	2763.3	3500.1	5187.4	5265.8	5198.6	4931.0	4383.5	3932.2	2803.6
75°	1688.4	1727.6	2024.3	2639.0	4308.4	4427.1	4723.8	4698.1	3899.8	3259.3	1919.1
77.5°	1155.5	1172.3	1426.4	1963.9	3415.0	3460.9	3952.4	3795.6	2867.4	2003.1	640.4
80°	752.4	746.8	975.2	1398.5	2503.6	2498.0	2822.7	2401.7	1545.1	683.0	88.5
82.5°	419.9	444.5	584.5	919.2	1691.8	1709.7	1762.3	1313.4	594.5	79.5	56.0
85°	236.2	246.3	335.9	520.6	886.8	931.6	786.0	482.6	106.4	43.7	32.5
87.5°	56.0	53.7	107.5	199.3	147.8	160.1	76.1	22.4	11.2	7.8	7.8
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°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1033.4	1031.2	1029.0	1024.5	1021.1	1011.1	1012.2	1018.9	1012.2	1023.4	1016.6
5°	1035.7	1032.3	1026.7	1013.3	1003.2	995.4	993.1	992.0	983.1	993.1	988.7
7.5°	1044.6	1041.3	1029.0	1014.4	999.9	976.3	973.0	968.5	951.7	958.4	952.8
10°	1065.9	1061.4	1040.2	1020.0	997.6	966.3	948.4	934.9	915.9	918.1	912.5
12.5°	1092.8	1088.3	1063.7	1030.1	998.7	955.1	923.7	898.0	870.0	870.0	864.4
15°	1124.1	1119.7	1091.7	1052.5	1003.2	946.1	899.1	857.7	812.9	807.3	800.6
17.5°	1166.7	1160.0	1127.5	1077.1	1015.5	938.3	874.5	812.9	744.6	723.3	712.1
20°	1210.4	1202.5	1174.5	1111.8	1032.3	930.4	838.6	754.6	666.2	622.5	614.7
22.5°	1266.3	1264.1	1229.4	1142.1	1037.9	913.6	793.8	689.7	571.0	510.6	498.2
25°	1332.4	1329.0	1275.3	1165.6	1031.2	880.1	730.0	596.8	463.5	403.1	389.6
27.5°	1410.8	1401.8	1314.5	1171.2	1012.2	827.4	648.3	477.0	342.6	291.1	281.0
30°	1493.6	1480.2	1355.9	1172.3	974.1	762.5	540.8	350.5	243.0	206.0	206.0
32.5°	1632.5	1586.6	1396.2	1156.6	919.2	669.6	412.0	236.2	170.2	155.6	155.6
35°	1930.3	1820.6	1460.0	1136.5	847.6	554.2	279.9	160.1	142.2	142.2	141.1
37.5°	2377.0	2173.3	1568.6	1102.9	750.2	412.0	184.7	132.1	135.5	135.5	135.5
40°	2662.5	2448.7	1716.4	1050.2	638.2	279.9	132.1	125.4	127.6	129.9	129.9
42.5°	2929.0	2688.3	1864.2	977.5	515.0	179.1	123.2	117.6	118.7	118.7	119.8
45°	3098.1	2866.3	1974.0	900.2	379.6	127.6	120.9	110.8	107.5	107.5	109.7
47.5°	3254.8	2982.8	2022.1	798.3	245.2	119.8	115.3	103.0	98.5	97.4	97.4
50°	3411.6	3102.6	2049.0	677.4	153.4	115.3	106.4	94.1	89.6	88.5	88.5
52.5°	3481.0	3140.6	1988.5	540.8	114.2	110.8	99.6	86.2	79.5	79.5	79.5
55°	3553.8	3211.2	1886.6	387.4	108.6	103.0	91.8	77.3	71.7	73.9	73.9
57.5°	3634.4	3160.8	1778.0	251.9	107.5	92.9	81.7	69.4	64.9	67.2	68.3
60°	3609.8	3173.1	1622.4	169.1	103.0	85.1	73.9	61.6	58.2	58.2	58.2
62.5°	3609.8	3077.9	1367.1	128.8	94.1	78.4	68.3	57.1	51.5	49.3	47.0
65°	3514.6	2852.9	998.7	112.0	84.0	72.8	61.6	50.4	43.7	40.3	39.2
67.5°	3226.9	2480.0	402.0	101.9	77.3	67.2	57.1	45.9	38.1	33.6	32.5
70°	2743.2	1830.6	115.3	90.7	78.4	62.7	53.7	40.3	33.6	28.0	26.9
72.5°	2033.3	967.4	94.1	71.7	69.4	53.7	50.4	38.1	29.1	23.5	22.4
75°	1026.7	132.1	80.6	51.5	53.7	56.0	48.1	33.6	26.9	19.0	17.9
77.5°	106.4	78.4	70.5	34.7	38.1	39.2	41.4	31.4	23.5	15.7	14.6
80°	66.1	59.3	69.4	30.2	22.4	26.9	28.0	24.6	19.0	12.3	12.3
82.5°	47.0	50.4	51.5	19.0	16.8	15.7	14.6	14.6	16.8	11.2	11.2
85°	32.5	33.6	21.3	12.3	11.2	10.1	9.0	9.0	7.8	9.0	7.8
87.5°	7.8	6.7	6.7	6.7	5.6	5.6	4.5	4.5	4.5	4.5	5.6
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)