

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: P509126

Luminaire Tested: **VERD-CA2-110-740-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-110-740-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15058 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

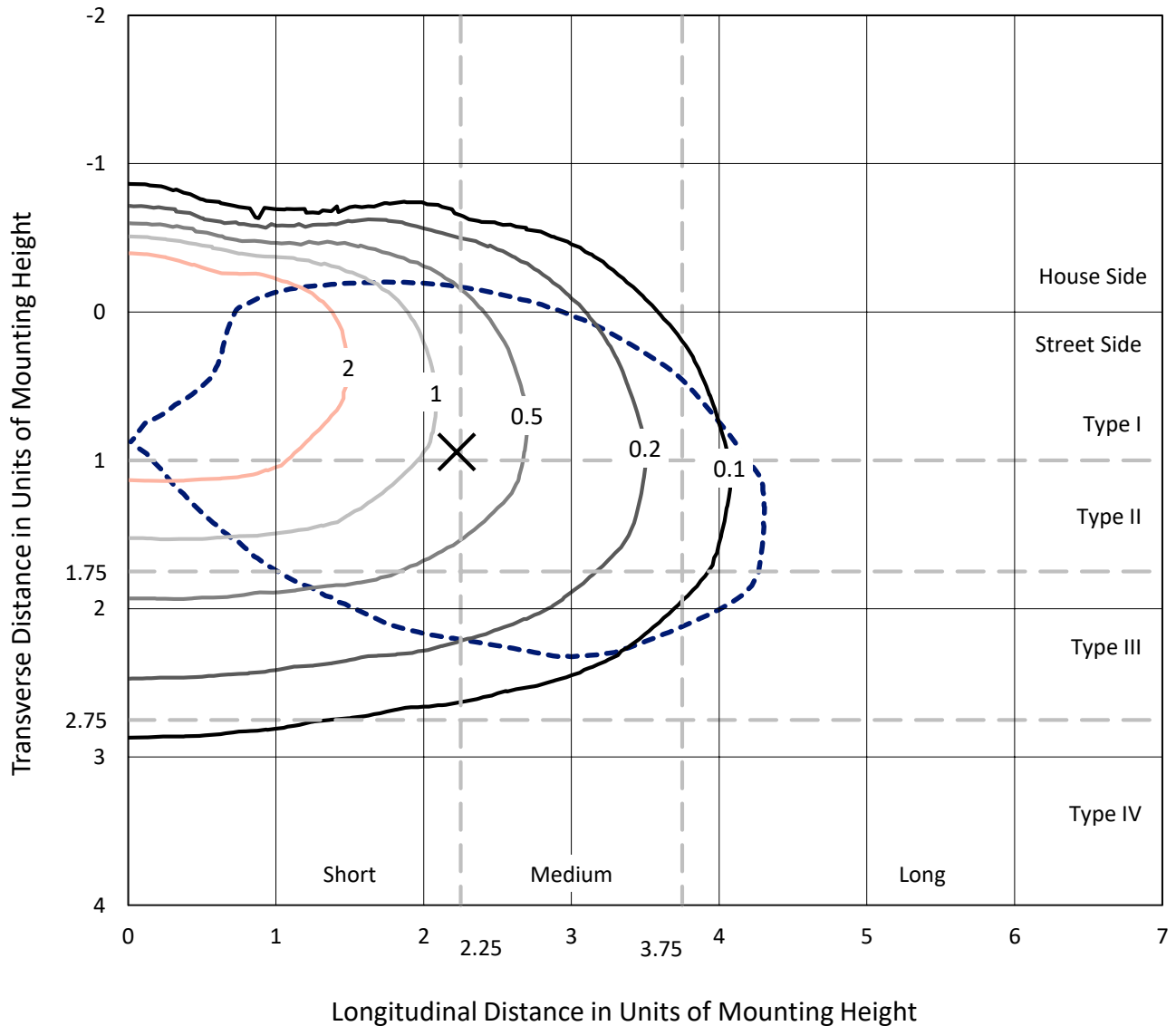
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

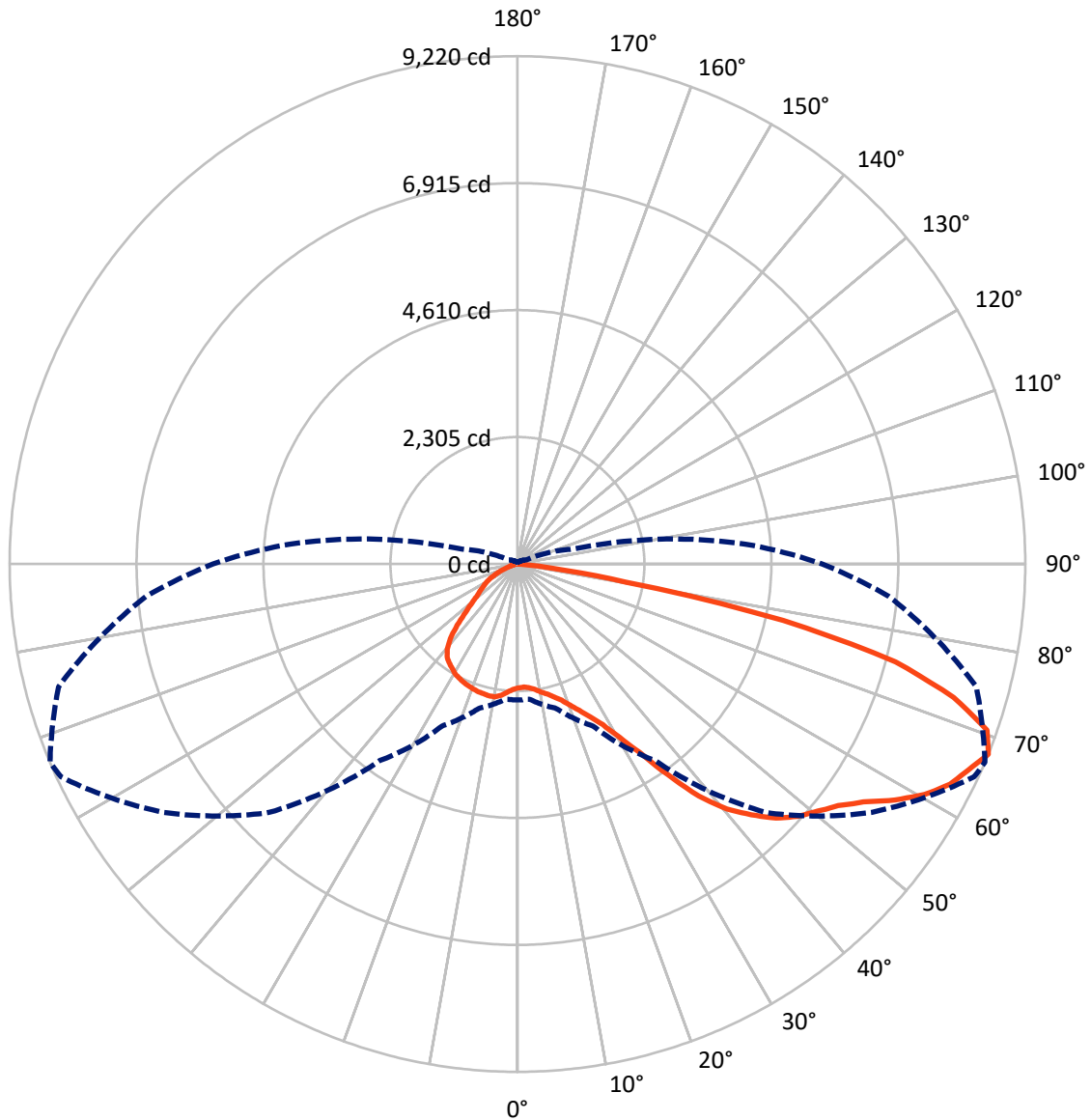
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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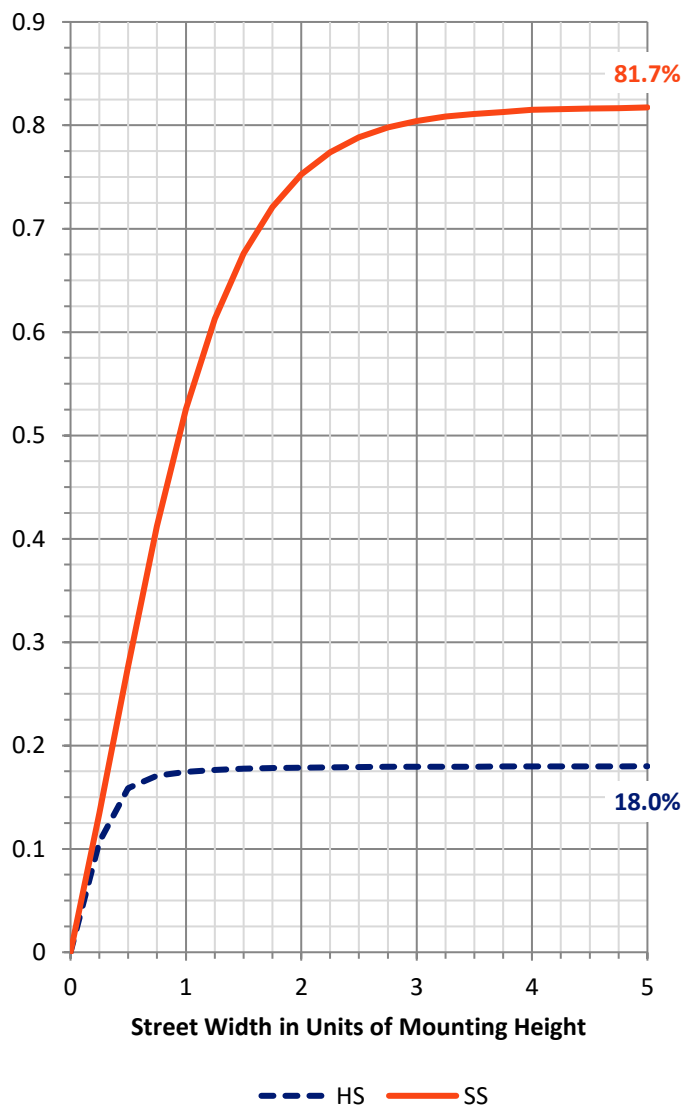
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2743.7	0.0	2743.7
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	12314.3	0.0	12314.3
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	15058.0	0.0	15058.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.2	1.5
10°-20°	705.5	4.7
20°-30°	1203.8	8.0
30°-40°	1873.7	12.4
40°-50°	2645.1	17.6
50°-60°	3185.7	21.2
60°-70°	3292.3	21.9
70°-80°	1813.6	12.0
80°-90°	113.0	0.8
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°	15058.0	100.0
0°-180°	15058.0	100.0

**Coefficient of Utilization**



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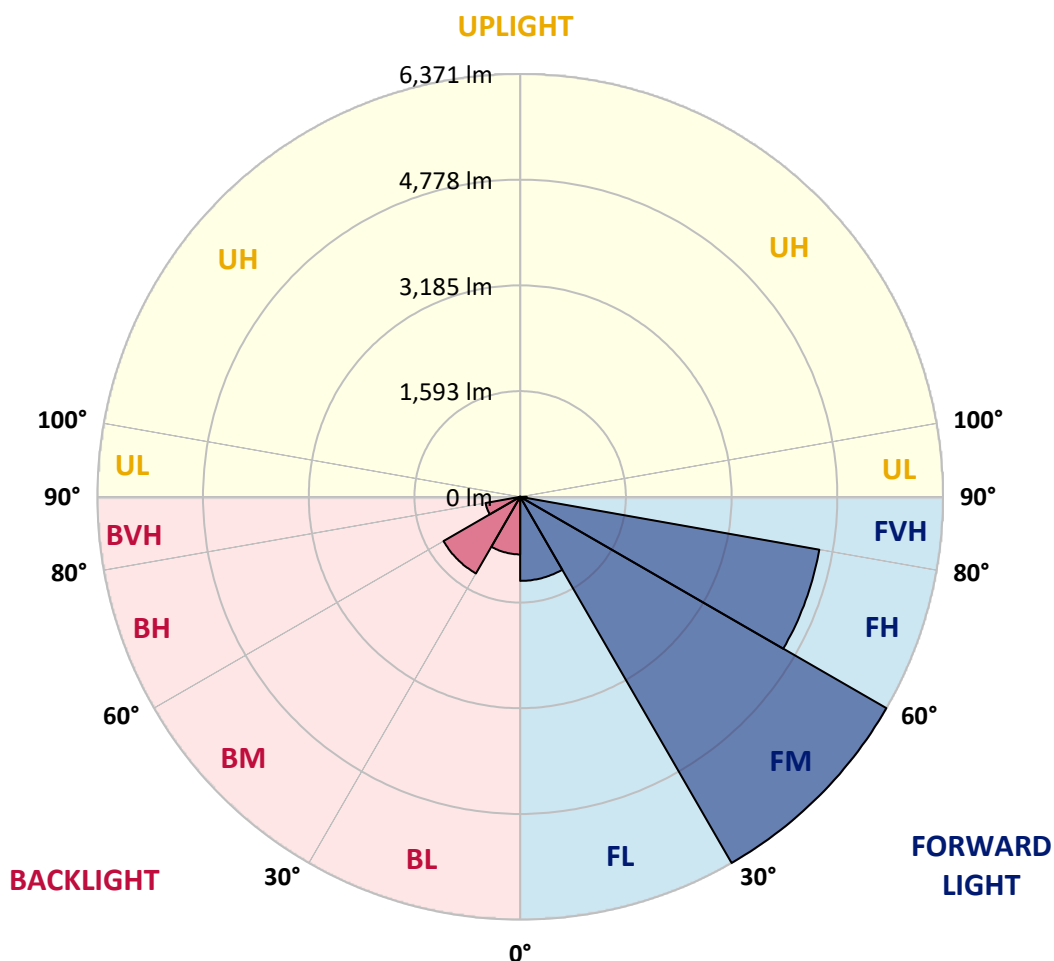
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1267.0	8.4			
FM	(30°-60°)	6370.8	42.3			
FH	(60°-80°)	4577.1	30.4			G2/5000
FVH	(80°-90°)	99.4	0.7			G1/100
BL	(0°-30°)	867.5	5.8	B2/1000		
BM	(30°-60°)	1333.7	8.9	B2/2500		
BH	(60°-80°)	528.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	13.6	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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2227.4	2250.1	2250.1	2243.1	2246.6	2230.9	2220.4	2232.6	2236.1	2246.6	2260.5
5°	2271.0	2297.1	2295.4	2283.2	2272.7	2258.8	2244.8	2255.3	2257.0	2260.5	2278.0
7.5°	2363.4	2387.8	2377.3	2365.1	2359.9	2328.5	2298.9	2297.1	2300.6	2311.1	2330.2
10°	2483.6	2502.8	2499.3	2480.1	2466.2	2419.1	2377.3	2361.6	2363.4	2366.8	2400.0
12.5°	2619.6	2645.7	2626.5	2600.4	2576.0	2508.0	2450.5	2427.8	2424.4	2433.1	2461.0
15°	2753.8	2781.7	2767.7	2752.0	2696.3	2621.3	2548.1	2511.5	2508.0	2508.0	2525.5
17.5°	2929.8	2940.3	2931.5	2908.9	2846.1	2752.0	2664.9	2610.9	2602.1	2607.4	2610.9
20°	3125.0	3144.2	3133.7	3109.3	3018.7	2917.6	2807.8	2743.3	2738.1	2743.3	2710.2
22.5°	3362.0	3369.0	3363.8	3323.7	3241.8	3107.6	2962.9	2889.7	2889.7	2894.9	2827.0
25°	3564.2	3606.0	3593.8	3545.0	3449.2	3332.4	3158.1	3067.5	3072.7	3076.2	2982.1
27.5°	3799.5	3834.4	3825.6	3789.0	3726.3	3578.2	3369.0	3309.8	3304.5	3299.3	3152.9
30°	4024.3	4050.5	4067.9	4059.2	4008.7	3869.2	3682.7	3639.2	3653.1	3642.6	3389.9
32.5°	4207.3	4252.7	4301.5	4311.9	4298.0	4174.2	4038.3	4060.9	4078.4	4202.1	4050.5
35°	4364.2	4413.0	4493.2	4576.8	4592.5	4543.7	4475.7	4641.3	4691.9	4944.6	4784.2
37.5°	4528.0	4569.9	4650.0	4782.5	4869.6	4895.8	4962.0	5223.4	5345.4	5563.3	5265.3
40°	4603.0	4644.8	4784.2	4951.6	5132.8	5279.2	5411.7	5714.9	5850.9	5917.1	5530.2
42.5°	4528.0	4568.1	4793.0	5108.4	5354.2	5678.3	5828.2	6131.5	6222.1	6215.2	5856.1
45°	4454.8	4493.2	4728.5	5148.5	5554.6	6046.1	6173.3	6513.2	6579.4	6495.8	6044.3
47.5°	4360.7	4413.0	4657.0	5124.1	5734.1	6379.0	6495.8	6785.1	6844.3	6720.6	6260.5
50°	4245.7	4291.0	4575.1	5085.8	5852.6	6628.2	6752.0	7039.5	7055.2	6940.2	6455.7
52.5°	4113.2	4137.6	4446.1	5009.1	5955.5	6811.2	6952.4	7253.9	7290.5	7259.1	6687.5
55°	3916.3	3959.9	4291.0	4888.8	5962.4	6907.1	7107.5	7557.2	7623.4	7550.2	6828.7
57.5°	3708.9	3755.9	4099.3	4721.5	5859.6	6968.1	7389.9	7951.1	8081.8	7846.5	6943.7
60°	3480.6	3522.4	3860.5	4474.0	5676.6	7055.2	7680.9	8412.9	8494.9	8099.2	7020.4
62.5°	3215.6	3248.8	3571.2	4174.2	5396.0	7032.6	7931.9	8784.2	8810.3	8325.8	7013.4
65°	2893.2	2891.5	3191.2	3755.9	4935.9	6851.3	7977.2	8970.7	9002.0	8472.2	6950.7
67.5°	2467.9	2462.7	2713.7	3245.3	4355.5	6379.0	7857.0	9145.0	9219.9	8625.6	6767.6
70°	1934.6	1941.6	2131.6	2605.6	3534.6	5659.2	7539.8	9028.2	9043.9	8331.0	6293.6
72.5°	1368.2	1364.7	1493.7	1814.4	2612.6	4418.2	6626.5	8231.7	8280.5	7602.5	5483.1
75°	627.4	653.6	976.0	1108.5	1577.3	3008.2	5451.8	6994.2	7088.3	6544.6	4275.3
77.5°	116.8	120.3	209.1	421.8	617.0	1085.8	3257.5	4737.2	4934.1	4460.1	2408.7
80°	92.4	94.1	123.7	202.2	257.9	488.0	1071.9	1952.0	1995.6	1739.4	868.0
82.5°	68.0	69.7	92.4	130.7	120.3	210.9	446.2	568.2	603.0	561.2	345.1
85°	40.1	41.8	54.0	64.5	62.7	83.7	74.9	68.0	61.0	50.5	43.6
87.5°	10.5	13.9	22.7	22.7	17.4	15.7	13.9	12.2	13.9	12.2	12.2
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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2264.0	2262.3	2267.5	2281.4	2293.6	2295.4	2312.8	2335.5	2325.0	2354.6	2344.2
5°	2288.4	2293.6	2312.8	2335.5	2356.4	2373.8	2400.0	2438.3	2426.1	2454.0	2443.5
7.5°	2344.2	2352.9	2382.5	2405.2	2429.6	2424.4	2447.0	2469.7	2441.8	2471.4	2457.5
10°	2410.4	2420.9	2438.3	2447.0	2440.0	2436.6	2431.3	2427.8	2391.2	2412.2	2403.4
12.5°	2469.7	2471.4	2466.2	2443.5	2427.8	2386.0	2366.8	2358.1	2302.4	2318.0	2307.6
15°	2527.2	2502.8	2476.6	2424.4	2380.8	2316.3	2274.5	2237.9	2185.6	2206.5	2185.6
17.5°	2589.9	2553.3	2485.4	2408.7	2319.8	2225.7	2157.7	2098.4	2020.0	2016.5	2009.6
20°	2670.1	2616.1	2506.3	2380.8	2253.6	2112.4	2004.3	1905.0	1786.5	1770.8	1739.4
22.5°	2771.2	2691.0	2537.7	2344.2	2171.6	1993.9	1810.9	1647.0	1497.1	1450.1	1432.7
25°	2888.0	2788.6	2555.1	2311.1	2093.2	1821.3	1572.1	1359.5	1183.4	1132.9	1118.9
27.5°	3034.4	2912.4	2581.2	2262.3	1967.7	1610.4	1286.3	1051.0	894.1	812.2	800.0
30°	3236.6	3050.1	2617.8	2213.5	1816.1	1362.9	996.9	723.3	575.2	526.4	517.6
32.5°	3787.3	3377.7	2657.9	2126.3	1615.7	1087.6	662.3	461.9	362.5	322.4	318.9
35°	4486.2	3977.3	2804.3	2027.0	1373.4	754.7	411.3	275.4	221.3	205.7	205.7
37.5°	4937.6	4442.6	3048.3	1887.6	1054.4	461.9	247.5	179.5	169.1	167.3	167.3
40°	5174.6	4648.3	3224.3	1695.8	705.9	268.4	174.3	155.1	151.6	148.1	148.1
42.5°	5476.2	4824.3	3376.0	1436.1	409.6	188.2	153.4	141.2	135.9	132.5	132.5
45°	5643.5	5016.0	3280.1	1127.7	233.5	169.1	141.2	127.2	122.0	122.0	122.0
47.5°	5807.3	5199.0	3158.1	810.4	198.7	155.1	132.5	118.5	113.3	116.8	116.8
50°	5993.8	5322.8	2964.7	606.5	188.2	144.7	120.3	108.1	104.6	109.8	109.8
52.5°	6168.1	5335.0	2654.4	484.5	174.3	134.2	111.5	99.3	95.9	99.3	99.3
55°	6218.6	5296.6	2565.5	385.2	165.6	123.7	104.6	92.4	83.7	83.7	81.9
57.5°	6206.4	5221.7	2349.4	325.9	155.1	113.3	95.9	81.9	71.5	68.0	68.0
60°	6164.6	5117.1	2121.1	284.1	144.7	104.6	85.4	69.7	59.3	55.8	55.8
62.5°	6112.3	4920.2	1798.7	247.5	134.2	101.1	71.5	57.5	50.5	47.1	47.1
65°	5892.7	4613.4	1439.6	210.9	123.7	88.9	62.7	50.5	43.6	40.1	40.1
67.5°	5528.5	4146.3	1040.5	179.5	115.0	74.9	55.8	43.6	36.6	34.9	33.1
70°	4984.7	3501.5	644.9	155.1	99.3	68.0	48.8	38.3	33.1	27.9	27.9
72.5°	4155.1	2741.6	338.1	122.0	78.4	57.5	43.6	34.9	27.9	24.4	22.7
75°	2921.1	1690.6	244.0	94.1	54.0	47.1	36.6	29.6	24.4	20.9	19.2
77.5°	1410.0	582.1	170.8	69.7	38.3	34.9	27.9	24.4	19.2	17.4	17.4
80°	515.9	331.1	122.0	50.5	31.4	27.9	20.9	19.2	15.7	13.9	13.9
82.5°	231.8	156.9	69.7	33.1	22.7	20.9	15.7	12.2	12.2	12.2	12.2
85°	38.3	33.1	22.7	15.7	12.2	10.5	10.5	8.7	8.7	8.7	8.7
87.5°	10.5	10.5	8.7	8.7	7.0	5.2	3.5	3.5	3.5	5.2	5.2
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)