

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: P509462

Luminaire Tested: **VERD-G-CA2-100-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-740-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13979 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

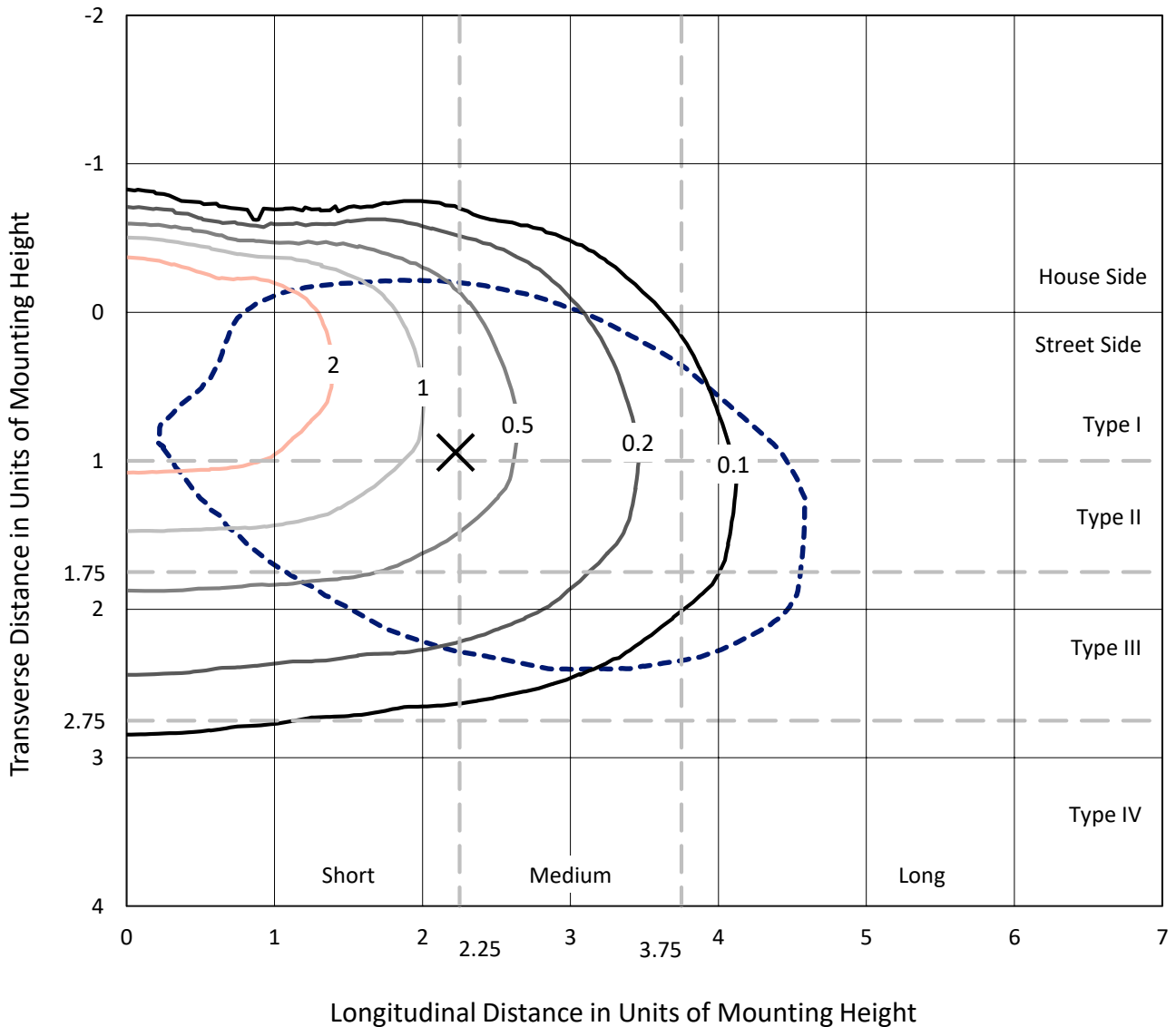
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

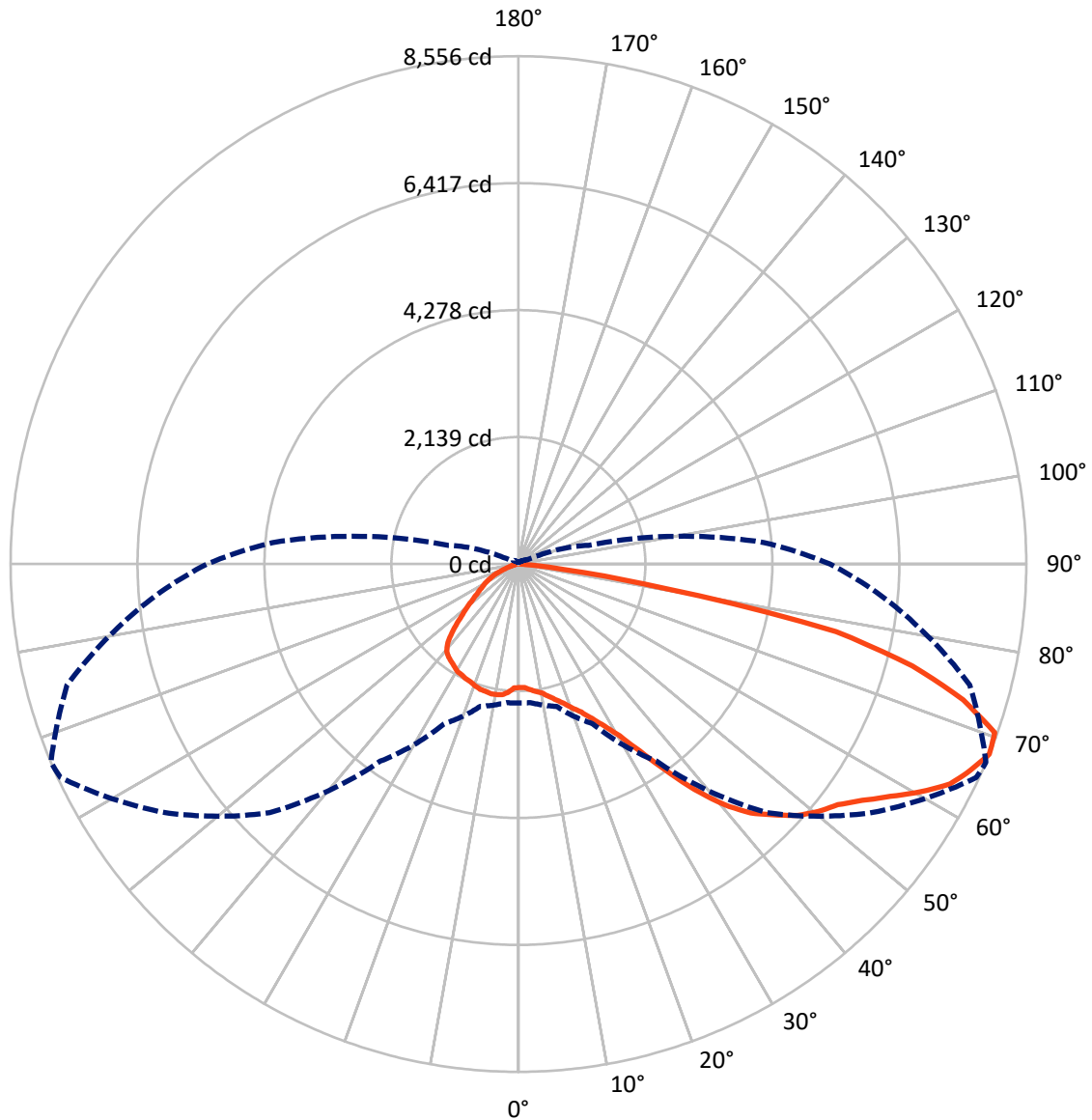
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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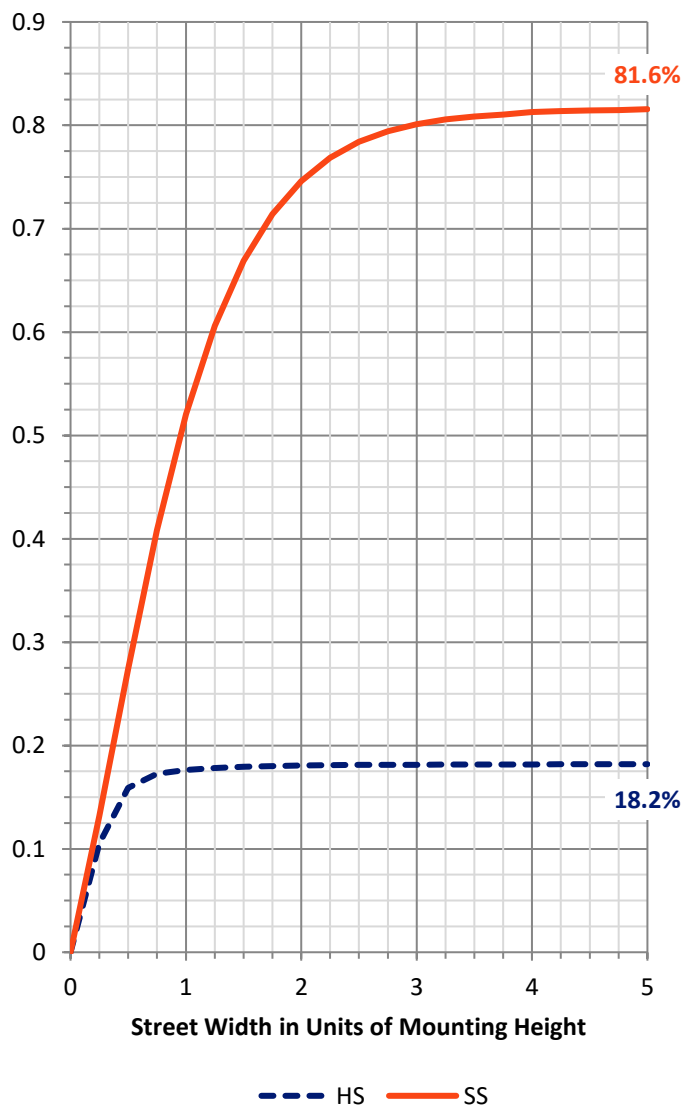
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.0	0.0	2573.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11406.0	0.0	11406.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	13979.0	0.0	13979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.5
10°-20°	654.3	4.7
20°-30°	1115.6	8.0
30°-40°	1701.5	12.2
40°-50°	2398.6	17.2
50°-60°	2899.3	20.7
60°-70°	3053.4	21.8
70°-80°	1816.4	13.0
80°-90°	130.6	0.9
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°	13979.0	100.0
0°-180°	13979.0	100.0

Coefficient of Utilization



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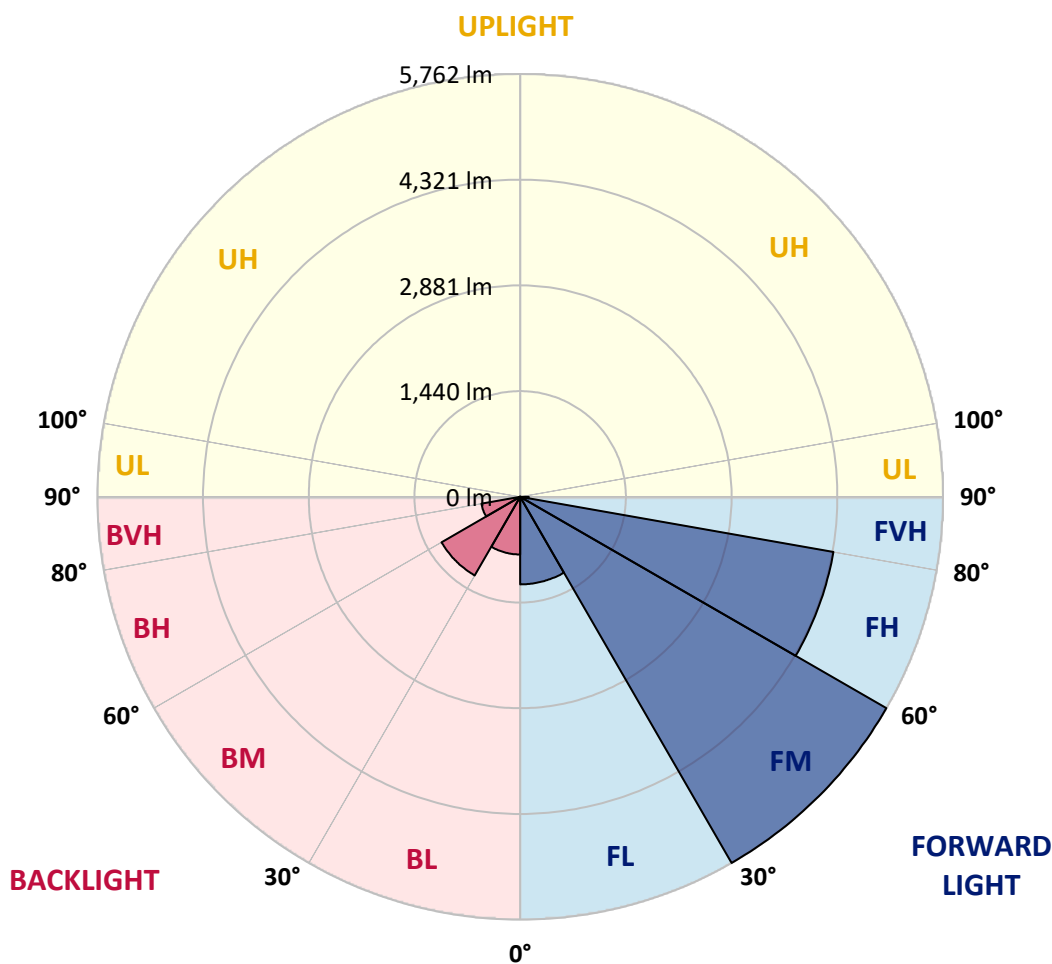
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1193.4	8.5			
FM (30°-60°)	5761.5	41.2			
FH (60°-80°)	4334.2	31.0			G2/5000
FVH (80°-90°)	116.9	0.8			G2/225
BL (0°-30°)	785.8	5.6	B2/1000		
BM (30°-60°)	1237.9	8.9	B2/2500		
BH (60°-80°)	535.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0
2.5°	2125.0	2133.0	2117.0	2113.0	2092.0	2095.0	2091.0	2081.0	2085.0	2077.0	2082.0
5°	2207.0	2186.0	2180.0	2168.0	2149.0	2138.0	2122.0	2117.0	2128.0	2119.0	2121.0
7.5°	2294.0	2298.0	2271.0	2248.0	2214.0	2206.0	2178.0	2161.0	2172.0	2160.0	2167.0
10°	2403.0	2409.0	2380.0	2349.0	2320.0	2278.0	2243.0	2216.0	2213.0	2207.0	2217.0
12.5°	2546.0	2545.0	2513.0	2475.0	2418.0	2389.0	2322.0	2284.0	2289.0	2267.0	2265.0
15°	2712.0	2698.0	2661.0	2622.0	2551.0	2494.0	2413.0	2366.0	2374.0	2349.0	2343.0
17.5°	2874.0	2860.0	2831.0	2788.0	2723.0	2635.0	2536.0	2468.0	2466.0	2454.0	2418.0
20°	3040.0	3046.0	3007.0	2968.0	2903.0	2785.0	2673.0	2585.0	2587.0	2566.0	2496.0
22.5°	3234.0	3223.0	3176.0	3158.0	3084.0	2955.0	2830.0	2729.0	2709.0	2705.0	2584.0
25°	3419.1	3412.1	3369.1	3348.1	3286.0	3168.0	3006.0	2885.0	2882.0	2869.0	2698.0
27.5°	3566.1	3574.1	3570.1	3555.1	3487.1	3371.1	3229.0	3084.0	3086.0	3067.0	2846.0
30°	3775.1	3751.1	3742.1	3754.1	3748.1	3623.1	3472.1	3367.1	3360.1	3311.1	3033.0
32.5°	3897.1	3909.1	3921.1	3963.1	3964.1	3871.1	3773.1	3723.1	3751.1	3759.1	3498.1
35°	4009.1	4009.1	4078.1	4184.1	4221.1	4189.1	4147.1	4210.1	4265.1	4376.1	4070.1
37.5°	4109.1	4138.1	4203.1	4336.1	4457.1	4488.1	4580.1	4753.1	4820.1	4921.1	4552.1
40°	4193.1	4214.1	4297.1	4460.1	4668.1	4810.1	4982.1	5257.1	5327.1	5308.1	4820.1
42.5°	4100.1	4134.1	4267.1	4602.1	4864.1	5131.1	5356.1	5653.1	5738.1	5562.1	5102.1
45°	4050.1	4063.1	4202.1	4582.1	5008.1	5456.1	5711.1	6029.1	6029.1	5832.1	5301.1
47.5°	3950.1	3973.1	4138.1	4556.1	5161.1	5727.1	5985.1	6309.1	6330.1	6087.1	5499.1
50°	3849.1	3878.1	4065.1	4510.1	5247.1	5999.1	6218.1	6543.1	6551.1	6262.1	5674.1
52.5°	3749.1	3764.1	3973.1	4480.1	5342.1	6139.1	6419.1	6733.1	6737.1	6524.1	5867.1
55°	3570.1	3607.1	3823.1	4370.1	5337.1	6203.1	6524.1	6987.1	7026.1	6809.1	6057.1
57.5°	3402.1	3413.1	3649.1	4211.1	5256.1	6277.1	6750.1	7351.1	7389.1	7068.1	6198.1
60°	3178.0	3190.0	3444.1	4022.1	5136.1	6351.1	7037.1	7776.1	7793.1	7340.1	6304.1
62.5°	2944.0	2985.0	3194.0	3732.1	4887.1	6364.1	7280.1	8168.1	8161.1	7576.1	6374.1
65°	2669.0	2684.0	2885.0	3393.1	4506.1	6265.1	7380.1	8358.1	8375.1	7742.1	6328.1
67.5°	2339.0	2345.0	2483.0	2971.0	4055.1	5924.1	7297.1	8513.1	8556.1	7872.1	6136.1
70°	1848.0	1857.0	1984.0	2448.0	3415.1	5402.1	7157.1	8531.1	8513.1	7755.1	5844.1
72.5°	1288.0	1275.0	1399.0	1717.0	2586.0	4443.1	6481.1	7805.1	7837.1	7175.1	5233.1
75°	617.0	621.0	867.0	1056.0	1452.0	3174.0	5394.1	6721.1	6855.1	6253.1	4263.1
77.5°	105.0	107.0	229.0	416.0	585.0	1332.0	3577.1	5353.1	5467.1	4908.1	2886.0
80°	84.0	84.0	112.0	224.0	310.0	552.0	1355.0	2373.0	2497.0	2223.0	1064.0
82.5°	57.0	60.0	80.0	131.0	110.0	216.0	492.0	751.0	771.0	699.0	437.0
85°	32.0	33.0	41.0	53.0	46.0	80.0	101.0	103.0	109.0	85.0	65.0
87.5°	4.0	9.0	9.0	9.0	4.0	4.0	3.0	3.0	4.0	3.0	3.0
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°	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0
2.5°	2079.0	2067.0	2093.0	2088.0	2106.0	2103.0	2118.0	2126.0	2143.0	2165.0	2163.0
5°	2123.0	2122.0	2153.0	2168.0	2184.0	2199.0	2200.0	2215.0	2230.0	2263.0	2262.0
7.5°	2165.0	2174.0	2218.0	2219.0	2225.0	2236.0	2221.0	2226.0	2230.0	2242.0	2246.0
10°	2214.0	2231.0	2232.0	2228.0	2209.0	2208.0	2174.0	2178.0	2160.0	2174.0	2167.0
12.5°	2277.0	2263.0	2255.0	2228.0	2199.0	2160.0	2128.0	2084.0	2074.0	2074.0	2077.0
15°	2339.0	2318.0	2249.0	2206.0	2153.0	2091.0	2039.0	1989.0	1964.0	1953.0	1951.0
17.5°	2393.0	2349.0	2251.0	2195.0	2095.0	2004.0	1926.0	1846.0	1807.0	1782.0	1778.0
20°	2437.0	2390.0	2257.0	2159.0	2032.0	1898.0	1780.0	1679.0	1602.0	1545.0	1551.0
22.5°	2511.0	2436.0	2253.0	2116.0	1959.0	1785.0	1607.0	1468.0	1339.0	1307.0	1316.0
25°	2600.0	2502.0	2276.0	2090.0	1874.0	1643.0	1409.0	1248.0	1110.0	1066.0	1069.0
27.5°	2703.0	2582.0	2302.0	2047.0	1786.0	1468.0	1186.0	987.0	877.0	790.0	783.0
30°	2867.0	2691.0	2330.0	2019.0	1663.0	1273.0	943.0	736.0	598.0	551.0	551.0
32.5°	3252.0	2912.0	2375.0	1952.0	1501.0	1055.0	688.0	482.0	360.0	318.0	319.0
35°	3741.1	3358.1	2477.0	1870.0	1310.0	800.0	425.0	268.0	211.0	190.0	188.0
37.5°	4208.1	3768.1	2695.0	1774.0	1069.0	507.0	239.0	165.0	144.0	143.0	144.0
40°	4496.1	4092.1	2914.0	1646.0	781.0	279.0	155.0	135.0	132.0	129.0	129.0
42.5°	4762.1	4315.1	3080.0	1450.0	466.0	169.0	136.0	123.0	121.0	116.0	116.0
45°	4978.1	4475.1	3093.0	1189.0	247.0	150.0	125.0	112.0	108.0	105.0	104.0
47.5°	5183.1	4631.1	3046.0	911.0	176.0	139.0	117.0	103.0	98.0	100.0	99.0
50°	5321.1	4787.1	2918.0	716.0	168.0	129.0	108.0	94.0	92.0	96.0	95.0
52.5°	5470.1	4915.1	2669.0	557.0	156.0	119.0	99.0	88.0	84.0	87.0	88.0
55°	5588.1	4913.1	2486.0	435.0	148.0	111.0	93.0	83.0	76.0	76.0	75.0
57.5°	5646.1	4866.1	2339.0	342.0	139.0	103.0	87.0	73.0	65.0	63.0	62.0
60°	5643.1	4820.1	2168.0	281.0	130.0	94.0	78.0	62.0	54.0	50.0	50.0
62.5°	5611.1	4712.1	1897.0	242.0	121.0	87.0	65.0	51.0	45.0	41.0	42.0
65°	5529.1	4504.1	1564.0	206.0	112.0	84.0	55.0	45.0	39.0	35.0	35.0
67.5°	5245.1	4155.1	1220.0	173.0	103.0	70.0	48.0	38.0	33.0	29.0	29.0
70°	4843.1	3623.1	803.0	146.0	92.0	61.0	43.0	33.0	28.0	24.0	23.0
72.5°	4128.1	2895.0	408.0	125.0	79.0	54.0	38.0	29.0	24.0	20.0	19.0
75°	3166.0	1950.0	254.0	100.0	62.0	48.0	34.0	26.0	20.0	15.0	14.0
77.5°	1888.0	785.0	180.0	70.0	42.0	38.0	28.0	21.0	16.0	11.0	11.0
80°	596.0	347.0	122.0	48.0	27.0	26.0	21.0	15.0	11.0	8.0	8.0
82.5°	337.0	220.0	82.0	32.0	19.0	17.0	12.0	9.0	7.0	6.0	6.0
85°	56.0	44.0	25.0	12.0	9.0	8.0	5.0	3.0	2.0	1.0	2.0
87.5°	3.0	3.0	4.0	4.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0
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)