

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: P553636

Luminaire Tested: **VERD-G-CA2-160-760-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553636
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-CA2-160-760-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1460mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20202 lumens
Efficiency: N/A
Efficacy: 124.2 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

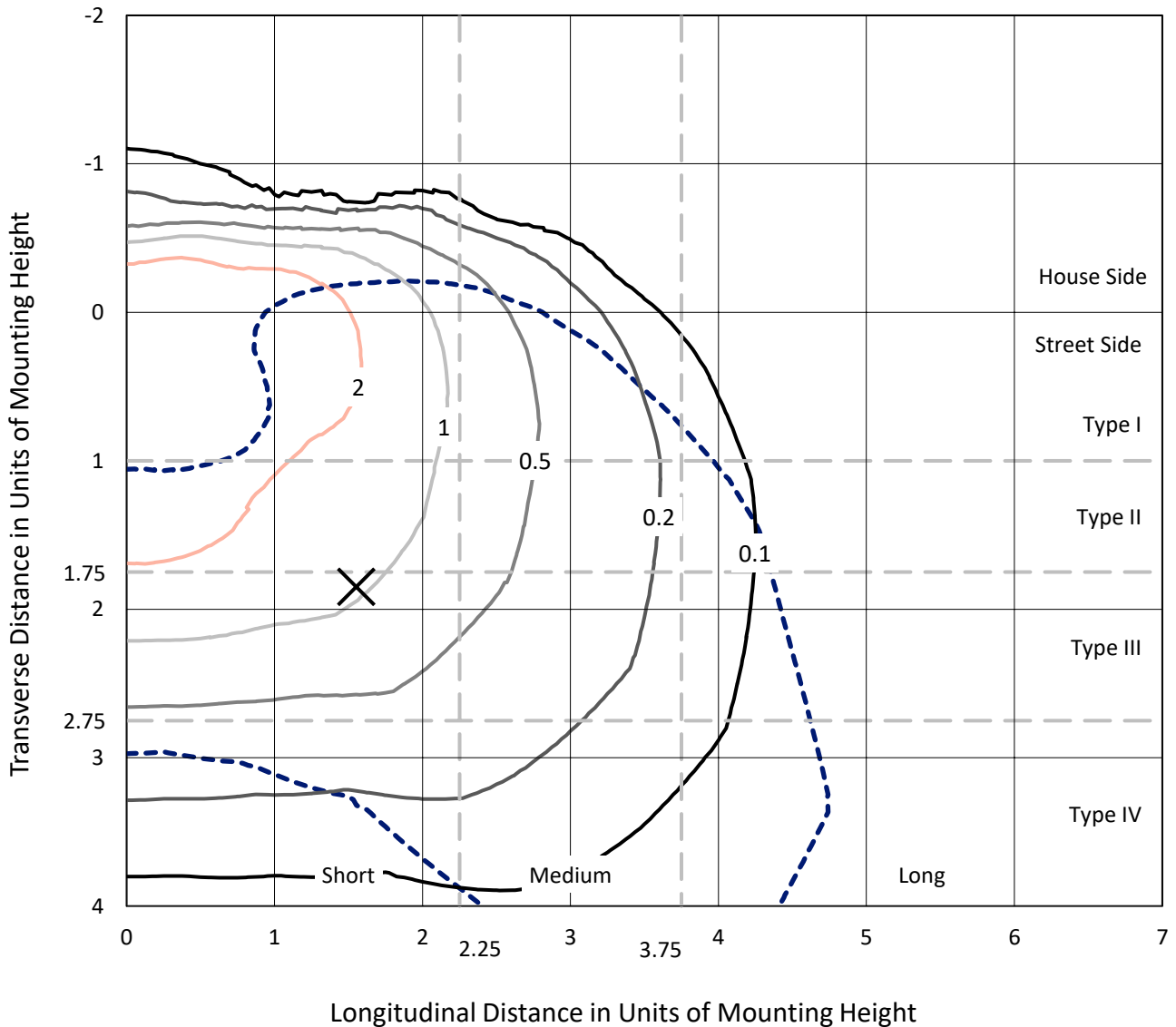
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

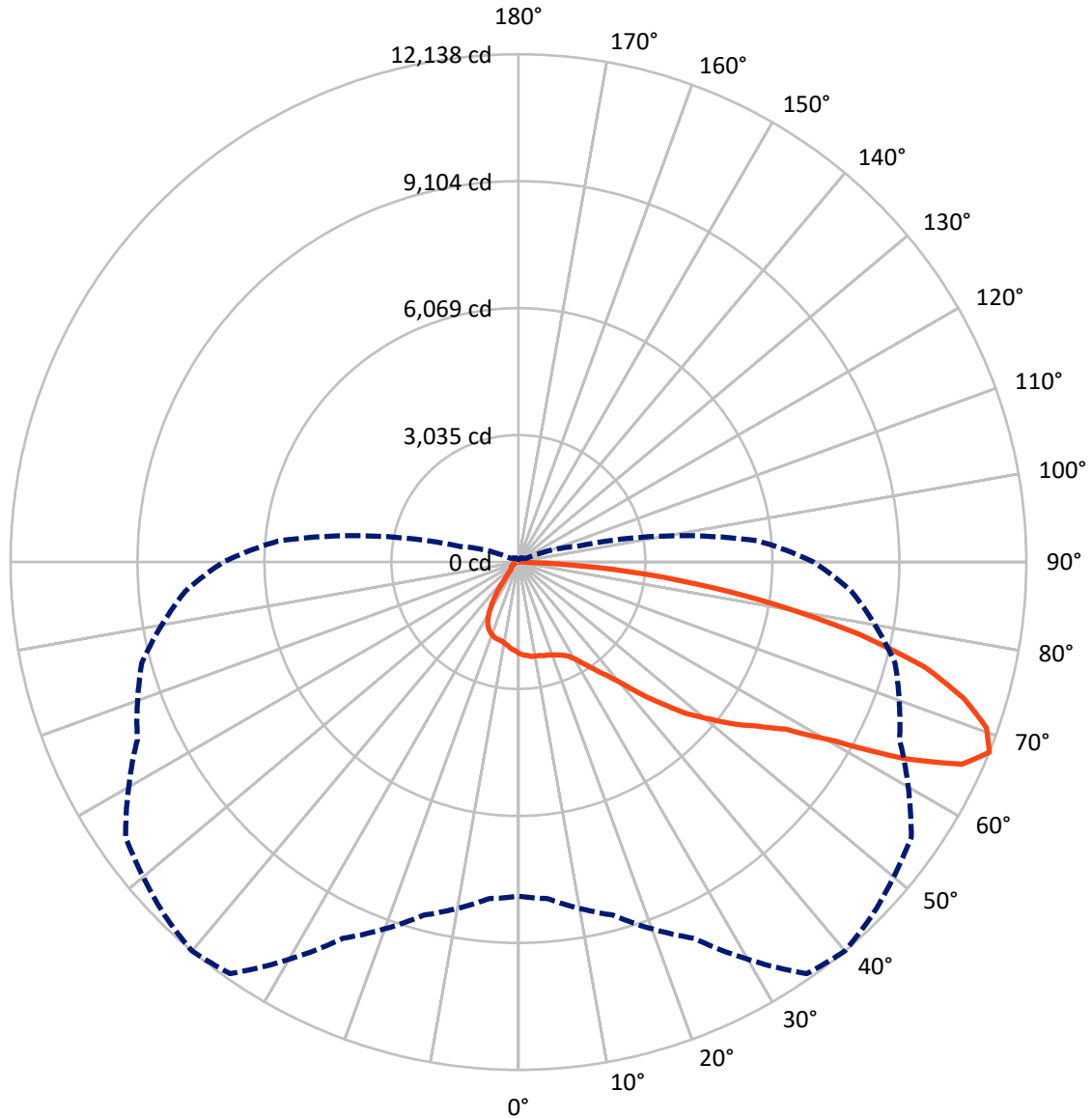
× Max cd
 - - - 1/2 Max cd



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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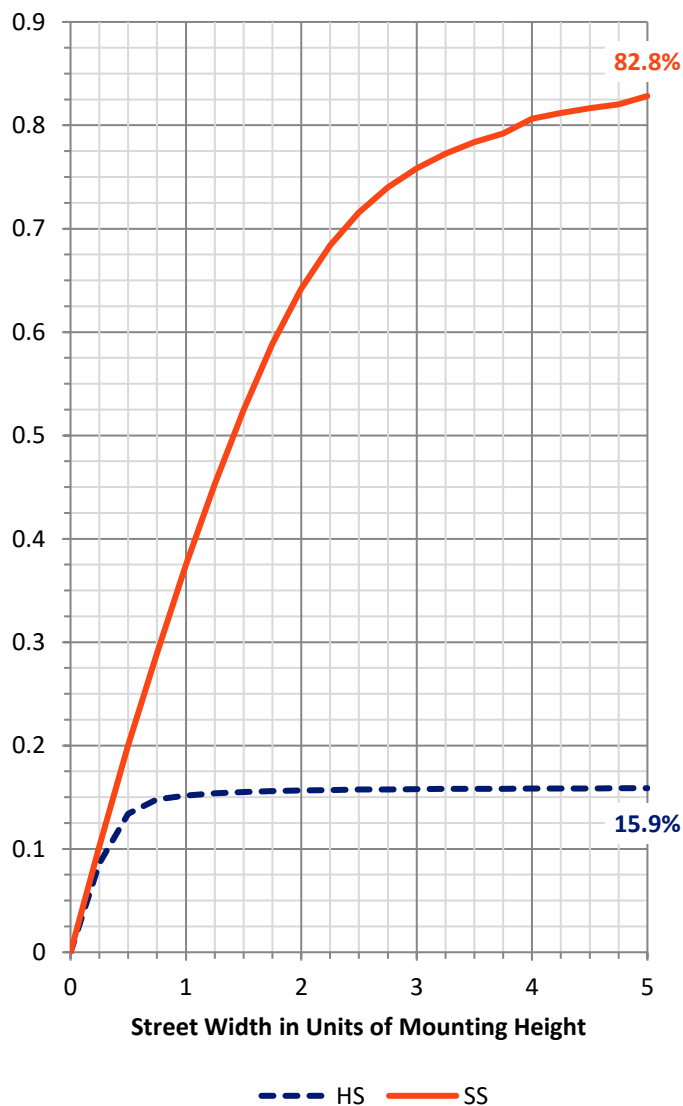
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3242.1	0.0	3242.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	16959.9	0.0	16959.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	20202.0	0.0	20202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.0
10°-20°	613.8	3.0
20°-30°	1021.1	5.1
30°-40°	1605.7	7.9
40°-50°	2780.2	13.8
50°-60°	4109.7	20.3
60°-70°	5342.9	26.4
70°-80°	3824.3	18.9
80°-90°	697.4	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°	20202.0	100.0
0°-180°	20202.0	100.0

Coefficient of Utilization



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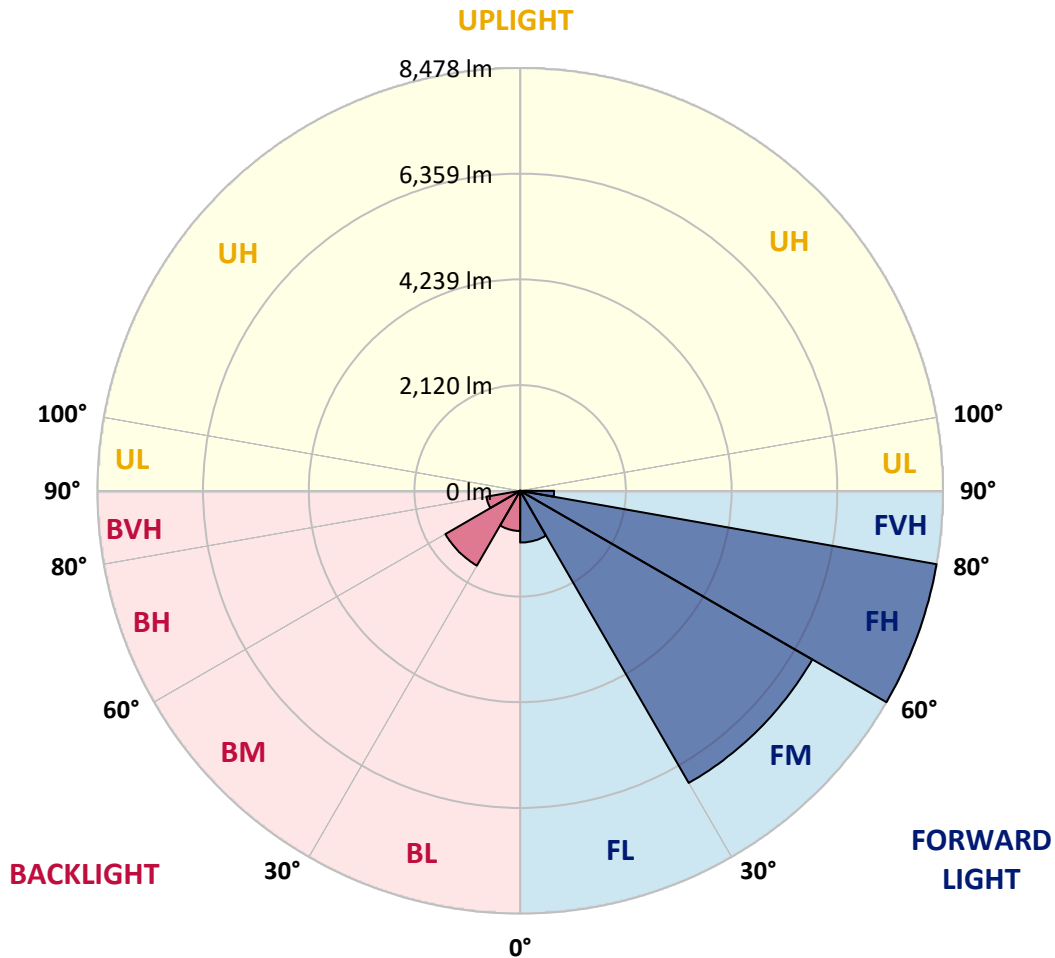
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1037.6	5.1			
FM	(30°-60°)	6763.8	33.5			
FH	(60°-80°)	8478.3	42.0			G4/12000
FVH	(80°-90°)	680.2	3.4			G4/750
BL	(0°-30°)	804.3	4.0	B2/1000		
BM	(30°-60°)	1731.9	8.6	B2/2500		
BH	(60°-80°)	688.8	3.4	B2/1000		G2/1000
BVH	(80°-90°)	17.1	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°	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8
2.5°	2275.3	2273.8	2258.8	2251.3	2230.3	2222.8	2224.3	2215.3	2194.3	2197.3	2176.3
5°	2278.3	2288.8	2266.3	2260.3	2252.8	2243.8	2254.3	2242.3	2224.3	2230.3	2207.8
7.5°	2291.8	2296.3	2285.8	2279.8	2261.8	2279.8	2278.3	2267.8	2255.8	2245.3	2236.3
10°	2296.3	2291.8	2270.8	2266.3	2266.3	2284.3	2291.8	2296.3	2296.3	2279.8	2273.8
12.5°	2273.8	2270.8	2249.8	2258.8	2278.3	2290.3	2314.3	2329.3	2353.3	2335.3	2326.3
15°	2239.3	2246.8	2255.8	2258.8	2294.8	2321.8	2344.3	2371.3	2411.8	2411.8	2408.8
17.5°	2249.8	2264.8	2275.3	2290.3	2324.8	2333.8	2365.3	2408.8	2476.3	2480.8	2488.3
20°	2302.3	2302.3	2305.3	2315.8	2345.8	2372.8	2399.8	2455.3	2533.3	2558.8	2566.3
22.5°	2359.3	2356.3	2369.8	2368.3	2392.3	2410.3	2444.8	2492.8	2590.3	2638.3	2657.8
25°	2405.8	2414.8	2426.8	2411.8	2458.3	2465.8	2492.8	2551.3	2654.8	2740.2	2782.2
27.5°	2485.3	2491.3	2488.3	2495.8	2542.3	2546.8	2572.3	2656.3	2752.2	2869.2	2960.7
30°	2621.8	2600.8	2603.8	2620.3	2687.8	2696.8	2723.7	2804.7	2881.2	3035.7	3179.7
32.5°	2809.2	2809.2	2776.2	2807.7	2885.7	2909.7	2950.2	3071.7	3146.7	3229.2	3466.2
35°	3167.7	3167.7	3143.7	3061.2	3100.2	3160.2	3235.2	3403.2	3634.2	3904.1	4156.1
37.5°	3761.7	3752.7	3658.2	3509.7	3425.7	3446.7	3520.2	3791.7	4166.6	4825.1	5018.5
40°	4471.1	4445.6	4268.6	4061.6	3847.1	3811.1	3845.6	4186.1	4720.1	5696.5	5770.0
42.5°	5101.0	5099.5	4840.1	4664.6	4390.1	4330.1	4289.6	4585.1	5275.0	6329.4	6354.9
45°	5702.5	5687.5	5435.5	5245.0	4994.5	4841.6	4831.1	5038.0	5858.5	6899.4	6791.4
47.5°	6237.9	6260.4	5978.4	5795.5	5518.0	5413.0	5329.0	5506.0	6395.4	7385.3	7161.8
50°	6854.4	6894.9	6473.4	6272.4	5991.9	5888.5	5935.0	6065.4	6930.9	7782.8	7491.8
52.5°	7632.8	7503.8	7085.3	6740.4	6479.4	6428.4	6438.9	6620.4	7550.3	8108.3	7721.3
55°	8549.2	8358.7	7938.8	7400.3	6974.4	6926.4	6921.9	7106.3	8123.3	8412.7	7898.3
57.5°	8894.2	8993.2	8828.2	8430.7	7677.8	7536.8	7427.3	7598.3	8637.7	8748.7	8084.3
60°	9690.6	9797.1	9675.6	9420.6	9165.7	8675.2	8195.2	8178.7	9117.7	9069.7	8162.2
62.5°	9779.1	9744.6	10284.6	10374.5	10526.0	10335.5	9980.1	8948.2	9551.1	9233.2	8223.7
65°	9284.1	9288.6	10013.1	10508.0	11554.9	11652.4	11431.9	10172.1	9876.6	9297.6	8180.2
67.5°	7988.3	8076.8	8736.7	9923.1	12010.9	12138.4	11952.4	11463.4	10052.1	9320.1	7991.3
70°	6864.9	6867.9	7491.8	8939.2	11770.9	11866.9	11781.4	11547.4	9984.6	9141.7	7478.3
72.5°	5402.5	5386.0	5933.5	7395.8	10923.5	11127.5	11081.0	11241.5	9737.1	8496.7	6362.4
75°	3901.1	3934.1	4489.1	5696.5	9396.6	10029.6	10254.6	10743.5	8855.2	7215.8	4664.6
77.5°	2731.2	2764.2	3296.7	4327.1	7583.3	8346.7	8708.2	9137.2	7176.8	5348.5	2390.8
80°	1786.3	1816.3	2273.8	3250.2	5653.0	6303.9	6575.4	6318.9	4214.6	2246.8	262.5
82.5°	1037.9	1096.4	1444.4	2230.3	3961.1	4270.1	4285.1	3325.2	1574.9	201.0	123.0
85°	505.5	543.0	863.9	1322.9	2167.3	2278.3	2113.3	1237.4	367.5	96.0	70.5
87.5°	75.0	99.0	340.5	499.5	367.5	301.5	181.5	42.0	24.0	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°	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8
2.5°	2164.3	2162.8	2167.3	2147.8	2149.3	2125.3	2116.3	2111.8	2132.8	2129.8	2144.8
5°	2191.3	2176.3	2174.8	2126.8	2122.3	2092.3	2074.3	2047.3	2068.3	2063.8	2063.8
7.5°	2207.8	2192.8	2183.8	2126.8	2087.8	2035.3	2005.3	1984.3	1982.8	1978.3	1979.8
10°	2234.8	2227.3	2179.3	2116.3	2063.8	1996.3	1939.3	1906.3	1891.3	1892.8	1882.3
12.5°	2294.8	2279.8	2215.3	2140.3	2056.3	1963.3	1889.8	1831.3	1801.3	1795.3	1778.8
15°	2380.3	2363.8	2282.8	2197.3	2075.8	1966.3	1856.8	1753.3	1702.3	1681.3	1666.3
17.5°	2480.8	2455.3	2362.3	2264.8	2116.3	1963.3	1825.3	1685.8	1588.4	1532.9	1528.4
20°	2560.3	2548.3	2441.8	2336.8	2141.8	1943.8	1772.8	1588.4	1442.9	1340.9	1319.9
22.5°	2665.3	2666.8	2548.3	2390.8	2162.8	1910.8	1690.3	1451.9	1253.9	1117.4	1093.4
25°	2816.7	2794.2	2660.8	2434.3	2167.3	1873.3	1577.9	1280.9	1022.9	869.9	842.9
27.5°	2998.2	2965.2	2752.2	2456.8	2147.8	1798.3	1427.9	1057.4	755.9	623.9	602.9
30°	3190.2	3112.2	2827.2	2465.8	2087.8	1676.8	1214.9	772.4	535.5	442.5	433.5
32.5°	3436.2	3322.2	2891.7	2435.8	1996.3	1492.4	941.9	529.5	370.5	321.0	324.0
35°	3940.1	3661.2	2992.2	2402.8	1867.3	1261.4	658.4	351.0	286.5	280.5	282.0
37.5°	4702.1	4259.6	3169.2	2354.8	1675.3	964.4	423.0	271.5	273.0	273.0	273.0
40°	5438.5	4913.5	3440.7	2260.3	1439.9	674.9	279.0	256.5	264.0	262.5	264.0
42.5°	5963.5	5399.5	3725.7	2144.8	1168.4	427.5	250.5	241.5	246.0	244.5	249.0
45°	6389.4	5816.5	3985.1	1981.3	874.4	279.0	246.0	229.5	225.0	223.5	228.0
47.5°	6704.4	6090.9	4171.1	1777.3	583.4	240.0	235.5	211.5	205.5	205.5	207.0
50°	7010.4	6354.9	4226.6	1544.9	360.0	234.0	222.0	196.5	187.5	184.5	187.5
52.5°	7223.3	6444.9	4238.6	1282.4	241.5	228.0	205.5	178.5	168.0	166.5	168.0
55°	7404.8	6629.4	4141.1	955.4	216.0	214.5	190.5	160.5	148.5	154.5	157.5
57.5°	7449.8	6647.4	3946.1	631.4	214.5	196.5	174.0	144.0	135.0	141.0	142.5
60°	7563.8	6573.9	3703.2	388.5	210.0	175.5	154.5	127.5	121.5	123.0	126.0
62.5°	7466.3	6533.4	3287.7	271.5	193.5	160.5	144.0	117.0	106.5	105.0	105.0
65°	7367.3	6294.9	2513.8	225.0	172.5	150.0	130.5	103.5	91.5	85.5	85.5
67.5°	7052.4	5761.0	1435.4	208.5	156.0	138.0	118.5	94.5	79.5	72.0	69.0
70°	6258.9	4615.1	442.5	190.5	157.5	129.0	109.5	82.5	69.0	58.5	57.0
72.5°	4901.5	2885.7	207.0	168.0	162.0	120.0	102.0	76.5	61.5	49.5	48.0
75°	2884.2	691.4	169.5	124.5	138.0	127.5	100.5	73.5	54.0	40.5	39.0
77.5°	626.9	168.0	151.5	84.0	103.5	123.0	96.0	64.5	48.0	31.5	30.0
80°	151.5	132.0	138.0	64.5	69.0	85.5	78.0	55.5	43.5	25.5	24.0
82.5°	102.0	99.0	121.5	40.5	34.5	31.5	33.0	34.5	36.0	19.5	18.0
85°	67.5	85.5	64.5	22.5	19.5	16.5	16.5	15.0	21.0	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)