

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: P233939

Luminaire Tested: **VERD-G-C02-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02-D-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1175mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15889 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 138
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: 28.75 FT

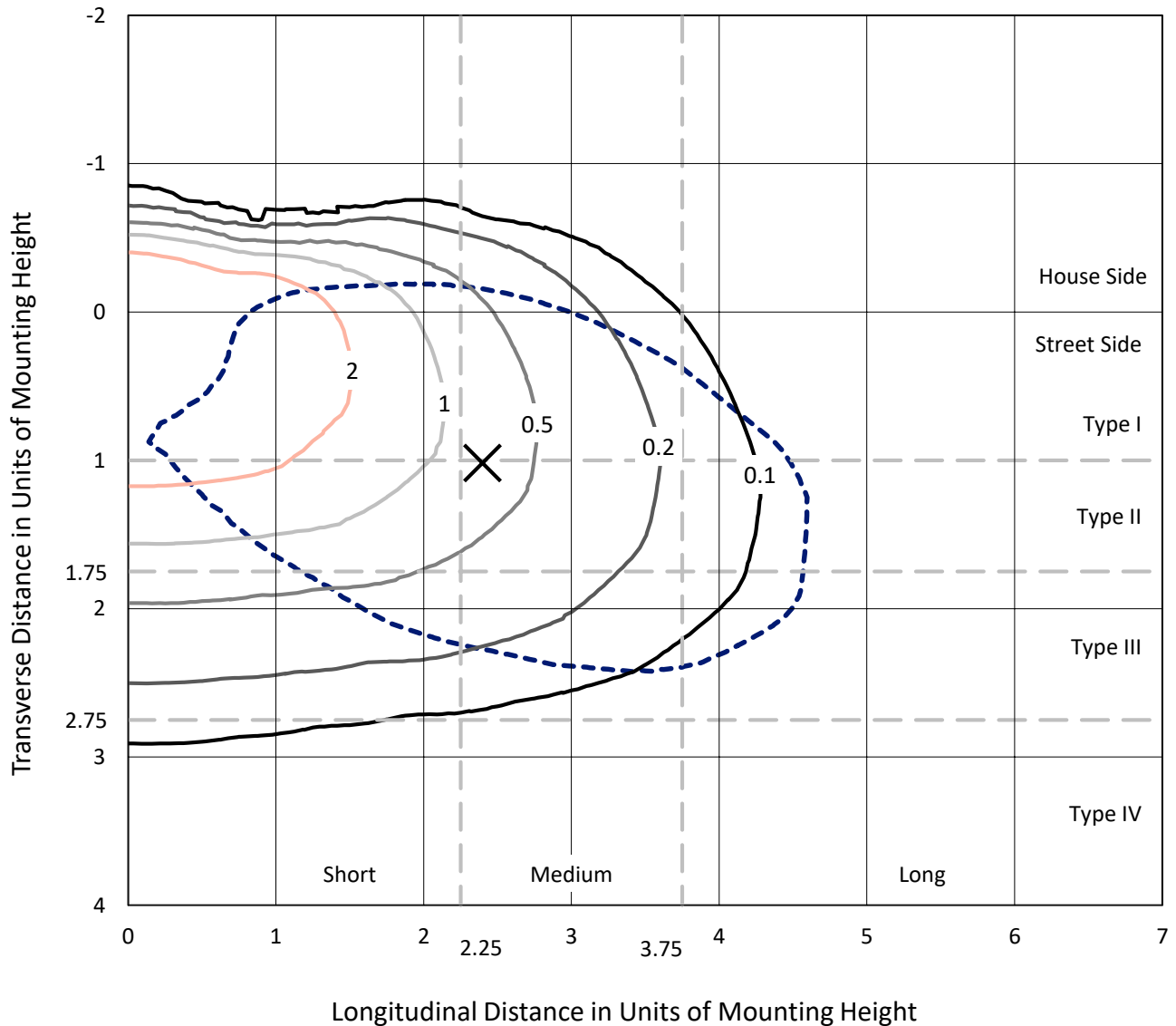


REPORT NUMBER: P233939

CATALOG NUMBER: VERD-G-C02-D-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

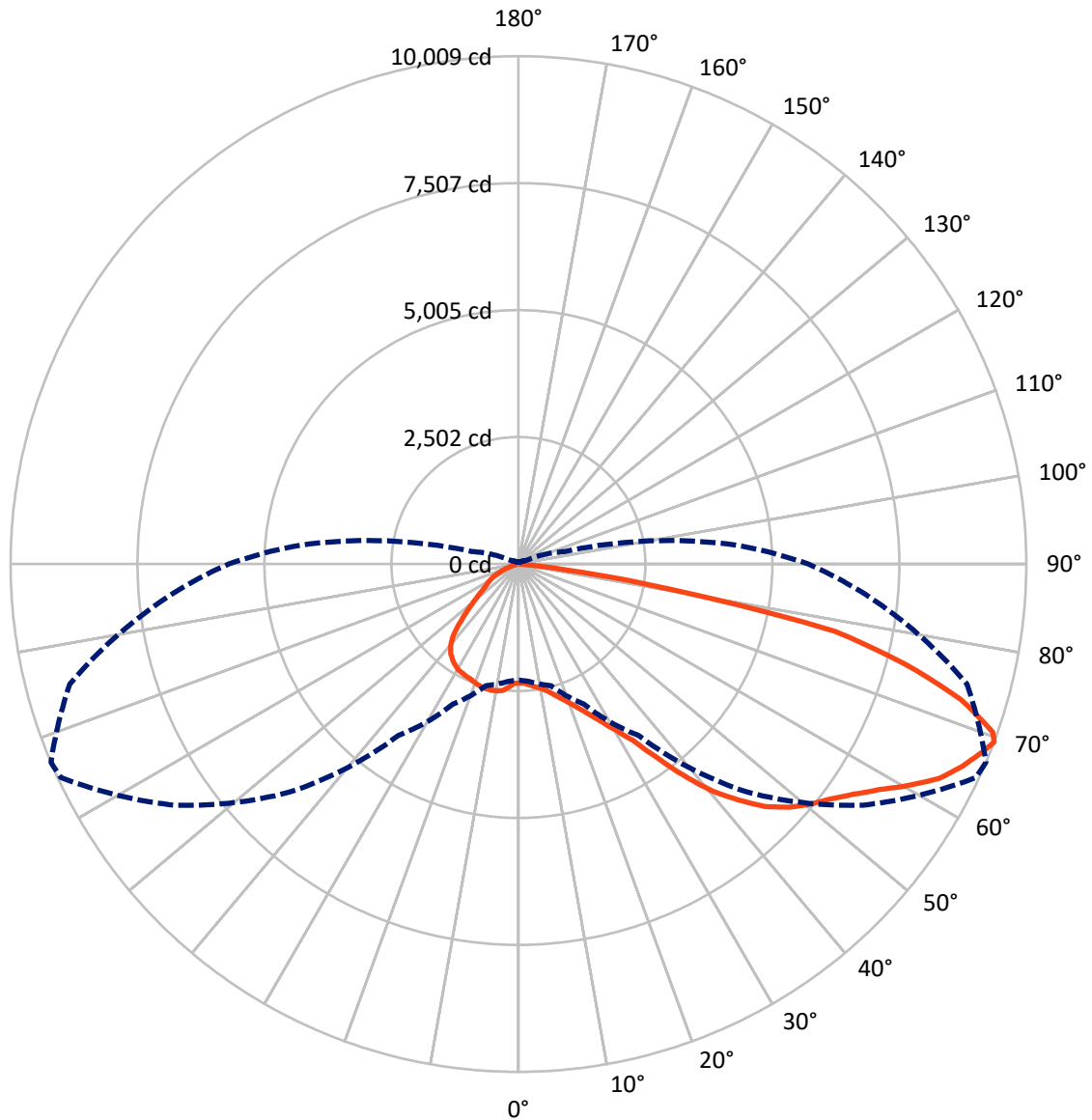


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233939

CATALOG NUMBER: VERD-G-C02-D-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P233939

CATALOG NUMBER: VERD-G-C02-D-U-T3-HSS

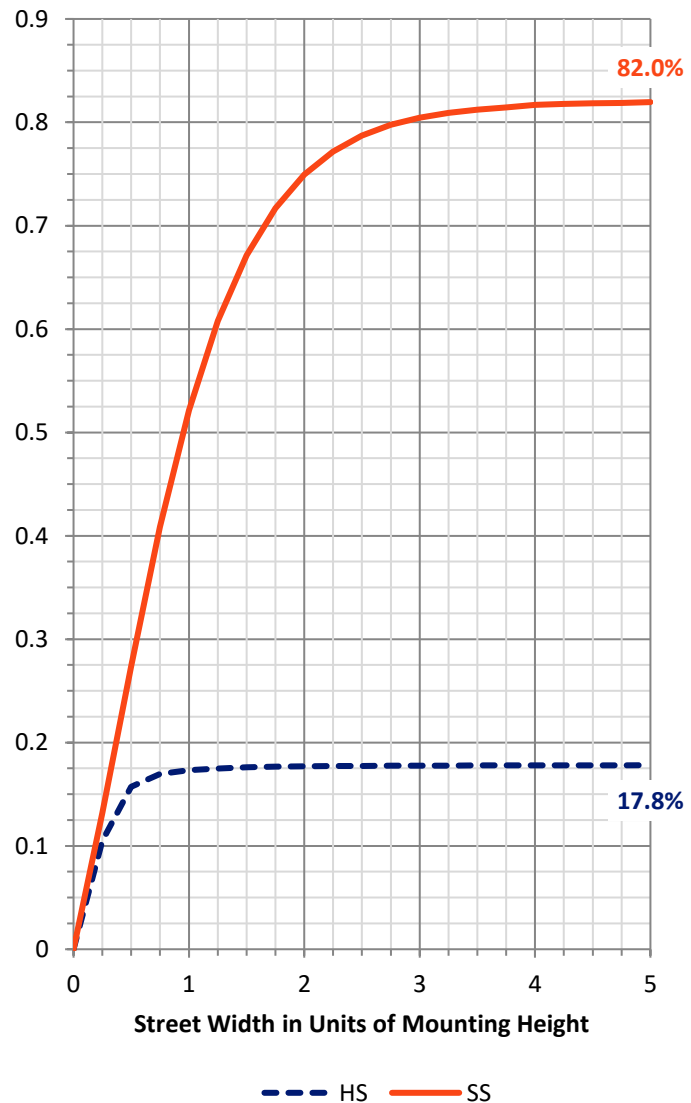
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2864.3	0.0	2864.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	13024.7	0.0	13024.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	15889.0	0.0	15889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	1.5
10°-20°	745.9	4.7
20°-30°	1273.2	8.0
30°-40°	1925.0	12.1
40°-50°	2719.5	17.1
50°-60°	3286.6	20.7
60°-70°	3467.9	21.8
70°-80°	2087.7	13.1
80°-90°	145.9	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°	15889.0	100.0
0°-180°	15889.0	100.0

Coefficient of Utilization



REPORT NUMBER: P233939

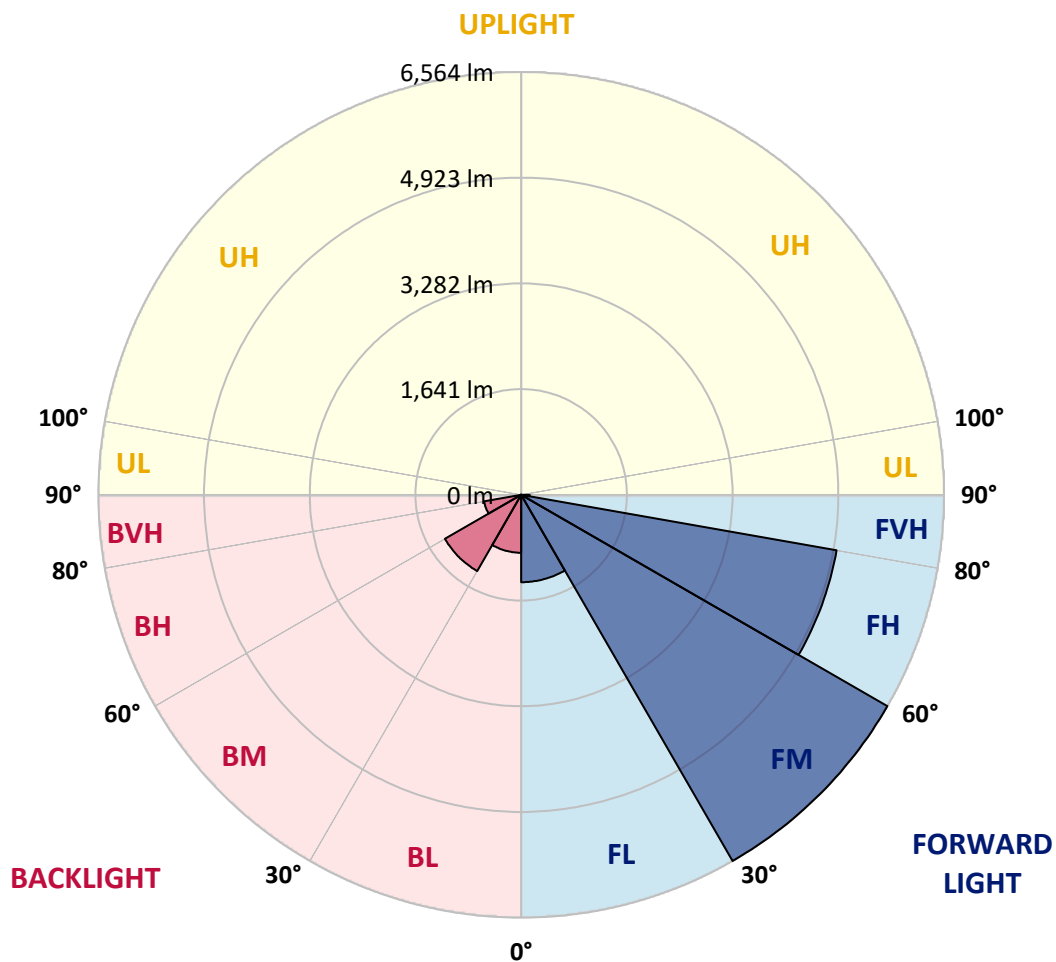
CATALOG NUMBER: VERD-G-C02-D-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.7	8.5			
FM (30°-60°)	6564.5	41.3			
FH (60°-80°)	4971.7	31.3			G2/5000
FVH (80°-90°)	131.8	0.8			G2/225
BL (0°-30°)	899.6	5.7	B2/1000		
BM (30°-60°)	1366.7	8.6	B2/2500		
BH (60°-80°)	584.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	14.2	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 Medium





REPORT NUMBER: P233939

CATALOG NUMBER: VERD-G-C02-D-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2410.5	2406.7	2406.7	2385.2	2364.9	2359.9	2358.6	2352.3	2353.5	2344.7	2335.8
5°	2480.1	2480.1	2477.6	2449.8	2428.2	2414.3	2405.4	2394.1	2395.3	2389.0	2381.4
7.5°	2585.2	2586.5	2581.4	2544.7	2523.2	2489.0	2468.7	2447.2	2446.0	2438.4	2440.9
10°	2714.4	2718.2	2710.6	2663.7	2627.0	2580.2	2537.1	2499.1	2496.6	2487.7	2495.3
12.5°	2860.0	2865.0	2846.0	2797.9	2756.1	2682.7	2630.8	2580.2	2572.6	2571.3	2576.4
15°	3027.1	3029.6	3023.3	2952.4	2901.7	2834.6	2749.8	2685.2	2677.6	2678.9	2672.6
17.5°	3213.2	3219.5	3205.6	3142.3	3075.2	2982.8	2881.5	2801.7	2797.9	2794.1	2766.3
20°	3410.7	3417.0	3408.1	3348.6	3268.9	3152.4	3028.3	2937.2	2935.9	2927.1	2862.5
22.5°	3633.5	3642.4	3637.3	3565.1	3480.3	3353.7	3199.2	3104.3	3101.8	3073.9	2976.4
25°	3875.3	3872.8	3877.8	3800.6	3720.8	3587.9	3396.7	3298.0	3298.0	3263.8	3119.5
27.5°	4109.5	4108.3	4117.1	4062.7	3979.1	3853.8	3623.4	3523.3	3532.2	3482.8	3291.7
30°	4337.4	4337.4	4358.9	4323.5	4261.4	4129.8	3904.4	3799.3	3810.7	3758.8	3509.4
32.5°	4550.1	4560.2	4596.9	4575.4	4528.6	4409.6	4217.1	4120.9	4147.5	4169.0	3914.6
35°	4707.1	4717.2	4802.0	4809.6	4798.2	4718.5	4575.4	4637.5	4669.1	4838.7	4555.2
37.5°	4845.1	4857.7	4959.0	5022.3	5059.0	5009.7	5018.5	5226.2	5285.7	5485.7	5102.1
40°	4946.4	4974.2	5074.2	5161.6	5290.7	5349.0	5493.3	5788.3	5884.5	5964.2	5478.1
42.5°	4876.7	4895.7	5071.7	5305.9	5494.6	5699.6	5933.9	6284.6	6356.7	6331.4	5809.8
45°	4774.2	4797.0	4981.8	5343.9	5656.6	6065.5	6351.7	6731.5	6813.7	6673.2	6095.9
47.5°	4659.0	4690.6	4890.7	5293.3	5792.1	6402.3	6730.2	7115.1	7163.2	6978.3	6336.5
50°	4542.5	4577.9	4804.6	5251.5	5897.1	6683.3	7006.2	7427.8	7441.7	7231.5	6552.9
52.5°	4385.5	4422.2	4670.4	5164.1	5970.6	6868.2	7248.0	7684.8	7693.6	7505.0	6758.0
55°	4186.7	4233.6	4495.7	5035.0	5988.3	6975.8	7401.2	7951.9	8011.4	7801.2	6926.4
57.5°	3952.5	3995.6	4284.2	4848.9	5899.7	7012.5	7615.1	8305.1	8387.4	8101.3	7065.7
60°	3682.9	3732.2	4022.2	4608.3	5721.2	7115.1	7969.6	8803.9	8853.3	8415.3	7188.5
62.5°	3406.9	3442.3	3705.7	4270.3	5442.6	7177.1	8283.6	9272.4	9305.3	8717.9	7261.9
65°	3014.4	3058.7	3315.7	3882.9	5041.3	7058.1	8403.9	9592.7	9612.9	8971.1	7226.5
67.5°	2587.8	2623.2	2810.6	3415.7	4514.6	6680.8	8354.5	9806.6	9871.2	9168.6	7065.7
69°	2285.2	2320.6	2482.7	3042.3	4123.4	6346.6	8284.9	9952.2	10009.2	9154.6	6860.6
70°	2049.7	2085.1	2238.3	2763.7	3817.1	6064.3	8174.7	9878.8	9915.5	8998.9	6660.6
72.5°	1466.1	1501.5	1626.8	1943.3	2891.6	4984.3	7492.3	9063.5	9112.9	8250.7	5952.9
75°	767.2	852.0	1077.4	1255.9	1712.9	3509.4	6228.8	7794.9	7867.1	7240.4	4895.7
77.5°	98.7	103.8	303.8	510.2	707.7	1480.0	4424.8	6259.2	6373.2	5794.6	3385.4
80°	79.8	81.0	105.1	254.5	352.0	600.1	1569.9	2929.6	3067.6	2575.1	1244.5
82.5°	55.7	58.2	82.3	134.2	115.2	219.0	545.7	828.0	853.3	738.1	496.3
85°	31.7	31.7	39.2	51.9	36.7	82.3	112.7	120.3	107.6	106.3	79.8
87.5°	8.9	10.1	11.4	8.9	3.8	3.8	5.1	5.1	5.1	3.8	3.8
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: P233939

CATALOG NUMBER: VERD-G-C02-D-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2349.7	2347.2	2348.5	2353.5	2361.1	2389.0	2408.0	2410.5	2419.4	2452.3	2448.5
5°	2390.3	2405.4	2414.3	2440.9	2458.6	2496.6	2519.4	2521.9	2534.6	2568.8	2570.0
7.5°	2447.2	2472.5	2485.2	2515.6	2521.9	2539.6	2546.0	2539.6	2540.9	2571.3	2573.8
10°	2496.6	2528.3	2528.3	2535.8	2524.5	2525.7	2505.5	2486.5	2476.3	2502.9	2509.3
12.5°	2572.6	2581.4	2561.2	2538.4	2504.2	2473.8	2439.6	2409.2	2385.2	2400.4	2391.5
15°	2651.1	2637.1	2587.8	2528.3	2467.5	2415.6	2344.7	2300.4	2258.6	2267.5	2259.9
17.5°	2729.6	2684.0	2606.7	2508.0	2419.4	2320.6	2221.9	2152.2	2076.3	2070.0	2058.6
20°	2805.5	2739.7	2611.8	2466.2	2342.1	2202.9	2049.7	1930.7	1818.0	1788.9	1769.9
22.5°	2896.7	2801.7	2618.1	2425.7	2258.6	2068.7	1837.0	1652.2	1530.6	1490.1	1471.1
25°	3013.1	2887.8	2635.9	2395.3	2173.8	1902.8	1585.1	1373.6	1242.0	1172.3	1166.0
27.5°	3151.1	2991.6	2666.2	2356.1	2053.5	1681.3	1324.3	1104.0	963.4	892.5	869.8
30°	3332.2	3120.8	2694.1	2325.7	1883.8	1439.5	1050.8	805.2	638.1	592.5	568.4
32.5°	3675.3	3330.9	2729.6	2254.8	1683.8	1174.9	744.4	496.3	382.3	352.0	352.0
35°	4233.6	3793.0	2818.2	2157.3	1443.3	855.8	446.9	278.5	227.9	210.2	201.3
37.5°	4737.5	4258.9	3039.7	2006.7	1150.8	506.4	255.7	172.2	155.7	158.3	158.3
40°	5093.2	4577.9	3284.1	1802.8	781.1	270.9	162.1	138.0	140.5	141.8	141.8
42.5°	5398.3	4850.1	3418.3	1561.0	425.4	176.0	139.3	125.3	129.1	127.9	126.6
45°	5654.1	5071.7	3462.6	1228.0	206.4	155.7	126.6	115.2	115.2	113.9	113.9
47.5°	5873.1	5267.9	3380.3	912.8	167.1	143.1	120.3	106.3	105.1	111.4	111.4
50°	6073.1	5419.9	3175.2	691.2	162.1	131.7	113.9	98.7	100.0	108.9	108.9
52.5°	6240.2	5509.7	2871.3	517.8	150.7	121.5	105.1	92.4	92.4	101.3	101.3
55°	6364.3	5509.7	2639.7	387.4	144.3	111.4	97.5	88.6	83.6	86.1	87.4
57.5°	6426.3	5405.9	2453.6	314.0	136.7	101.3	89.9	77.2	68.4	70.9	69.6
60°	6409.9	5346.4	2239.6	279.8	127.9	93.7	79.8	65.8	57.0	54.4	54.4
62.5°	6379.5	5279.3	1972.5	243.1	119.0	87.4	65.8	53.2	48.1	45.6	46.8
65°	6264.3	5061.6	1634.4	202.6	110.1	84.8	55.7	46.8	41.8	39.2	39.2
67.5°	5985.8	4669.1	1235.6	170.9	102.5	68.4	48.1	40.5	35.4	32.9	32.9
69°	5709.8	4294.4	948.3	155.7	97.5	62.0	44.3	36.7	32.9	29.1	29.1
70°	5471.8	4004.4	743.2	145.6	93.7	59.5	43.0	35.4	31.7	27.9	27.9
72.5°	4659.0	3176.5	377.3	126.6	78.5	51.9	38.0	31.7	26.6	22.8	22.8
75°	3614.5	2189.0	249.4	100.0	60.8	46.8	34.2	27.9	22.8	19.0	17.7
77.5°	2175.0	855.8	178.5	64.6	39.2	36.7	27.9	22.8	19.0	15.2	15.2
80°	600.1	367.1	120.3	43.0	22.8	24.1	20.3	16.5	13.9	11.4	11.4
82.5°	360.8	238.0	79.8	27.9	15.2	15.2	11.4	11.4	8.9	8.9	8.9
85°	62.0	48.1	19.0	11.4	8.9	8.9	6.3	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	5.1	5.1	3.8	2.5	1.3	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)