

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: P553620

Luminaire Tested: **VERD-G-CA2-160-740-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1460mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20268 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

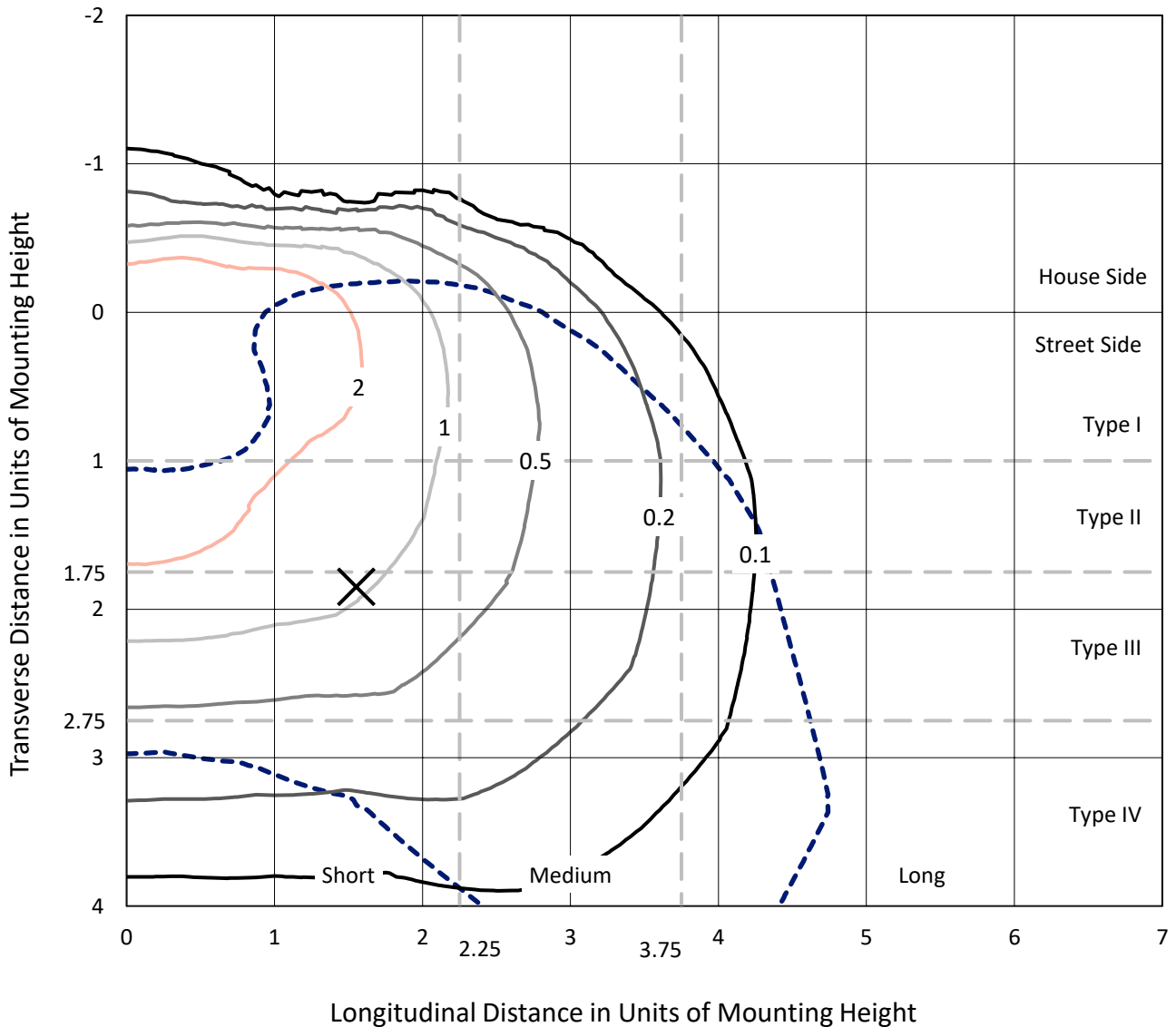
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

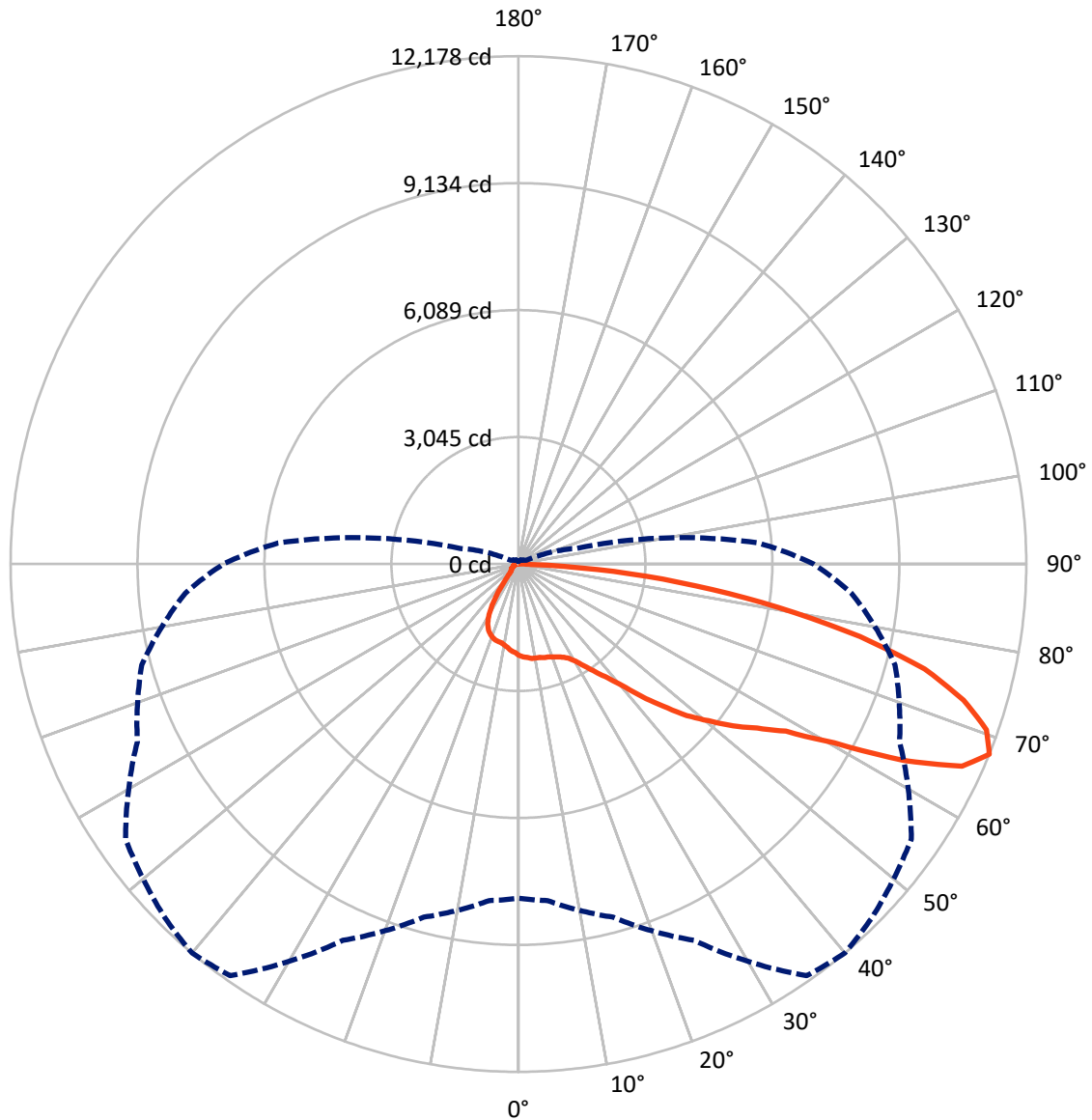
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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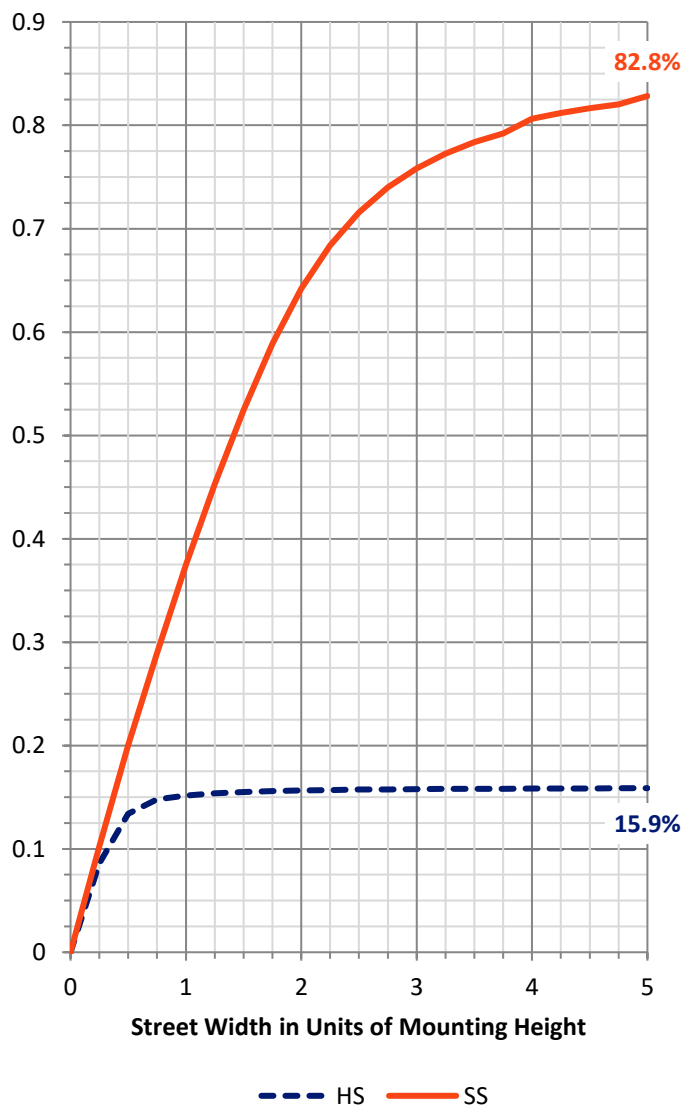
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.7	0.0	3252.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	17015.3	0.0	17015.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	20268.0	0.0	20268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	1.0
10°-20°	615.8	3.0
20°-30°	1024.5	5.1
30°-40°	1611.0	7.9
40°-50°	2789.3	13.8
50°-60°	4123.1	20.3
60°-70°	5360.3	26.4
70°-80°	3836.7	18.9
80°-90°	699.7	3.5
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°	20268.0	100.0
0°-180°	20268.0	100.0

Coefficient of Utilization



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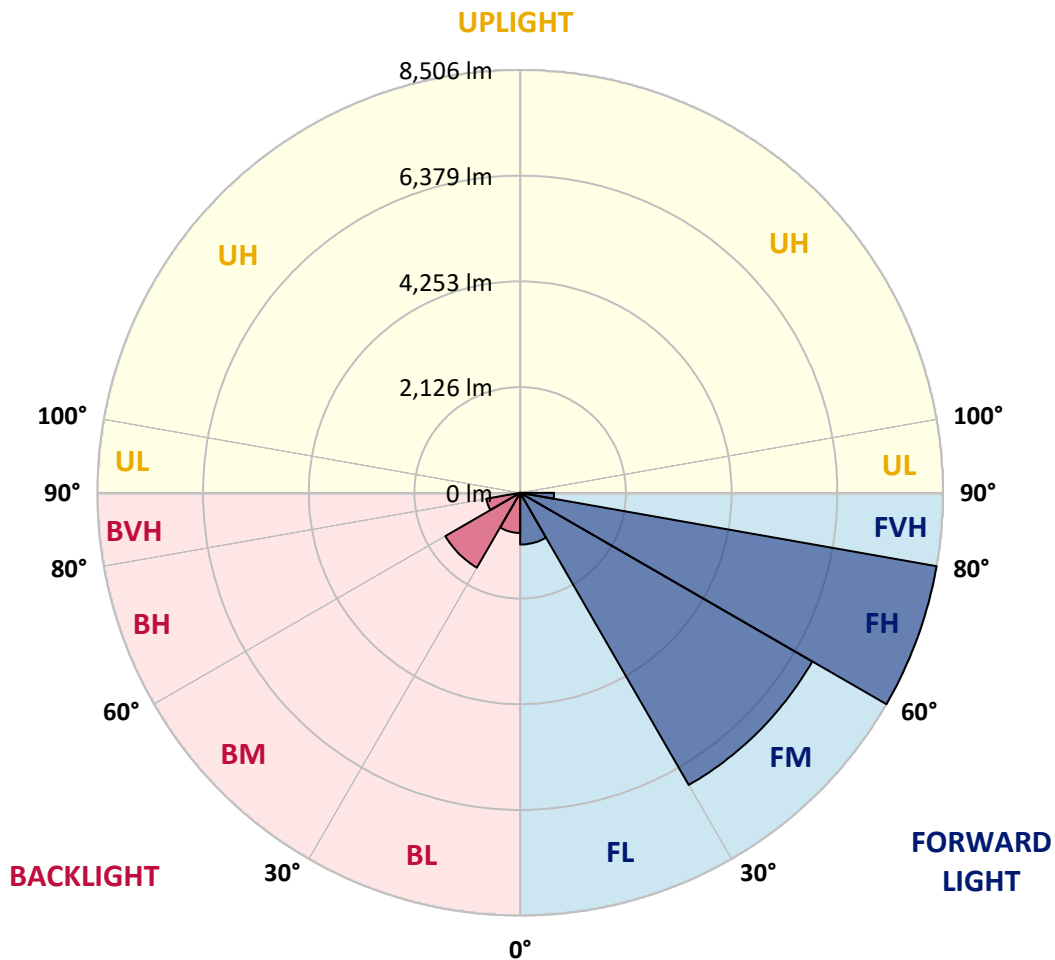
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.0	5.1			
FM	(30°-60°)	6785.9	33.5			
FH	(60°-80°)	8506.0	42.0			G4/12000
FVH	(80°-90°)	682.5	3.4			G4/750
BL	(0°-30°)	806.9	4.0	B2/1000		
BM	(30°-60°)	1737.5	8.6	B2/2500		
BH	(60°-80°)	691.1	3.4	B2/1000		G2/1000
BVH	(80°-90°)	17.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9
2.5°	2282.7	2281.2	2266.2	2258.6	2237.6	2230.1	2231.6	2222.5	2201.5	2204.5	2183.4
5°	2285.7	2296.3	2273.7	2267.7	2260.2	2251.1	2261.7	2249.6	2231.6	2237.6	2215.0
7.5°	2299.3	2303.8	2293.3	2287.2	2269.2	2287.2	2285.7	2275.2	2263.2	2252.6	2243.6
10°	2303.8	2299.3	2278.2	2273.7	2273.7	2291.8	2299.3	2303.8	2303.8	2287.2	2281.2
12.5°	2281.2	2278.2	2257.1	2266.2	2285.7	2297.8	2321.8	2336.9	2361.0	2342.9	2333.9
15°	2246.6	2254.1	2263.2	2266.2	2302.3	2329.4	2351.9	2379.0	2419.7	2419.7	2416.6
17.5°	2257.1	2272.2	2282.7	2297.8	2332.4	2341.4	2373.0	2416.6	2484.4	2488.9	2496.4
20°	2309.8	2309.8	2312.8	2323.4	2353.4	2380.5	2407.6	2463.3	2541.5	2567.1	2574.6
22.5°	2367.0	2364.0	2377.5	2376.0	2400.1	2418.2	2452.8	2500.9	2598.7	2646.9	2666.4
25°	2413.6	2422.7	2434.7	2419.7	2466.3	2473.8	2500.9	2559.6	2663.4	2749.2	2791.3
27.5°	2493.4	2499.4	2496.4	2503.9	2550.6	2555.1	2580.7	2664.9	2761.2	2878.6	2970.4
30°	2630.3	2609.3	2612.3	2628.8	2696.5	2705.6	2732.6	2813.9	2890.6	3045.6	3190.1
32.5°	2818.4	2818.4	2785.3	2816.9	2895.2	2919.2	2959.9	3081.8	3157.0	3239.8	3477.5
35°	3178.1	3178.1	3154.0	3071.2	3110.3	3170.5	3245.8	3414.3	3646.0	3916.9	4169.7
37.5°	3773.9	3764.9	3670.1	3521.1	3436.9	3457.9	3531.7	3804.0	4180.2	4840.8	5034.9
40°	4485.7	4460.1	4282.6	4074.9	3859.7	3823.6	3858.2	4199.8	4735.5	5715.1	5788.8
42.5°	5117.7	5116.2	4855.9	4679.8	4404.4	4344.2	4303.6	4600.1	5292.2	6350.1	6375.7
45°	5721.1	5706.1	5453.3	5262.2	5010.9	4857.4	4846.8	5054.5	5877.6	6921.9	6813.6
47.5°	6258.3	6280.9	5998.0	5814.4	5536.0	5430.7	5346.4	5524.0	6416.3	7409.4	7185.2
50°	6876.8	6917.4	6494.6	6292.9	6011.5	5907.7	5954.3	6085.3	6953.5	7808.2	7516.3
52.5°	7657.7	7528.3	7108.5	6762.4	6500.6	6449.4	6459.9	6642.0	7575.0	8134.7	7746.5
55°	8577.1	8386.0	7964.7	7424.5	6997.1	6949.0	6944.5	7129.6	8149.8	8440.2	7924.1
57.5°	8923.2	9022.6	8857.0	8458.3	7702.9	7561.4	7451.6	7623.1	8665.9	8777.3	8110.7
60°	9722.3	9829.1	9707.2	9451.4	9195.6	8703.5	8222.0	8205.5	9147.4	9099.3	8188.9
62.5°	9811.0	9776.4	10318.2	10408.4	10560.4	10369.3	10012.7	8977.4	9582.3	9263.3	8250.6
65°	9314.5	9319.0	10045.8	10542.4	11592.7	11690.5	11469.3	10205.3	9908.9	9328.0	8207.0
67.5°	8014.4	8103.1	8765.2	9955.5	12050.1	12178.0	11991.4	11500.9	10084.9	9350.6	8017.4
70°	6887.3	6890.3	7516.3	8968.4	11809.4	11905.7	11819.9	11585.2	10017.2	9171.5	7502.7
72.5°	5420.2	5403.6	5952.8	7420.0	10959.2	11163.8	11117.2	11278.2	9768.9	8524.5	6383.2
75°	3913.9	3947.0	4503.8	5715.1	9427.3	10062.3	10288.1	10778.6	8884.1	7239.4	4679.8
77.5°	2740.2	2773.3	3307.5	4341.2	7608.1	8374.0	8736.6	9167.0	7200.3	5366.0	2398.6
80°	1792.2	1822.3	2281.2	3260.8	5671.4	6324.5	6596.9	6339.6	4228.4	2254.1	263.3
82.5°	1041.3	1100.0	1449.1	2237.6	3974.1	4284.1	4299.1	3336.1	1580.0	201.6	123.4
85°	507.1	544.7	866.7	1327.2	2174.4	2285.7	2120.2	1241.4	368.7	96.3	70.7
87.5°	75.2	99.3	341.6	501.1	368.7	302.5	182.1	42.1	24.1	12.0	9.0
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°	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9	2193.9
2.5°	2171.4	2169.9	2174.4	2154.8	2156.3	2132.2	2123.2	2118.7	2139.8	2136.8	2151.8
5°	2198.5	2183.4	2181.9	2133.8	2129.2	2099.1	2081.1	2054.0	2075.1	2070.6	2070.6
7.5°	2215.0	2200.0	2190.9	2133.8	2094.6	2042.0	2011.9	1990.8	1989.3	1984.8	1986.3
10°	2242.1	2234.6	2186.4	2123.2	2070.6	2002.8	1945.7	1912.6	1897.5	1899.0	1888.5
12.5°	2302.3	2287.2	2222.5	2147.3	2063.0	1969.7	1896.0	1837.3	1807.2	1801.2	1784.6
15°	2388.1	2371.5	2290.2	2204.5	2082.6	1972.7	1862.9	1759.1	1707.9	1686.8	1671.8
17.5°	2488.9	2463.3	2370.0	2272.2	2123.2	1969.7	1831.3	1691.4	1593.5	1537.9	1533.4
20°	2568.6	2556.6	2449.8	2344.4	2148.8	1950.2	1778.6	1593.5	1447.6	1345.3	1324.2
22.5°	2674.0	2675.5	2556.6	2398.6	2169.9	1917.1	1695.9	1456.6	1258.0	1121.0	1097.0
25°	2825.9	2803.4	2669.4	2442.2	2174.4	1879.4	1583.0	1285.1	1026.2	872.8	845.7
27.5°	3008.0	2974.9	2761.2	2464.8	2154.8	1804.2	1432.5	1060.9	758.4	626.0	604.9
30°	3200.6	3122.4	2836.5	2473.8	2094.6	1682.3	1218.9	775.0	537.2	443.9	434.9
32.5°	3447.4	3333.0	2901.2	2443.7	2002.8	1497.2	945.0	531.2	371.7	322.0	325.0
35°	3953.0	3673.1	3002.0	2410.6	1873.4	1265.5	660.6	352.1	287.4	281.4	282.9
37.5°	4717.4	4273.5	3179.6	2362.5	1680.8	967.6	424.3	272.4	273.9	273.9	273.9
40°	5456.3	4929.6	3451.9	2267.7	1444.6	677.1	279.9	257.3	264.8	263.3	264.8
42.5°	5982.9	5417.1	3737.8	2151.8	1172.2	428.9	251.3	242.3	246.8	245.3	249.8
45°	6410.3	5835.5	3998.2	1987.8	877.3	279.9	246.8	230.2	225.7	224.2	228.7
47.5°	6726.3	6110.8	4184.7	1783.1	585.4	240.8	236.2	212.2	206.2	206.2	207.7
50°	7033.3	6375.7	4240.4	1549.9	361.1	234.7	222.7	197.1	188.1	185.1	188.1
52.5°	7246.9	6466.0	4252.5	1286.6	242.3	228.7	206.2	179.1	168.5	167.0	168.5
55°	7429.0	6651.0	4154.6	958.5	216.7	215.2	191.1	161.0	149.0	155.0	158.0
57.5°	7474.2	6669.1	3959.0	633.5	215.2	197.1	174.6	144.5	135.4	141.4	143.0
60°	7588.5	6595.4	3715.3	389.7	210.7	176.1	155.0	127.9	121.9	123.4	126.4
62.5°	7490.7	6554.7	3298.4	272.4	194.1	161.0	144.5	117.4	106.8	105.3	105.3
65°	7391.4	6315.5	2522.0	225.7	173.0	150.5	130.9	103.8	91.8	85.8	85.8
67.5°	7075.4	5779.8	1440.1	209.2	156.5	138.4	118.9	94.8	79.8	72.2	69.2
70°	6279.4	4630.2	443.9	191.1	158.0	129.4	109.8	82.8	69.2	58.7	57.2
72.5°	4917.6	2895.2	207.7	168.5	162.5	120.4	102.3	76.7	61.7	49.7	48.2
75°	2893.7	693.7	170.0	124.9	138.4	127.9	100.8	73.7	54.2	40.6	39.1
77.5°	629.0	168.5	152.0	84.3	103.8	123.4	96.3	64.7	48.2	31.6	30.1
80°	152.0	132.4	138.4	64.7	69.2	85.8	78.2	55.7	43.6	25.6	24.1
82.5°	102.3	99.3	121.9	40.6	34.6	31.6	33.1	34.6	36.1	19.6	18.1
85°	67.7	85.8	64.7	22.6	19.6	16.6	16.6	15.0	21.1	12.0	12.0
87.5°	10.5	9.0	10.5	9.0	9.0	7.5	6.0	6.0	4.5	6.0	6.0
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)