

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: P553506

Luminaire Tested: **VERD-G-CA2-140-727-U-T3-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-140-727-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1290mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

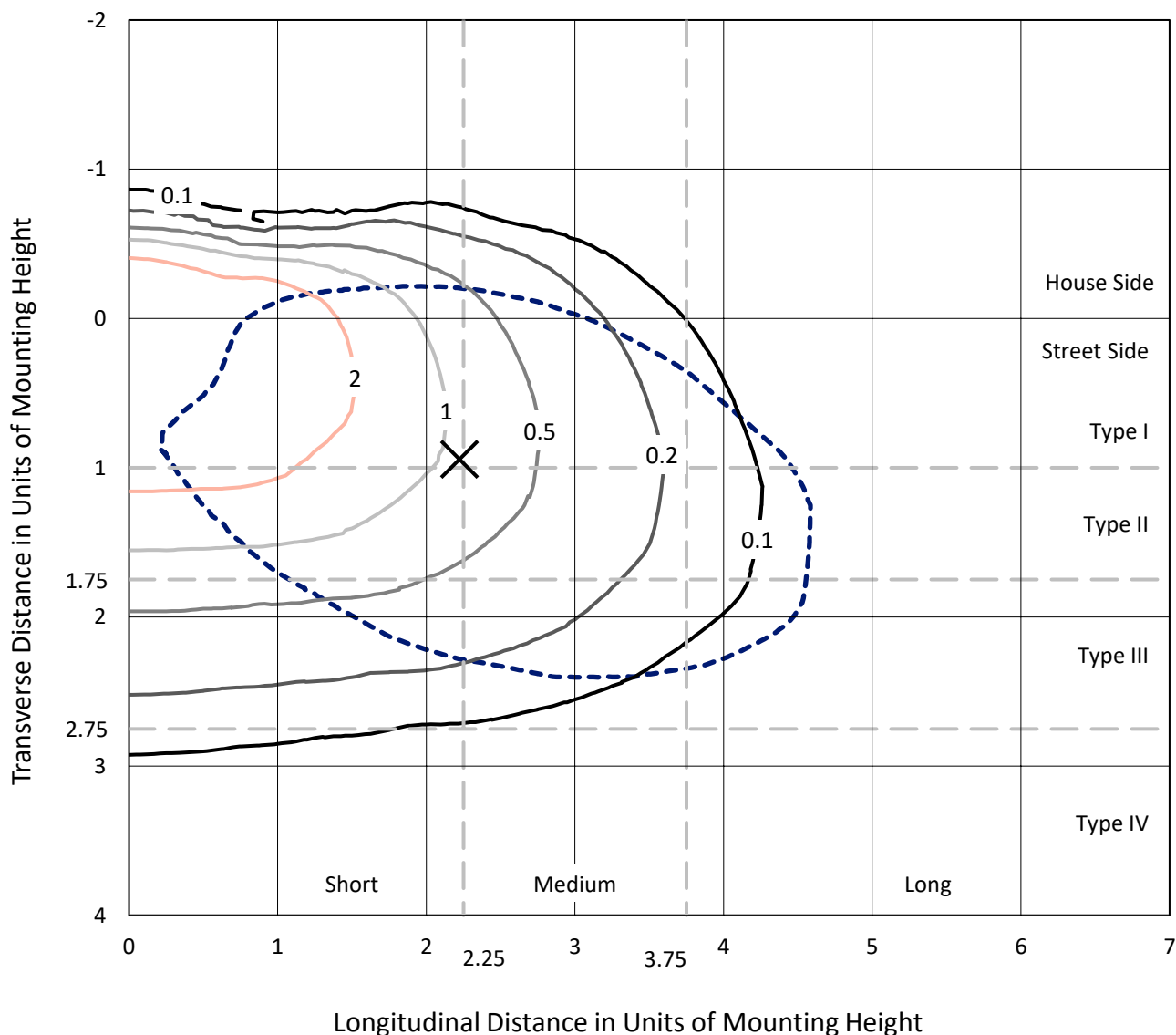
Lumens per Lamp: N/A  
Luminaire Lumens: 16064 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): 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

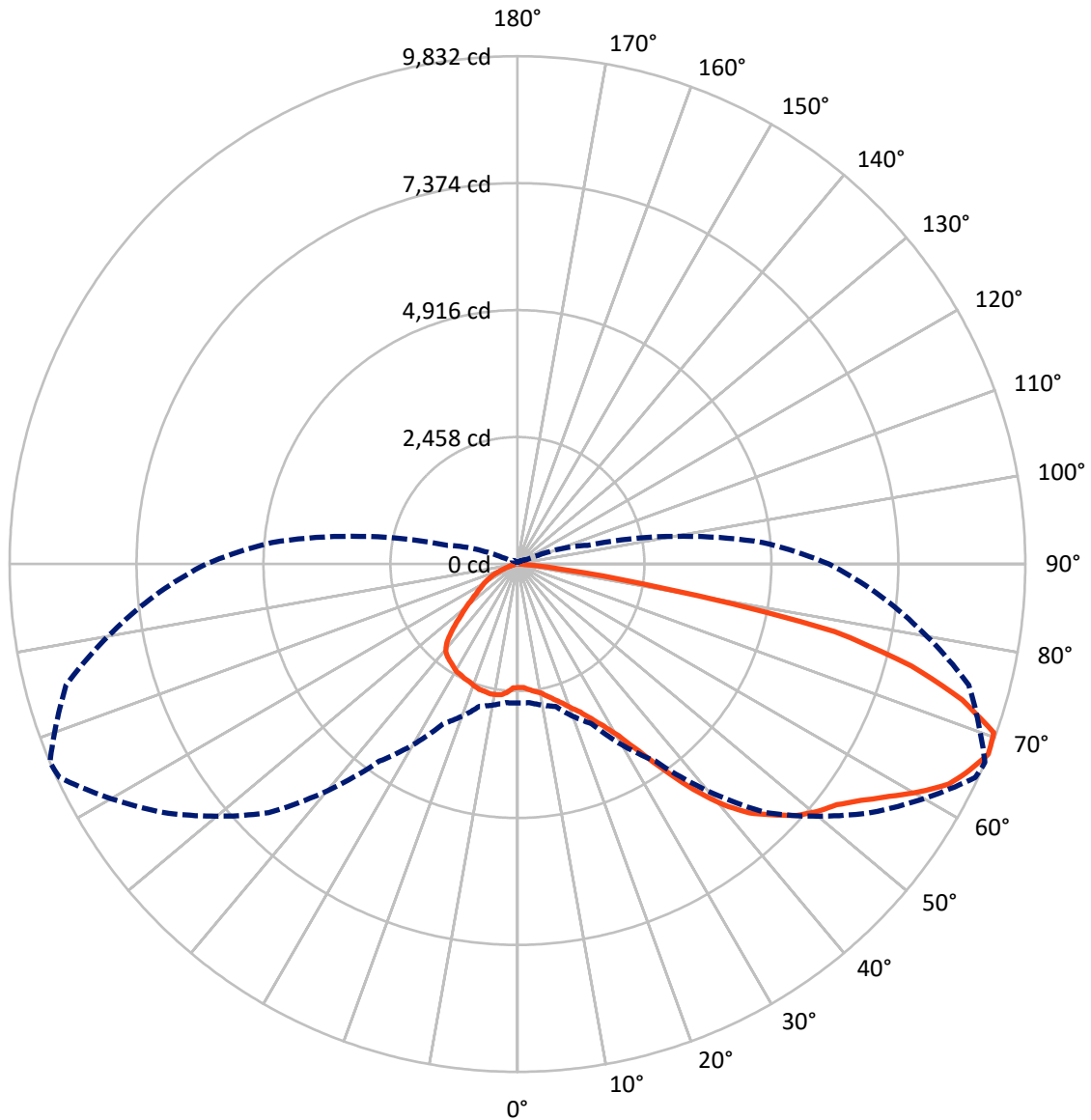
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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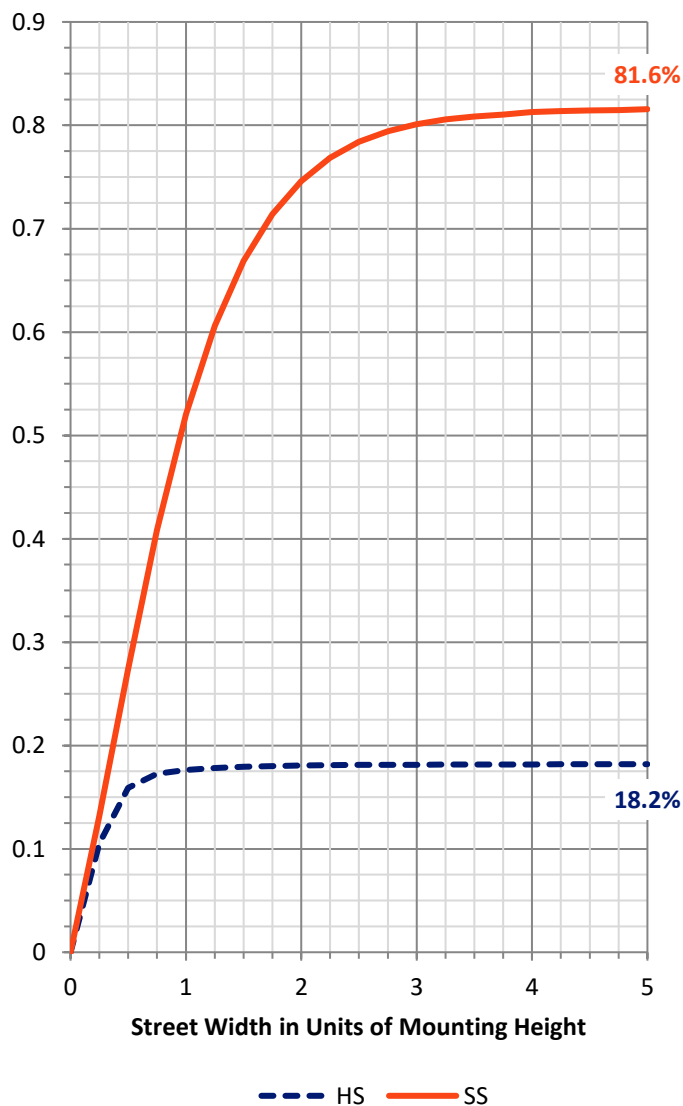
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2956.8	0.0	2956.8
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	13107.2	0.0	13107.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	16064.0	0.0	16064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.5	1.5
10°-20°	751.9	4.7
20°-30°	1282.0	8.0
30°-40°	1955.3	12.2
40°-50°	2756.4	17.2
50°-60°	3331.7	20.7
60°-70°	3508.9	21.8
70°-80°	2087.3	13.0
80°-90°	150.0	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°	16064.0	100.0
0°-180°	16064.0	100.0

**Coefficient of Utilization**



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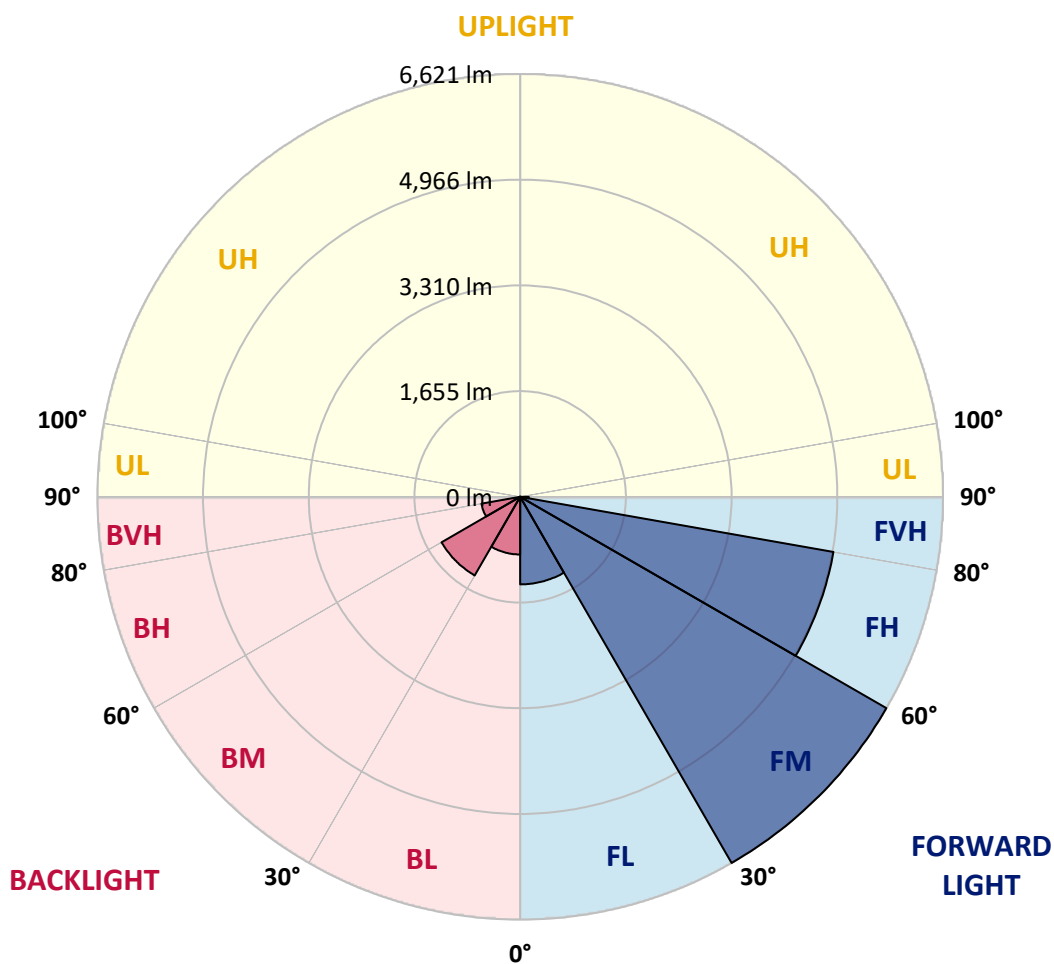
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.4	8.5			
FM (30°-60°)	6620.9	41.2			
FH (60°-80°)	4980.7	31.0			G2/5000
FVH (80°-90°)	134.3	0.8			G2/225
BL (0°-30°)	903.0	5.6	B2/1000		
BM (30°-60°)	1422.5	8.9	B2/2500		
BH (60°-80°)	615.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	15.8	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°	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4
2.5°	2442.0	2451.2	2432.8	2428.2	2404.1	2407.5	2402.9	2391.4	2396.0	2386.8	2392.6
5°	2536.2	2512.1	2505.2	2491.4	2469.6	2456.9	2438.5	2432.8	2445.4	2435.1	2437.4
7.5°	2636.2	2640.8	2609.8	2583.3	2544.3	2535.1	2502.9	2483.4	2496.0	2482.2	2490.3
10°	2761.5	2768.3	2735.0	2699.4	2666.1	2617.8	2577.6	2546.6	2543.1	2536.2	2547.7
12.5°	2925.8	2924.6	2887.9	2844.2	2778.7	2745.4	2668.4	2624.7	2630.4	2605.2	2602.9
15°	3116.5	3100.5	3057.9	3013.1	2931.5	2866.0	2772.9	2718.9	2728.1	2699.4	2692.5
17.5°	3302.7	3286.6	3253.3	3203.9	3129.2	3028.1	2914.3	2836.2	2833.9	2820.1	2778.7
20°	3493.5	3500.4	3455.6	3410.7	3336.0	3200.4	3071.7	2970.6	2972.9	2948.8	2868.3
22.5°	3716.4	3703.8	3649.8	3629.1	3544.0	3395.8	3252.2	3136.1	3113.1	3108.5	2969.5
25°	3929.0	3921.0	3871.6	3847.4	3776.2	3640.6	3454.4	3315.4	3311.9	3297.0	3100.5
27.5°	4097.9	4107.1	4102.5	4085.3	4007.2	3873.9	3710.7	3544.0	3546.3	3524.5	3270.5
30°	4338.1	4310.5	4300.2	4314.0	4307.1	4163.4	3989.9	3869.3	3861.2	3804.9	3485.4
32.5°	4478.3	4492.1	4505.9	4554.2	4555.3	4448.4	4335.8	4278.4	4310.5	4319.7	4019.8
35°	4607.0	4607.0	4686.3	4808.1	4850.6	4813.9	4765.6	4838.0	4901.2	5028.8	4677.1
37.5°	4721.9	4755.3	4830.0	4982.8	5121.8	5157.5	5263.2	5462.0	5539.0	5655.1	5231.0
40°	4818.5	4842.6	4938.0	5125.3	5364.3	5527.5	5725.2	6041.2	6121.6	6099.8	5539.0
42.5°	4711.6	4750.7	4903.5	5288.5	5589.6	5896.4	6155.0	6496.3	6593.9	6391.7	5863.1
45°	4654.1	4669.1	4828.8	5265.5	5755.0	6269.9	6562.9	6928.3	6928.3	6702.0	6091.7
47.5°	4539.2	4565.7	4755.3	5235.6	5930.9	6581.3	6877.8	7250.1	7274.2	6995.0	6319.3
50°	4423.2	4456.5	4671.4	5182.8	6029.7	6893.9	7145.5	7519.0	7528.2	7196.1	6520.4
52.5°	4308.2	4325.5	4565.7	5148.3	6138.9	7054.8	7376.5	7737.4	7742.0	7497.2	6742.2
55°	4102.5	4145.1	4393.3	5021.9	6133.1	7128.3	7497.2	8029.2	8074.1	7824.7	6960.5
57.5°	3909.5	3922.1	4193.3	4839.2	6040.0	7213.3	7756.9	8447.5	8491.2	8122.3	7122.6
60°	3652.1	3665.9	3957.7	4622.0	5902.1	7298.4	8086.7	8935.9	8955.5	8434.9	7244.4
62.5°	3383.2	3430.3	3670.4	4288.7	5616.0	7313.3	8366.0	9386.4	9378.4	8706.1	7324.8
65°	3067.1	3084.4	3315.4	3899.1	5178.2	7199.5	8480.9	9604.8	9624.3	8896.9	7271.9
67.5°	2687.9	2694.8	2853.4	3414.2	4659.9	6807.7	8385.5	9782.9	9832.3	9046.3	7051.3
70°	2123.7	2134.0	2280.0	2813.2	3924.4	6207.8	8224.6	9803.6	9782.9	8911.8	6715.7
72.5°	1480.1	1465.2	1607.7	1973.1	2971.8	5105.8	7447.8	8969.3	9006.0	8245.3	6013.6
75°	709.0	713.6	996.3	1213.5	1668.6	3647.5	6198.6	7723.6	7877.6	7185.8	4898.9
77.5°	120.7	123.0	263.2	478.1	672.3	1530.7	4110.6	6151.5	6282.5	5640.1	3316.5
80°	96.5	96.5	128.7	257.4	356.2	634.3	1557.1	2727.0	2869.5	2554.6	1222.7
82.5°	65.5	69.0	91.9	150.5	126.4	248.2	565.4	863.0	886.0	803.3	502.2
85°	36.8	37.9	47.1	60.9	52.9	91.9	116.1	118.4	125.3	97.7	74.7
87.5°	4.6	10.3	10.3	10.3	4.6	4.6	3.4	3.4	4.6	3.4	3.4
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°	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4	2391.4
2.5°	2389.1	2375.3	2405.2	2399.5	2420.2	2416.7	2433.9	2443.1	2462.7	2488.0	2485.7
5°	2439.7	2438.5	2474.2	2491.4	2509.8	2527.0	2528.2	2545.4	2562.6	2600.6	2599.4
7.5°	2488.0	2498.3	2548.9	2550.0	2556.9	2569.5	2552.3	2558.1	2562.6	2576.4	2581.0
10°	2544.3	2563.8	2564.9	2560.4	2538.5	2537.4	2498.3	2502.9	2482.2	2498.3	2490.3
12.5°	2616.7	2600.6	2591.4	2560.4	2527.0	2482.2	2445.4	2394.9	2383.4	2383.4	2386.8
15°	2687.9	2663.8	2584.5	2535.1	2474.2	2402.9	2343.2	2285.7	2257.0	2244.3	2242.0
17.5°	2750.0	2699.4	2586.8	2522.4	2407.5	2302.9	2213.3	2121.4	2076.5	2047.8	2043.2
20°	2800.5	2746.5	2593.7	2481.1	2335.1	2181.1	2045.5	1929.5	1841.0	1775.5	1782.4
22.5°	2885.6	2799.4	2589.1	2431.6	2251.2	2051.3	1846.7	1687.0	1538.7	1502.0	1512.3
25°	2987.8	2875.2	2615.5	2401.8	2153.5	1888.1	1619.2	1434.2	1275.6	1225.0	1228.5
27.5°	3106.2	2967.2	2645.4	2352.4	2052.4	1687.0	1362.9	1134.2	1007.8	907.8	899.8
30°	3294.7	3092.4	2677.6	2320.2	1911.1	1462.9	1083.7	845.8	687.2	633.2	633.2
32.5°	3737.1	3346.4	2729.3	2243.2	1724.9	1212.4	790.6	553.9	413.7	365.4	366.6
35°	4299.0	3858.9	2846.5	2148.9	1505.4	919.3	488.4	308.0	242.5	218.3	216.0
37.5°	4835.7	4330.1	3097.0	2038.6	1228.5	582.6	274.7	189.6	165.5	164.3	165.5
40°	5166.7	4702.4	3348.7	1891.5	897.5	320.6	178.1	155.1	151.7	148.2	148.2
42.5°	5472.3	4958.7	3539.4	1666.3	535.5	194.2	156.3	141.3	139.0	133.3	133.3
45°	5720.6	5142.5	3554.4	1366.4	283.8	172.4	143.6	128.7	124.1	120.7	119.5
47.5°	5956.1	5321.8	3500.4	1046.9	202.3	159.7	134.5	118.4	112.6	114.9	113.8
50°	6114.7	5501.1	3353.3	822.8	193.1	148.2	124.1	108.0	105.7	110.3	109.2
52.5°	6286.0	5648.2	3067.1	640.1	179.3	136.8	113.8	101.1	96.5	100.0	101.1
55°	6421.6	5645.9	2856.8	499.9	170.1	127.6	106.9	95.4	87.3	87.3	86.2
57.5°	6488.2	5591.9	2687.9	393.0	159.7	118.4	100.0	83.9	74.7	72.4	71.2
60°	6484.8	5539.0	2491.4	322.9	149.4	108.0	89.6	71.2	62.1	57.5	57.5
62.5°	6448.0	5414.9	2180.0	278.1	139.0	100.0	74.7	58.6	51.7	47.1	48.3
65°	6353.8	5175.9	1797.3	236.7	128.7	96.5	63.2	51.7	44.8	40.2	40.2
67.5°	6027.4	4774.8	1402.0	198.8	118.4	80.4	55.2	43.7	37.9	33.3	33.3
70°	5565.4	4163.4	922.8	167.8	105.7	70.1	49.4	37.9	32.2	27.6	26.4
72.5°	4743.8	3326.8	468.9	143.6	90.8	62.1	43.7	33.3	27.6	23.0	21.8
75°	3638.3	2240.9	291.9	114.9	71.2	55.2	39.1	29.9	23.0	17.2	16.1
77.5°	2169.6	902.1	206.9	80.4	48.3	43.7	32.2	24.1	18.4	12.6	12.6
80°	684.9	398.8	140.2	55.2	31.0	29.9	24.1	17.2	12.6	9.2	9.2
82.5°	387.3	252.8	94.2	36.8	21.8	19.5	13.8	10.3	8.0	6.9	6.9
85°	64.4	50.6	28.7	13.8	10.3	9.2	5.7	3.4	2.3	1.1	2.3
87.5°	3.4	3.4	4.6	4.6	4.6	3.4	2.3	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)