

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: P509068

Luminaire Tested: **VERD-CA2-100-730-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-100-730-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12453 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

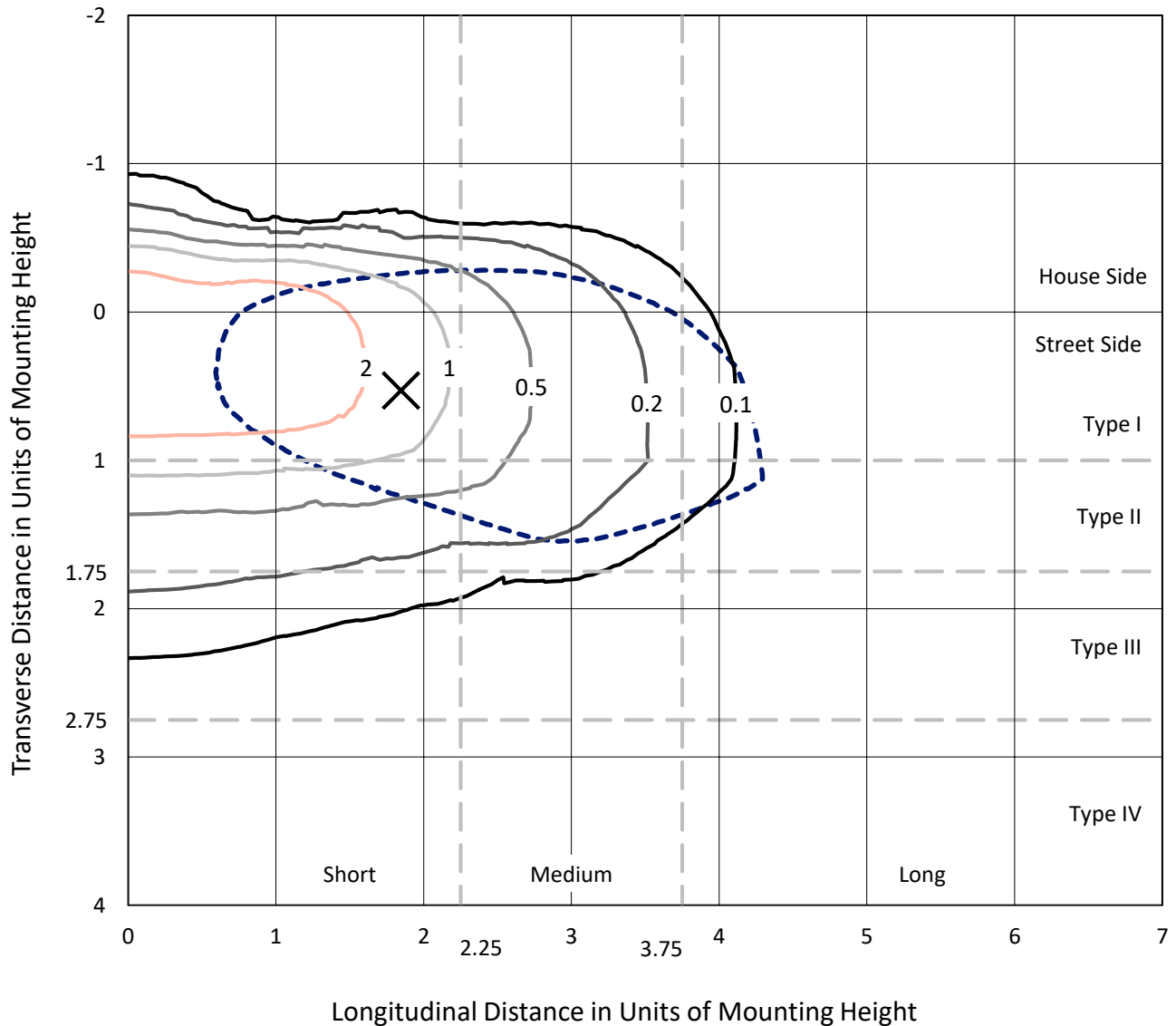
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

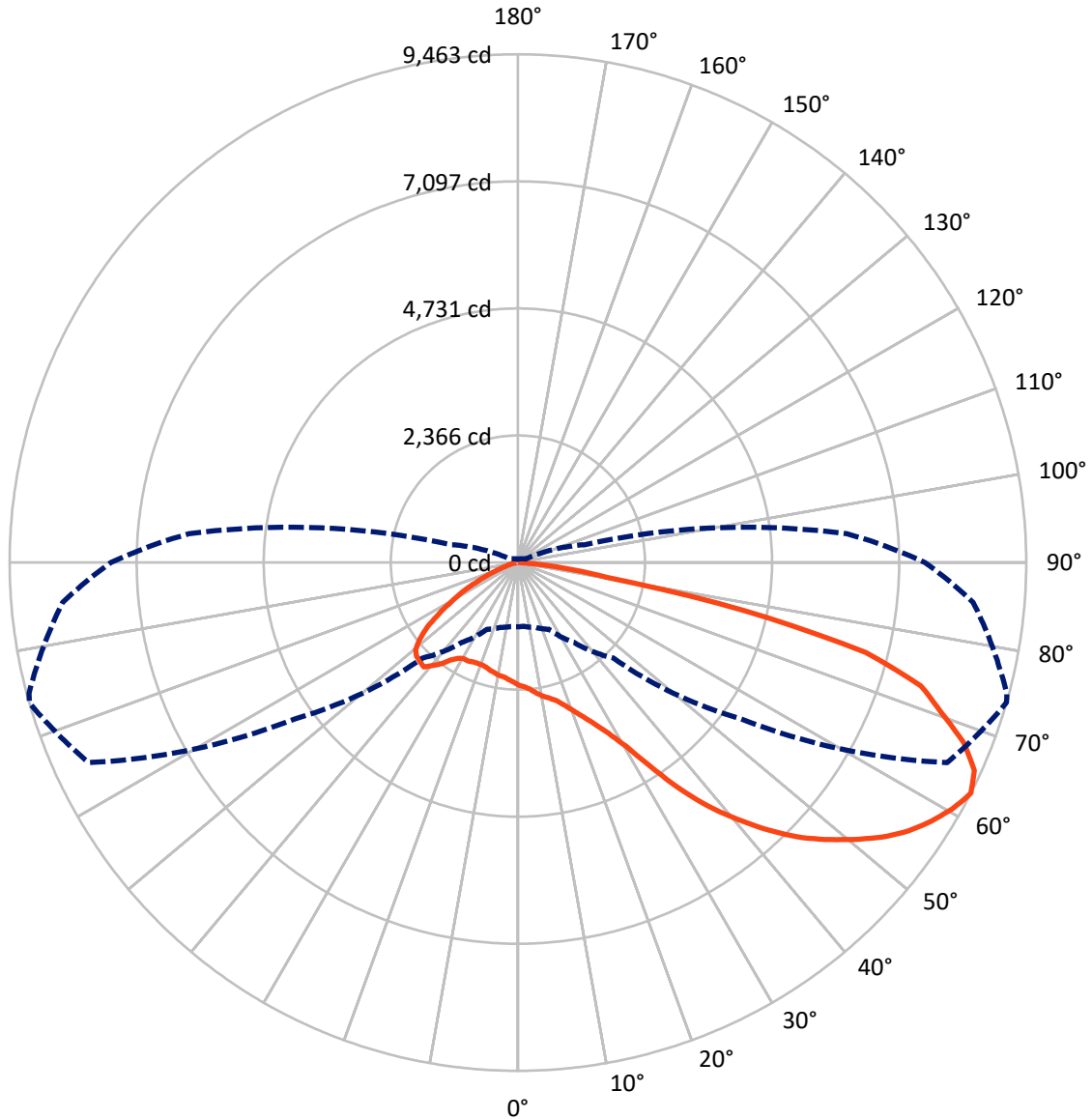
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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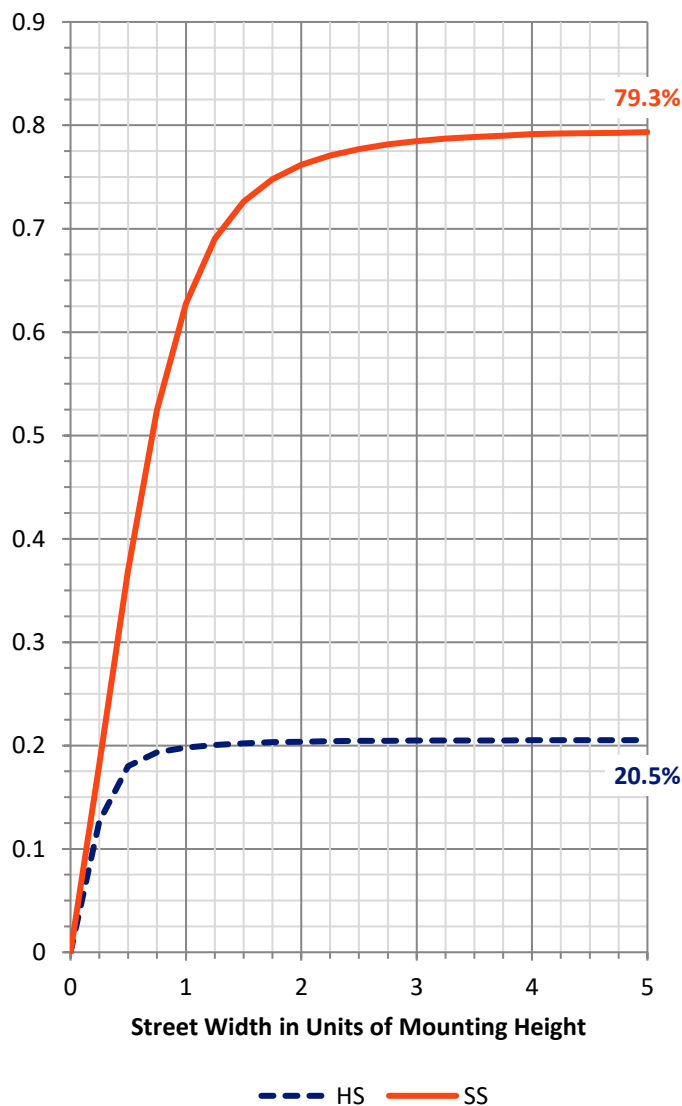
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2585.9	0.0	2585.9
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	9867.1	0.0	9867.1
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	12453.0	0.0	12453.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.6	1.7
10°-20°	657.3	5.3
20°-30°	1109.7	8.9
30°-40°	1650.5	13.3
40°-50°	2233.9	17.9
50°-60°	2570.0	20.6
60°-70°	2480.7	19.9
70°-80°	1404.5	11.3
80°-90°	128.8	1.0
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°	12453.0	100.0
0°-180°	12453.0	100.0

**Coefficient of Utilization**



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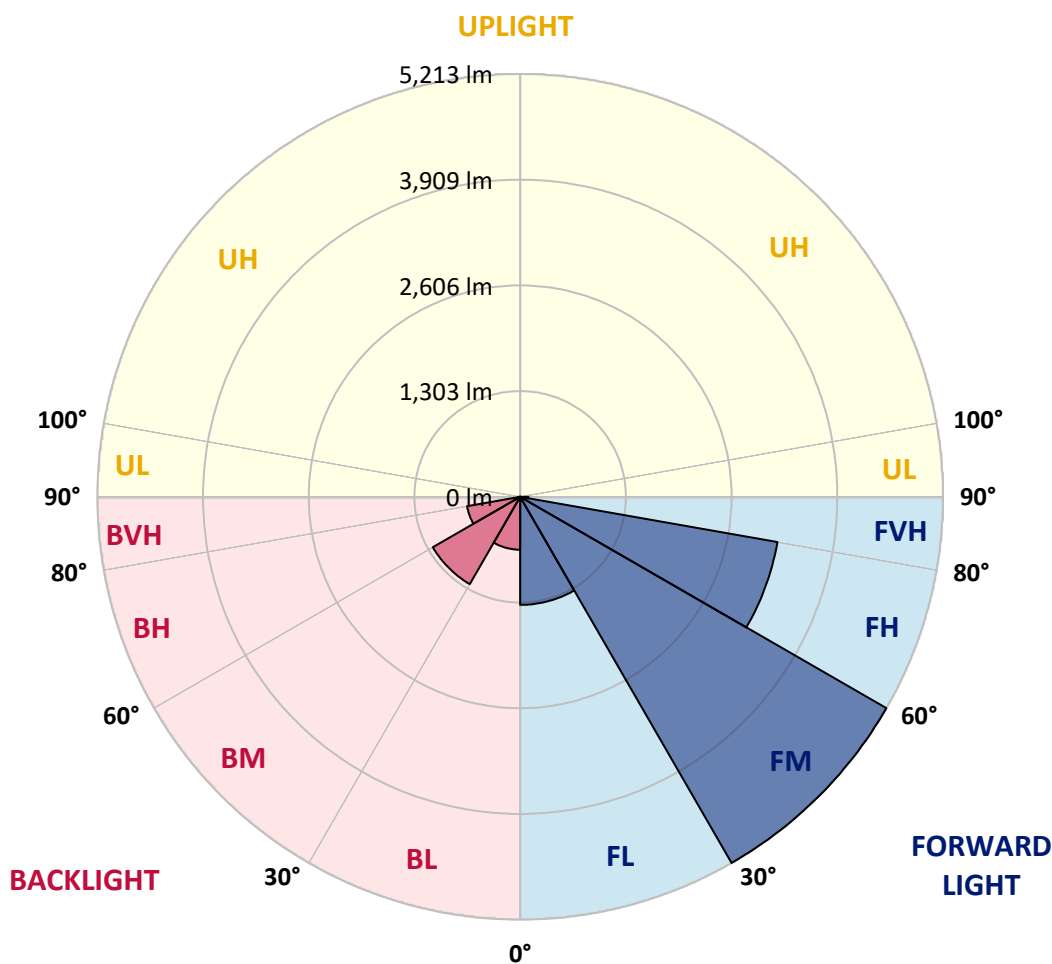
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.5	10.7			
FM (30°-60°)	5212.6	41.9			
FH (60°-80°)	3220.5	25.9			G2/5000
FVH (80°-90°)	101.5	0.8			G2/225
BL (0°-30°)	652.0	5.2	B2/1000		
BM (30°-60°)	1241.8	10.0	B2/2500		
BH (60°-80°)	664.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	27.3	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6
2.5°	2488.9	2472.5	2459.2	2451.8	2431.0	2413.2	2377.6	2340.5	2315.2	2313.7	2290.0
5°	2592.8	2591.3	2561.6	2555.7	2527.5	2518.5	2482.9	2429.5	2367.2	2359.7	2295.9
7.5°	2729.3	2713.0	2680.3	2667.0	2634.3	2610.6	2563.1	2512.6	2450.3	2442.9	2331.5
10°	2861.4	2852.5	2833.2	2834.7	2788.7	2744.1	2672.9	2586.8	2527.5	2518.5	2382.0
12.5°	3014.2	2986.0	2953.4	2935.6	2889.6	2861.4	2793.1	2680.3	2586.8	2577.9	2441.4
15°	3119.6	3104.8	3075.1	3063.2	3018.7	2972.7	2894.0	2806.5	2665.5	2656.6	2502.2
17.5°	3232.4	3225.0	3190.9	3183.4	3140.4	3085.5	3024.6	2910.4	2787.2	2772.3	2574.9
20°	3308.1	3294.7	3290.3	3288.8	3276.9	3242.8	3165.6	3076.6	2940.0	2913.3	2668.4
22.5°	3409.0	3395.7	3401.6	3407.5	3423.9	3409.0	3358.6	3253.2	3118.1	3094.4	2815.4
25°	3419.4	3410.5	3450.6	3533.7	3566.3	3582.7	3544.1	3462.4	3331.8	3300.7	2990.5
27.5°	3447.6	3434.2	3477.3	3564.9	3711.8	3737.0	3744.4	3705.8	3596.0	3578.2	3228.0
30°	3397.1	3388.2	3455.0	3604.9	3769.7	3912.1	3967.0	4020.5	3970.0	3938.8	3558.9
32.5°	3274.0	3279.9	3367.5	3566.3	3870.6	4090.2	4232.7	4421.2	4511.7	4505.8	4145.1
35°	3094.4	3091.4	3238.3	3518.8	3879.5	4257.9	4523.6	4906.5	5160.3	5142.5	4761.0
37.5°	2941.5	2934.1	3100.3	3398.6	3886.9	4391.5	4864.9	5436.3	5758.4	5740.6	5264.2
40°	2754.5	2766.4	2914.8	3259.1	3824.6	4490.9	5161.8	5951.3	6280.8	6280.8	5785.1
42.5°	2566.0	2576.4	2723.4	3064.7	3734.0	4563.7	5440.8	6464.8	6800.2	6807.6	6142.8
45°	2401.3	2405.8	2539.3	2846.5	3570.8	4575.5	5697.5	6979.8	7287.0	7267.7	6550.9
47.5°	2111.9	2160.9	2370.1	2650.6	3348.2	4523.6	5914.2	7438.4	7705.5	7665.5	6939.7
50°	1683.0	1683.0	1972.4	2463.6	3092.9	4385.6	6084.9	7856.9	8103.3	8066.2	7279.6
52.5°	1546.5	1549.4	1638.5	2200.9	2834.7	4148.1	6182.8	8272.5	8493.6	8468.4	7601.7
55°	1473.7	1478.2	1519.7	1783.9	2600.2	3784.5	6185.8	8594.5	8824.6	8768.2	7873.2
57.5°	1363.9	1356.5	1444.0	1589.5	2325.6	3315.5	6040.4	8843.9	9081.3	9038.3	8095.9
60°	1286.7	1274.9	1334.2	1464.8	2030.3	2830.2	5653.0	9024.9	9301.0	9326.2	8314.0
62.5°	1196.2	1191.7	1248.1	1371.3	1812.1	2512.6	5071.2	8814.2	9462.7	9422.7	8507.0
65°	1105.7	1096.8	1150.2	1246.7	1601.4	2252.9	4485.0	8502.5	9338.1	9373.7	8545.5
67.5°	986.9	985.5	1035.9	1107.2	1371.3	1962.0	3636.1	8092.9	8952.2	8927.0	8195.3
70°	843.0	843.0	893.4	955.8	1145.7	1674.1	2791.6	7390.9	8358.6	8505.5	7595.7
72.5°	681.2	684.2	734.6	805.9	945.4	1363.9	2058.5	6427.7	7843.6	7607.6	6749.8
75°	363.6	326.5	575.8	648.6	762.8	1087.9	1408.4	4179.3	6688.9	6525.7	5599.6
77.5°	87.6	92.0	181.1	336.9	406.6	602.6	693.1	1935.3	4312.8	4572.6	3993.8
80°	57.9	63.8	98.0	238.9	271.6	320.6	274.6	843.0	1672.6	1782.4	2318.2
82.5°	29.7	32.7	60.8	95.0	96.5	83.1	103.9	424.5	884.5	958.7	1114.6
85°	10.4	16.3	31.2	41.6	38.6	31.2	25.2	105.4	209.3	233.0	241.9
87.5°	0.0	0.0	4.5	4.5	3.0	3.0	4.5	4.5	5.9	4.5	4.5
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°	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6	2282.6
2.5°	2270.7	2254.4	2229.1	2202.4	2174.2	2150.5	2137.1	2144.6	2153.5	2125.3	2114.9
5°	2266.2	2238.0	2190.6	2134.2	2091.1	2048.1	1997.6	1985.7	1973.9	1959.0	1942.7
7.5°	2287.0	2245.5	2149.0	2097.1	2006.5	1926.4	1881.9	1849.2	1819.5	1792.8	1776.5
10°	2325.6	2248.4	2140.1	2034.7	1935.3	1837.3	1740.9	1721.6	1715.6	1677.1	1648.9
12.5°	2350.8	2255.9	2108.9	1981.3	1838.8	1733.4	1637.0	1582.1	1577.6	1559.8	1540.5
15°	2390.9	2285.5	2088.2	1914.5	1740.9	1629.6	1540.5	1469.3	1433.7	1432.2	1417.3
17.5°	2463.6	2319.7	2055.5	1846.2	1662.2	1537.5	1409.9	1383.2	1323.8	1289.7	1280.8
20°	2537.8	2370.1	2046.6	1778.0	1559.8	1405.5	1307.5	1233.3	1185.8	1150.2	1127.9
22.5°	2634.3	2442.9	2049.6	1737.9	1476.7	1306.0	1178.4	1068.6	981.0	938.0	917.2
25°	2773.8	2527.5	2071.8	1677.1	1378.7	1199.2	1013.7	868.2	745.0	713.9	699.0
27.5°	2951.9	2646.2	2103.0	1614.7	1288.2	1055.2	814.8	651.5	549.1	525.4	510.5
30°	3225.0	2824.3	2107.4	1576.1	1206.6	868.2	610.0	482.3	402.2	377.0	379.9
32.5°	3738.5	3205.7	2166.8	1496.0	1061.1	666.4	448.2	351.7	290.9	282.0	296.8
35°	4335.1	3655.4	2281.1	1454.4	894.9	482.3	320.6	258.2	219.6	231.5	237.5
37.5°	4719.5	4051.6	2463.6	1359.5	700.5	354.7	224.1	201.8	194.4	201.8	215.2
40°	5167.7	4373.7	2619.5	1263.0	497.2	243.4	179.6	184.0	175.1	173.6	179.6
42.5°	5531.3	4704.7	2785.7	1104.2	345.8	181.1	164.7	167.7	161.8	154.3	154.3
45°	5877.1	4991.1	2784.2	890.5	228.6	160.3	151.4	157.3	155.8	145.4	144.0
47.5°	6179.9	5280.5	2785.7	647.1	173.6	146.9	141.0	146.9	146.9	138.0	136.5
50°	6555.3	5520.9	2741.2	414.1	158.8	136.5	135.1	133.6	139.5	127.6	124.7
52.5°	6785.4	5696.0	2540.8	279.0	146.9	129.1	126.2	123.2	126.2	115.8	115.8
55°	7037.7	5914.2	2279.6	221.1	139.5	120.2	118.7	115.8	115.8	103.9	105.4
57.5°	7312.2	6092.3	1927.9	194.4	133.6	114.3	111.3	106.9	100.9	92.0	90.5
60°	7511.1	6129.4	1577.6	176.6	129.1	111.3	99.4	93.5	83.1	77.2	75.7
62.5°	7577.9	6148.7	1279.3	158.8	121.7	102.4	89.0	78.7	66.8	62.3	62.3
65°	7523.0	5926.1	958.7	144.0	112.8	95.0	78.7	63.8	51.9	47.5	46.0
67.5°	7169.8	5516.5	697.5	129.1	99.4	86.1	68.3	51.9	41.6	37.1	37.1
70°	6527.1	5034.1	471.9	108.3	86.1	75.7	63.8	41.6	34.1	29.7	28.2
72.5°	5826.6	4268.3	301.3	87.6	66.8	59.4	46.0	35.6	28.2	22.3	22.3
75°	4608.2	3352.6	209.3	63.8	47.5	44.5	35.6	29.7	23.7	17.8	17.8
77.5°	3207.2	2178.7	164.7	49.0	32.7	29.7	26.7	22.3	19.3	14.8	13.4
80°	1859.6	1310.5	99.4	32.7	22.3	19.3	17.8	17.8	14.8	10.4	10.4
82.5°	923.1	546.2	43.0	20.8	14.8	13.4	11.9	10.4	10.4	7.4	7.4
85°	181.1	93.5	16.3	10.4	7.4	7.4	5.9	5.9	4.5	3.0	3.0
87.5°	5.9	4.5	4.5	4.5	3.0	3.0	1.5	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)