

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: P509932

Luminaire Tested: **VERD-M-CA3-170-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-170-730-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1060mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21950 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

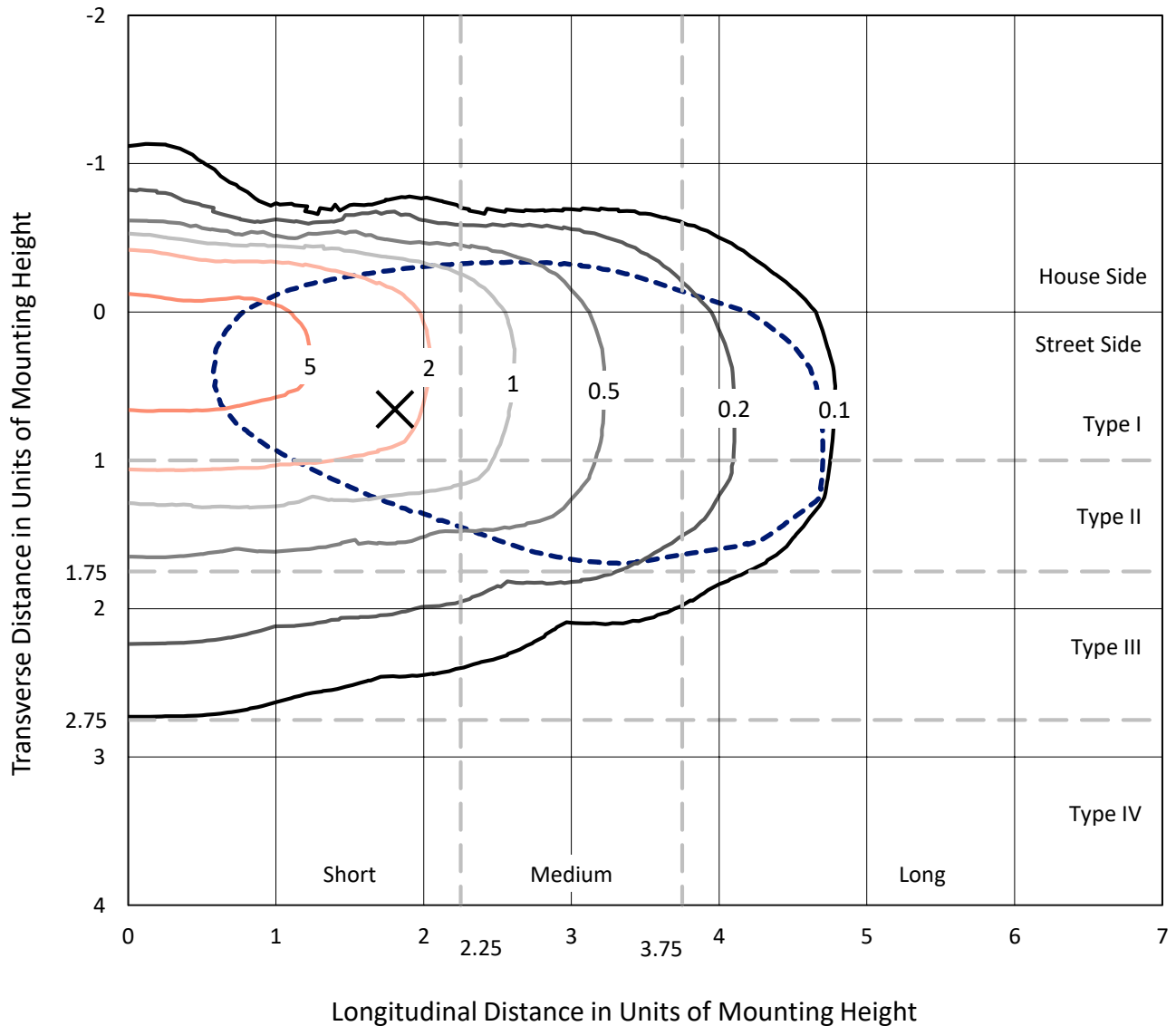
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

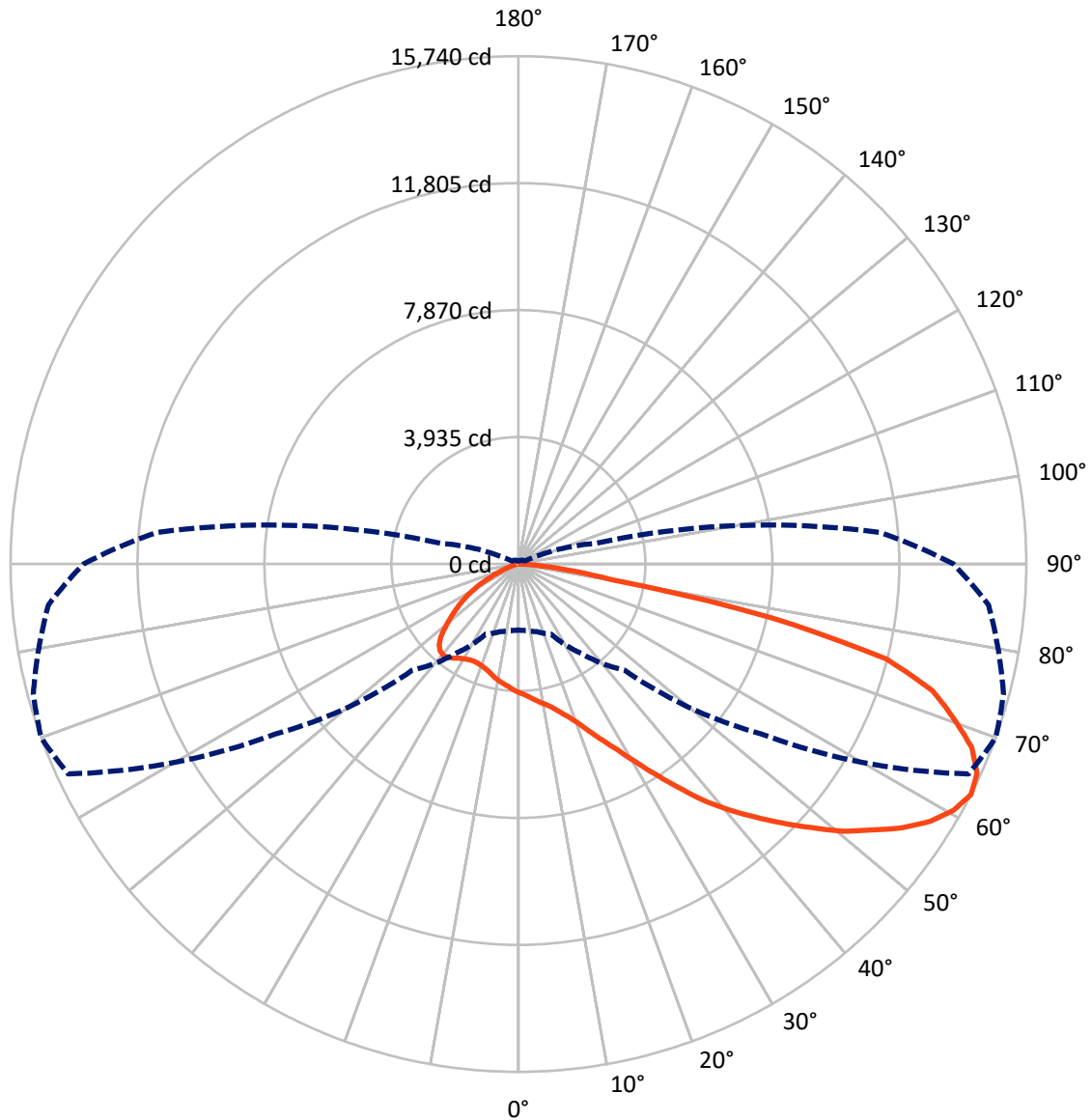
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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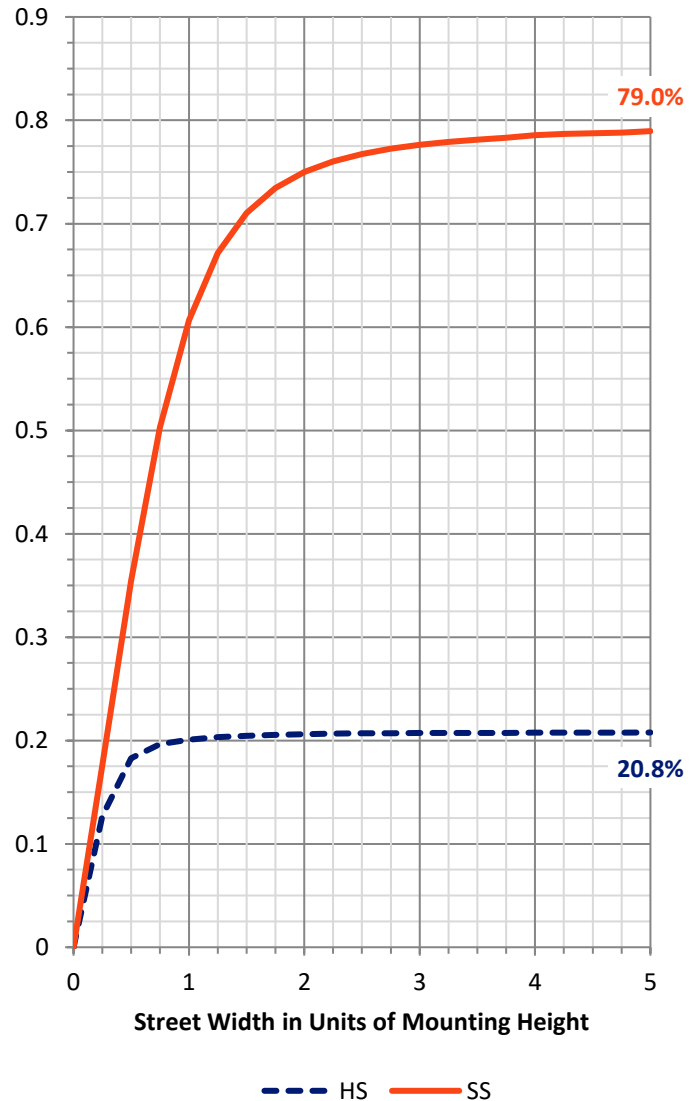
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4615.9	0.0	4615.9
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	17334.1	0.0	17334.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	21950.0	0.0	21950.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.9	1.7
10°-20°	1130.7	5.2
20°-30°	1916.8	8.7
30°-40°	2818.7	12.8
40°-50°	3753.7	17.1
50°-60°	4391.0	20.0
60°-70°	4416.3	20.1
70°-80°	2795.6	12.7
80°-90°	348.3	1.6
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°	21950.0	100.0
0°-180°	21950.0	100.0



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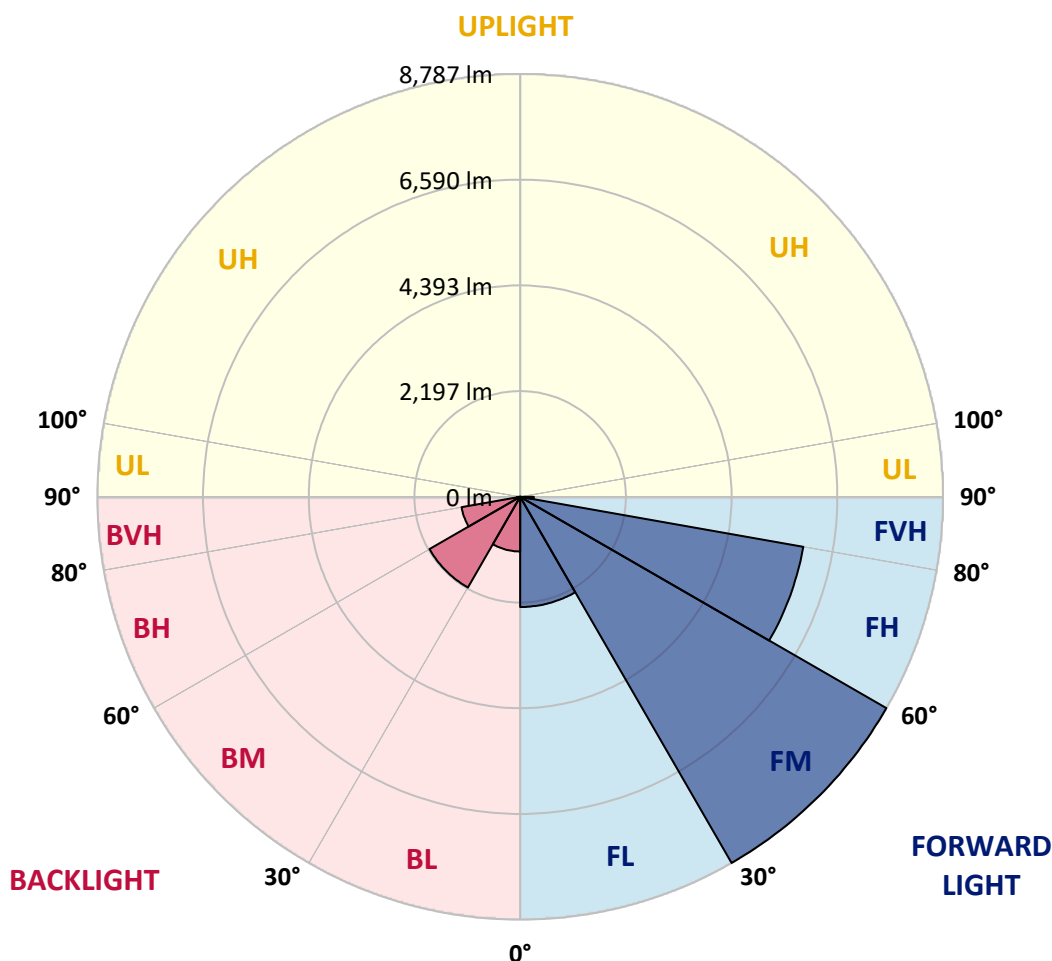
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.9	10.4			
FM (30°-60°)	8787.0	40.0			
FH (60°-80°)	5974.8	27.2			G3/7500
FVH (80°-90°)	282.5	1.3			G3/500
BL (0°-30°)	1136.4	5.2	B3/2500		
BM (30°-60°)	2176.4	9.9	B2/2500		
BH (60°-80°)	1237.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	65.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5
2.5°	4209.4	4246.3	4218.1	4207.3	4215.9	4172.6	4137.9	4088.0	4064.2	4046.8	4018.6
5°	4423.0	4483.7	4446.9	4424.1	4420.8	4341.7	4295.1	4226.8	4173.7	4127.1	4055.5
7.5°	4648.5	4684.3	4670.2	4644.2	4626.8	4530.3	4447.9	4351.5	4292.9	4231.1	4110.8
10°	4845.8	4889.2	4875.1	4828.4	4812.2	4713.5	4619.2	4488.0	4407.8	4330.9	4165.0
12.5°	5049.6	5098.4	5069.1	5022.5	5008.4	4908.7	4811.1	4651.7	4552.0	4465.3	4235.5
15°	5237.1	5281.6	5261.0	5207.9	5193.8	5109.2	5001.9	4853.4	4745.0	4630.1	4335.2
17.5°	5386.7	5431.2	5405.2	5380.2	5375.9	5292.4	5228.5	5076.7	4973.7	4817.6	4488.0
20°	5496.2	5541.8	5528.8	5540.7	5586.2	5524.4	5485.4	5357.5	5252.3	5083.2	4708.1
22.5°	5583.0	5641.5	5693.5	5717.4	5801.9	5797.6	5788.9	5713.0	5630.7	5455.0	4970.5
25°	5591.6	5658.8	5761.8	5873.5	6027.4	6101.1	6155.3	6143.4	6046.9	5873.5	5333.6
27.5°	5604.6	5674.0	5780.3	5972.1	6247.5	6419.9	6509.8	6565.1	6508.8	6392.8	5746.7
30°	5576.5	5648.0	5781.3	6026.3	6398.2	6718.0	6878.4	7083.3	7089.8	6992.2	6370.0
32.5°	5448.5	5542.8	5704.4	6032.8	6544.5	7029.1	7276.3	7669.8	7755.4	7682.8	7012.8
35°	5235.0	5320.6	5551.5	5975.4	6633.4	7288.2	7740.3	8353.8	8480.7	8476.3	7769.5
37.5°	4998.6	5085.4	5345.5	5839.9	6690.9	7519.1	8149.0	9032.5	9285.1	9231.9	8483.9
40°	4737.4	4828.4	5128.7	5669.7	6662.7	7725.1	8581.5	9690.5	10003.8	10010.3	9166.9
42.5°	4433.8	4508.6	4810.0	5434.4	6569.5	7876.8	8983.7	10383.2	10712.8	10694.3	9810.8
45°	4143.3	4221.4	4484.8	5070.2	6353.7	7961.4	9378.3	11084.6	11445.6	11387.1	10526.3
47.5°	3792.1	3903.7	4204.0	4764.5	6020.9	7954.9	9723.0	11802.3	12207.7	12160.0	11144.2
50°	2918.3	2984.4	3664.2	4449.0	5569.9	7803.1	10060.2	12506.9	13019.7	12926.4	11803.3
52.5°	2628.9	2688.5	2907.5	4070.7	5160.2	7474.7	10340.9	13313.5	13697.2	13624.6	12476.6
55°	2484.7	2517.2	2650.5	3357.4	4760.1	6941.3	10528.5	14030.0	14429.0	14268.5	13106.4
57.5°	2303.6	2343.8	2498.8	2867.4	4268.0	6122.8	10485.1	14676.1	15044.7	14798.6	13661.4
60°	2164.9	2195.2	2340.5	2581.2	3759.6	5275.1	10041.7	15310.3	15495.7	15252.9	14214.3
62.5°	2047.8	2065.2	2167.1	2395.8	3372.5	4656.1	9176.6	15394.9	15739.6	15564.0	14626.3
65°	1902.5	1906.9	2027.2	2206.1	3014.8	4284.2	8434.1	14961.2	15618.2	15559.6	14774.8
67.5°	1732.3	1741.0	1862.4	1999.0	2584.4	3888.6	7277.4	14728.2	15146.6	15109.8	14481.0
70°	1518.8	1536.1	1647.8	1751.9	2188.7	3413.7	5792.2	13806.7	14303.2	14249.0	13512.9
72.5°	1312.8	1303.1	1407.1	1510.1	1823.4	2850.0	4390.5	12220.7	13416.4	13364.4	12255.4
75°	1078.6	1072.1	1179.5	1277.0	1494.9	2302.6	3088.5	9037.9	11788.2	11948.6	10567.5
77.5°	664.5	670.0	731.7	796.8	1012.5	1720.4	1970.8	5027.9	8008.0	9496.4	8293.1
80°	481.3	481.3	526.9	565.9	670.0	1048.3	981.1	2096.6	2927.0	4583.4	5172.1
82.5°	312.2	299.2	327.4	361.0	372.9	454.2	448.8	1051.5	1491.7	1795.2	2154.0
85°	162.6	180.0	108.4	152.9	161.5	150.7	155.0	493.3	662.4	848.8	934.5
87.5°	24.9	19.5	26.0	35.8	41.2	34.7	30.4	57.5	88.9	118.2	139.8
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°	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5	3990.5
2.5°	4000.2	3994.8	3944.9	3872.3	3812.7	3762.8	3730.3	3708.6	3732.5	3689.1	3683.7
5°	4011.1	3974.2	3865.8	3761.7	3681.5	3574.2	3501.5	3452.8	3472.3	3434.3	3419.2
7.5°	4040.3	3973.1	3823.5	3657.7	3505.9	3391.0	3279.3	3172.0	3155.7	3131.9	3133.0
10°	4066.3	3969.9	3774.7	3557.9	3381.2	3178.5	3044.1	2933.5	2908.6	2880.4	2866.3
12.5°	4107.5	3977.5	3714.0	3451.7	3215.4	2981.2	2835.9	2705.8	2680.9	2625.6	2613.7
15°	4189.9	4004.6	3654.4	3320.5	3028.9	2792.6	2605.0	2491.2	2445.7	2383.9	2382.8
17.5°	4297.3	4083.7	3624.0	3196.9	2870.6	2606.1	2407.7	2292.8	2215.8	2179.0	2169.2
20°	4450.1	4186.7	3623.0	3085.3	2705.8	2406.6	2179.0	2048.9	1983.8	1953.5	1935.1
22.5°	4685.3	4338.4	3642.5	3007.2	2540.0	2213.7	1987.1	1808.2	1700.9	1617.4	1629.4
25°	4978.0	4566.1	3686.9	2935.7	2395.8	2029.4	1745.4	1497.1	1305.2	1221.7	1228.3
27.5°	5349.9	4838.2	3801.8	2863.0	2232.1	1831.0	1429.9	1114.4	969.2	871.6	879.2
30°	5825.8	5176.4	3952.5	2806.7	2080.3	1553.5	1076.5	821.7	693.8	613.6	606.0
32.5°	6394.9	5666.4	4117.3	2768.7	1914.5	1206.6	776.2	602.7	478.1	432.5	439.0
35°	7099.6	6217.1	4368.8	2713.4	1630.4	858.6	554.0	407.6	343.7	335.0	336.1
37.5°	7742.4	6780.9	4618.1	2620.2	1286.8	610.3	376.2	310.0	296.0	292.7	297.0
40°	8372.3	7294.7	4843.6	2484.7	884.6	418.5	276.4	279.7	267.8	259.1	254.8
42.5°	8962.0	7790.1	5020.3	2235.4	604.9	276.4	245.0	254.8	252.6	235.2	227.7
45°	9598.4	8313.7	5117.9	1886.3	380.5	235.2	220.1	237.4	248.3	228.7	220.1
47.5°	10141.5	8824.3	5113.6	1445.1	258.0	222.2	207.1	222.2	235.2	221.2	213.6
50°	10768.1	9247.1	4974.8	917.1	228.7	206.0	198.4	203.8	221.2	211.4	203.8
52.5°	11464.0	9826.0	4764.5	511.7	216.8	195.1	184.3	190.8	206.0	194.0	198.4
55°	12040.8	10306.2	4270.1	349.1	211.4	182.1	175.6	180.0	186.5	174.5	181.0
57.5°	12555.7	10703.0	3770.4	286.2	203.8	173.5	172.4	163.7	162.6	155.0	148.5
60°	13077.1	11016.3	3096.1	259.1	196.2	174.5	156.1	144.2	134.4	126.8	123.6
62.5°	13477.2	11233.1	2448.9	234.2	185.4	163.7	143.1	123.6	107.3	97.6	97.6
65°	13594.2	11136.6	1723.7	212.5	173.5	153.9	127.9	100.8	81.3	74.8	71.5
67.5°	13219.1	10582.7	1200.1	196.2	161.5	143.1	112.7	82.4	65.0	56.4	54.2
70°	12264.1	9655.8	707.9	173.5	146.3	124.7	103.0	67.2	53.1	44.4	42.3
72.5°	10852.6	8266.0	441.2	147.4	125.8	101.9	77.0	55.3	42.3	34.7	33.6
75°	8964.2	6443.7	288.4	113.8	99.7	80.2	58.5	44.4	36.9	29.3	27.1
77.5°	7188.5	4558.5	258.0	86.7	73.7	57.5	44.4	36.9	30.4	26.0	26.0
80°	4136.8	2601.8	211.4	59.6	45.5	43.4	34.7	30.4	28.2	24.9	23.8
82.5°	2032.6	1249.9	136.6	36.9	26.0	28.2	29.3	27.1	23.8	21.7	21.7
85°	700.3	416.3	55.3	23.8	17.3	17.3	18.4	19.5	18.4	17.3	17.3
87.5°	108.4	79.1	15.2	14.1	10.8	9.8	10.8	11.9	11.9	10.8	10.8
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)