

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: P509092

Luminaire Tested: **VERD-CA2-100-760-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509092  
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-CA2-100-760-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12642 lumens  
Efficiency: N/A  
Efficacy: 122.3 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

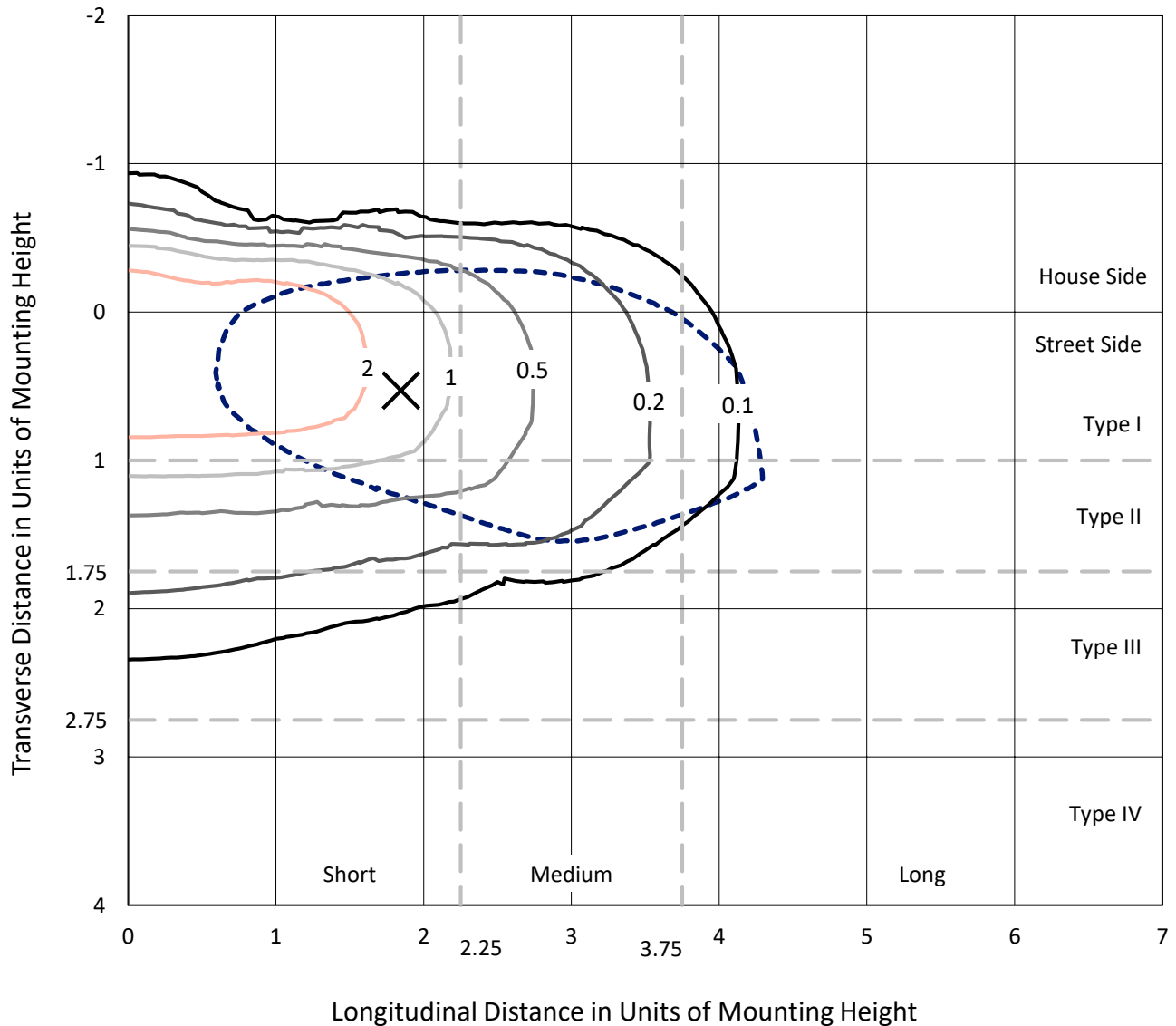
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

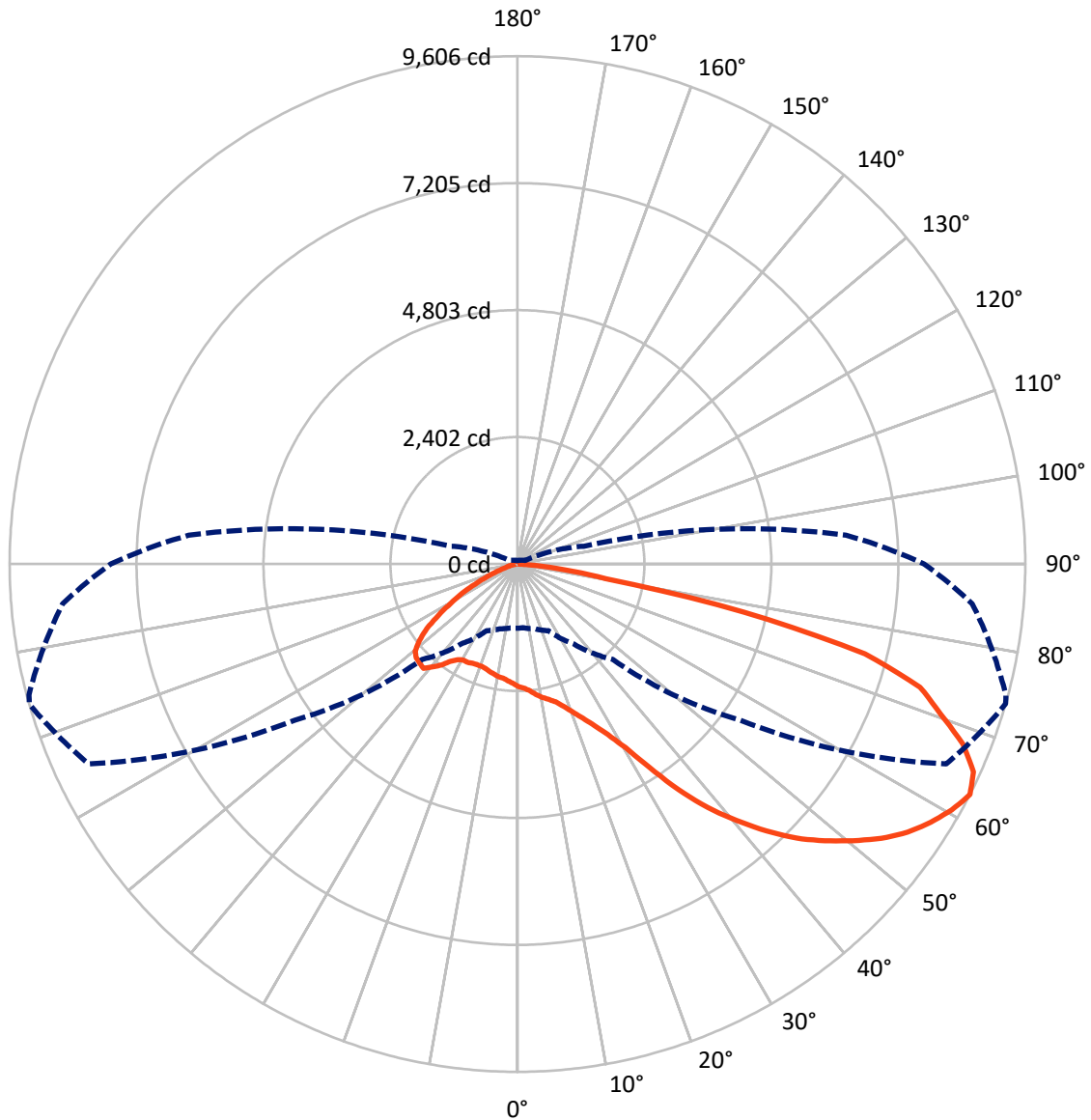
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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 CATALOG NUMBER: VERD-CA2-100-760-U-T2-HSS

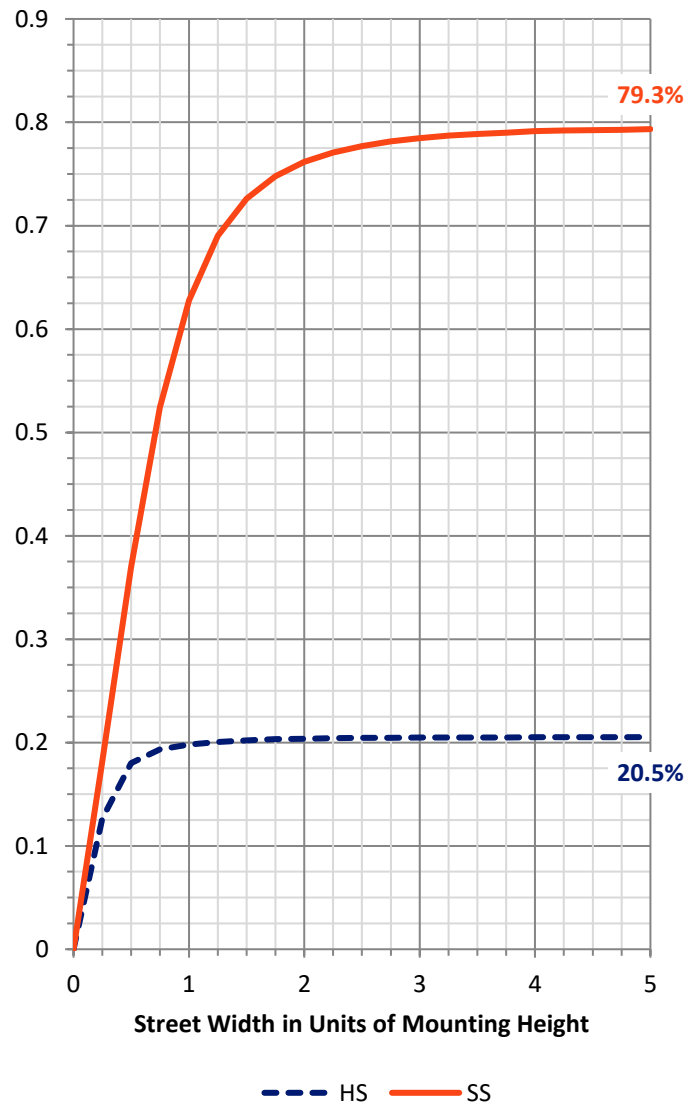
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2625.2	0.0	2625.2
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	10016.8	0.0	10016.8
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	12642.0	0.0	12642.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.9	1.7
10°-20°	667.2	5.3
20°-30°	1126.5	8.9
30°-40°	1675.5	13.3
40°-50°	2267.8	17.9
50°-60°	2609.0	20.6
60°-70°	2518.4	19.9
70°-80°	1425.8	11.3
80°-90°	130.8	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°	12642.0	100.0
0°-180°	12642.0	100.0



REPORT NUMBER: P509092

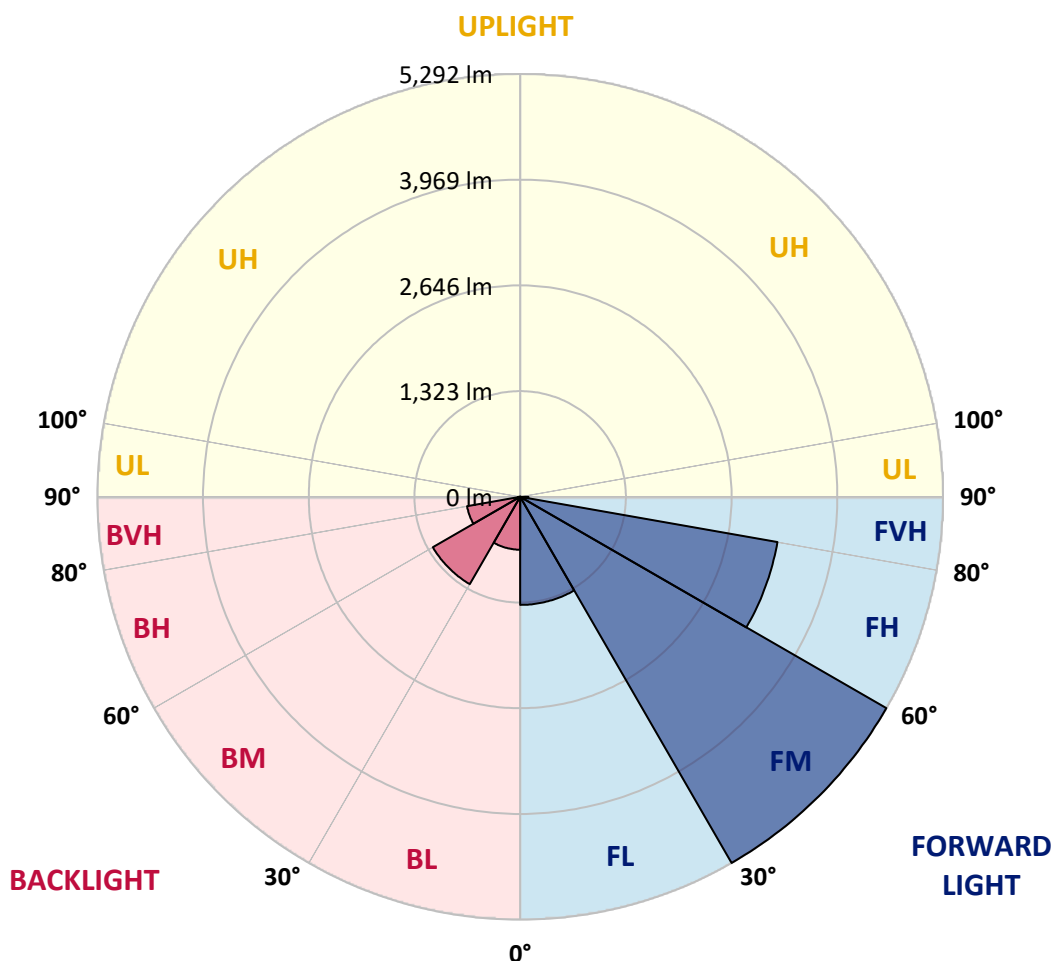
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1352.7	10.7			
FM	(30°-60°)	5291.7	41.9			
FH	(60°-80°)	3269.4	25.9			G2/5000
FVH	(80°-90°)	103.1	0.8			G2/225
BL	(0°-30°)	661.9	5.2	B2/1000		
BM	(30°-60°)	1260.6	10.0	B2/2500		
BH	(60°-80°)	674.9	5.3	B2/1000		G2/1000
BVH	(80°-90°)	27.7	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°	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2526.6	2510.1	2496.5	2489.0	2467.9	2449.8	2413.6	2376.0	2350.4	2348.9	2324.7
5°	2632.1	2630.6	2600.5	2594.4	2565.8	2556.8	2520.6	2466.4	2403.1	2395.6	2330.8
7.5°	2770.7	2754.1	2721.0	2707.4	2674.3	2650.2	2602.0	2550.7	2487.5	2479.9	2366.9
10°	2904.8	2895.8	2876.2	2877.7	2831.0	2785.8	2713.5	2626.1	2565.8	2556.8	2418.2
12.5°	3060.0	3031.4	2998.2	2980.1	2933.4	2904.8	2835.5	2721.0	2626.1	2617.0	2478.4
15°	3167.0	3151.9	3121.8	3109.7	3064.5	3017.8	2938.0	2849.1	2705.9	2696.9	2540.2
17.5°	3281.5	3273.9	3239.3	3231.7	3188.1	3132.3	3070.5	2954.5	2829.5	2814.4	2614.0
20°	3358.3	3344.7	3340.2	3338.7	3326.7	3292.0	3213.7	3123.3	2984.7	2957.5	2708.9
22.5°	3460.8	3447.2	3453.2	3459.3	3475.8	3460.8	3409.5	3302.6	3165.5	3141.3	2858.1
25°	3471.3	3462.3	3502.9	3587.3	3620.5	3637.0	3597.9	3515.0	3382.4	3350.8	3035.9
27.5°	3499.9	3486.4	3530.1	3619.0	3768.1	3793.7	3801.3	3762.1	3650.6	3632.5	3276.9
30°	3448.7	3439.7	3507.5	3659.6	3826.9	3971.5	4027.3	4081.5	4030.3	3998.6	3612.9
32.5°	3323.7	3329.7	3418.6	3620.5	3929.3	4152.3	4296.9	4488.3	4580.2	4574.2	4208.1
35°	3141.3	3138.3	3287.5	3572.2	3938.4	4322.6	4592.2	4981.0	5238.6	5220.5	4833.3
37.5°	2986.2	2978.6	3147.4	3450.2	3945.9	4458.2	4938.8	5518.8	5845.8	5827.7	5344.1
40°	2796.3	2808.4	2959.0	3308.6	3882.6	4559.1	5240.1	6041.6	6376.1	6376.1	5872.9
42.5°	2605.0	2615.5	2764.7	3111.2	3790.7	4632.9	5523.4	6562.9	6903.4	6911.0	6236.0
45°	2437.7	2442.3	2577.9	2889.7	3625.0	4645.0	5784.0	7085.7	7397.6	7378.0	6650.3
47.5°	2144.0	2193.7	2406.1	2690.9	3399.0	4592.2	6004.0	7551.3	7822.5	7781.8	7045.1
50°	1708.5	1708.5	2002.3	2501.0	3139.8	4452.1	6177.2	7976.2	8226.3	8188.6	7390.1
52.5°	1569.9	1572.9	1663.3	2234.4	2877.7	4211.1	6276.7	8398.0	8622.5	8596.9	7717.0
55°	1496.1	1500.6	1542.8	1811.0	2639.6	3841.9	6279.7	8725.0	8958.5	8901.2	7992.7
57.5°	1384.6	1377.1	1466.0	1613.6	2360.9	3365.8	6132.0	8978.1	9219.1	9175.5	8218.7
60°	1306.3	1294.2	1354.5	1487.1	2061.1	2873.2	5738.8	9161.9	9442.1	9467.7	8440.2
62.5°	1214.4	1209.8	1267.1	1392.1	1839.6	2550.7	5148.2	8947.9	9606.4	9565.7	8636.1
65°	1122.4	1113.4	1167.6	1265.6	1625.7	2287.1	4553.1	8631.6	9479.8	9516.0	8675.2
67.5°	1001.9	1000.4	1051.6	1124.0	1392.1	1991.8	3691.3	8215.7	9088.1	9062.5	8319.7
70°	855.8	855.8	907.0	970.3	1163.1	1699.5	2834.0	7503.1	8485.4	8634.6	7711.0
72.5°	691.5	694.6	745.8	818.1	959.7	1384.6	2089.7	6525.3	7962.6	7723.0	6852.2
75°	369.1	331.5	584.6	658.4	774.4	1104.4	1429.8	4242.7	6790.4	6624.7	5684.6
77.5°	88.9	93.4	183.8	342.0	412.8	611.7	703.6	1964.7	4378.3	4642.0	4054.4
80°	58.8	64.8	99.4	242.6	275.7	325.4	278.7	855.8	1698.0	1809.5	2353.4
82.5°	30.1	33.1	61.8	96.4	97.9	84.4	105.5	430.9	898.0	973.3	1131.5
85°	10.5	16.6	31.6	42.2	39.2	31.6	25.6	107.0	212.4	236.5	245.6
87.5°	0.0	0.0	4.5	4.5	3.0	3.0	4.5	4.5	6.0	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



REPORT NUMBER: P509092

CATALOG NUMBER: VERD-CA2-100-760-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2305.2	2288.6	2263.0	2235.9	2207.2	2183.1	2169.6	2177.1	2186.1	2157.5	2147.0
5°	2300.6	2272.0	2223.8	2166.6	2122.9	2079.2	2027.9	2015.9	2003.8	1988.8	1972.2
7.5°	2321.7	2279.5	2181.6	2128.9	2037.0	1955.6	1910.4	1877.3	1847.1	1820.0	1803.5
10°	2360.9	2282.6	2172.6	2065.6	1964.7	1865.2	1767.3	1747.7	1741.7	1702.5	1673.9
12.5°	2386.5	2290.1	2140.9	2011.4	1866.7	1759.8	1661.8	1606.1	1601.6	1583.5	1563.9
15°	2427.2	2320.2	2119.8	1943.6	1767.3	1654.3	1563.9	1491.6	1455.4	1453.9	1438.8
17.5°	2501.0	2354.9	2086.7	1874.3	1687.4	1560.9	1431.3	1404.2	1343.9	1309.3	1300.2
20°	2576.4	2406.1	2077.7	1805.0	1583.5	1426.8	1327.4	1252.0	1203.8	1167.6	1145.0
22.5°	2674.3	2479.9	2080.7	1764.3	1499.1	1325.8	1196.3	1084.8	995.9	952.2	931.1
25°	2815.9	2565.8	2103.3	1702.5	1399.7	1217.4	1029.0	881.4	756.3	724.7	709.6
27.5°	2996.7	2686.3	2134.9	1639.2	1307.8	1071.2	827.1	661.4	557.5	533.4	518.3
30°	3273.9	2867.1	2139.4	1600.1	1224.9	881.4	619.2	489.7	408.3	382.7	385.7
32.5°	3795.2	3254.3	2199.7	1518.7	1077.2	676.5	455.0	357.1	295.3	286.3	301.3
35°	4400.9	3710.9	2315.7	1476.5	908.5	489.7	325.4	262.2	223.0	235.0	241.1
37.5°	4791.1	4113.1	2501.0	1380.1	711.1	360.1	227.5	204.9	197.4	204.9	218.5
40°	5246.1	4440.1	2659.2	1282.2	504.7	247.1	182.3	186.8	177.8	176.3	182.3
42.5°	5615.3	4776.1	2828.0	1120.9	351.0	183.8	167.2	170.3	164.2	156.7	156.7
45°	5966.3	5066.8	2826.5	904.0	232.0	162.7	153.7	159.7	158.2	147.7	146.1
47.5°	6273.7	5360.6	2828.0	656.9	176.3	149.2	143.1	149.2	149.2	140.1	138.6
50°	6654.8	5604.7	2782.8	420.4	161.2	138.6	137.1	135.6	141.6	129.6	126.6
52.5°	6888.4	5782.5	2579.4	283.2	149.2	131.1	128.1	125.1	128.1	117.5	117.5
55°	7144.5	6004.0	2314.2	224.5	141.6	122.0	120.5	117.5	117.5	105.5	107.0
57.5°	7423.2	6184.8	1957.1	197.4	135.6	116.0	113.0	108.5	102.5	93.4	91.9
60°	7625.1	6222.4	1601.6	179.3	131.1	113.0	100.9	94.9	84.4	78.3	76.8
62.5°	7692.9	6242.0	1298.7	161.2	123.5	104.0	90.4	79.9	67.8	63.3	63.3
65°	7637.2	6016.0	973.3	146.1	114.5	96.4	79.9	64.8	52.7	48.2	46.7
67.5°	7278.6	5600.2	708.1	131.1	100.9	87.4	69.3	52.7	42.2	37.7	37.7
70°	6626.2	5110.5	479.1	110.0	87.4	76.8	64.8	42.2	34.7	30.1	28.6
72.5°	5915.1	4333.1	305.8	88.9	67.8	60.3	46.7	36.2	28.6	22.6	22.6
75°	4678.1	3403.5	212.4	64.8	48.2	45.2	36.2	30.1	24.1	18.1	18.1
77.5°	3255.9	2211.8	167.2	49.7	33.1	30.1	27.1	22.6	19.6	15.1	13.6
80°	1887.8	1330.4	100.9	33.1	22.6	19.6	18.1	18.1	15.1	10.5	10.5
82.5°	937.1	554.4	43.7	21.1	15.1	13.6	12.1	10.5	10.5	7.5	7.5
85°	183.8	94.9	16.6	10.5	7.5	7.5	6.0	6.0	4.5	3.0	3.0
87.5°	6.0	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)