

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: P509550

Luminaire Tested: **VERD-G-CA2-120-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-730-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16091 lumens
Efficiency: N/A
Efficacy: 129.0 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

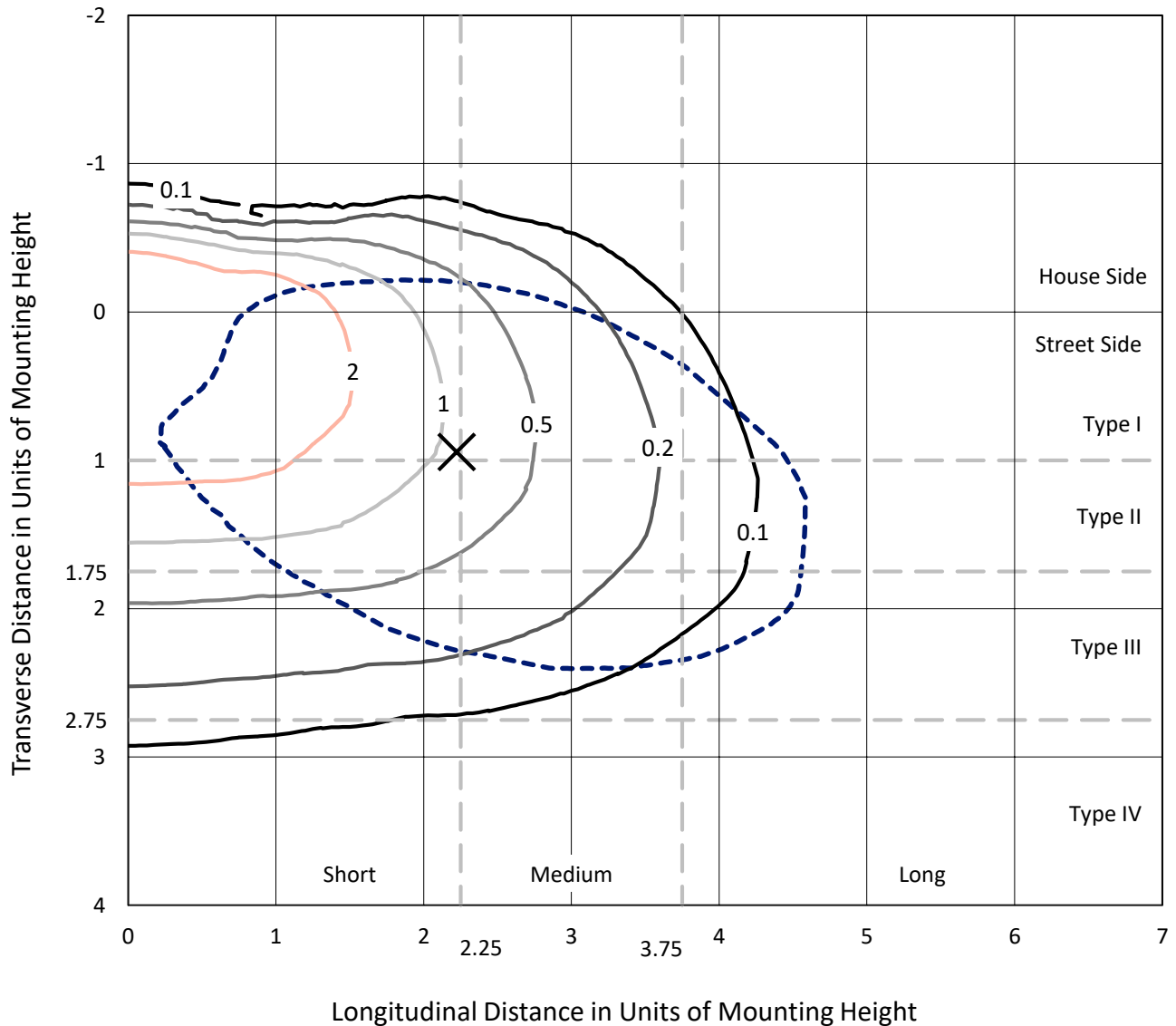
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509550
 CATALOG NUMBER: VERD-G-CA2-120-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

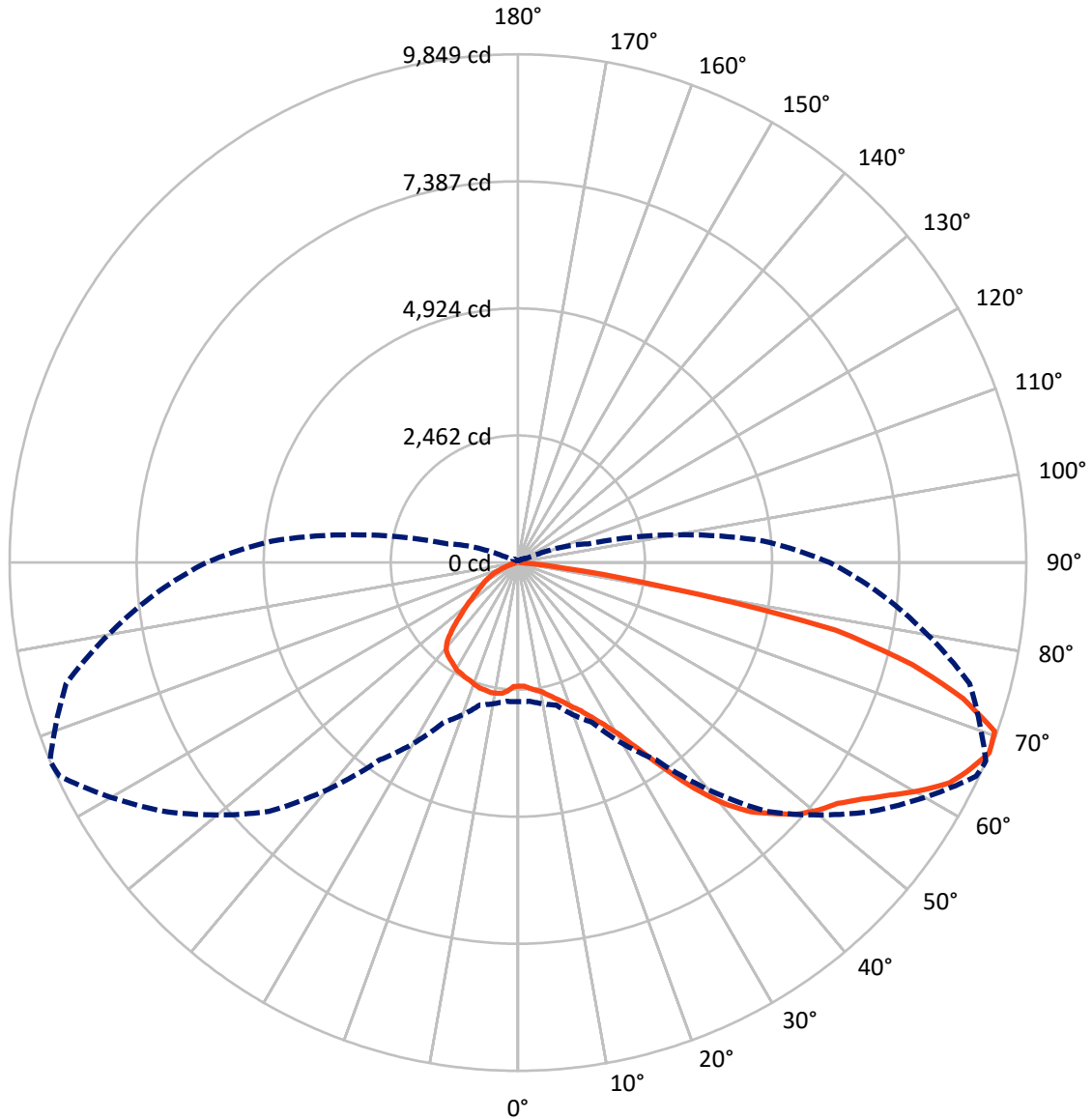
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P509550
CATALOG NUMBER: VERD-G-CA2-120-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509550

CATALOG NUMBER: VERD-G-CA2-120-730-U-T3-HSS

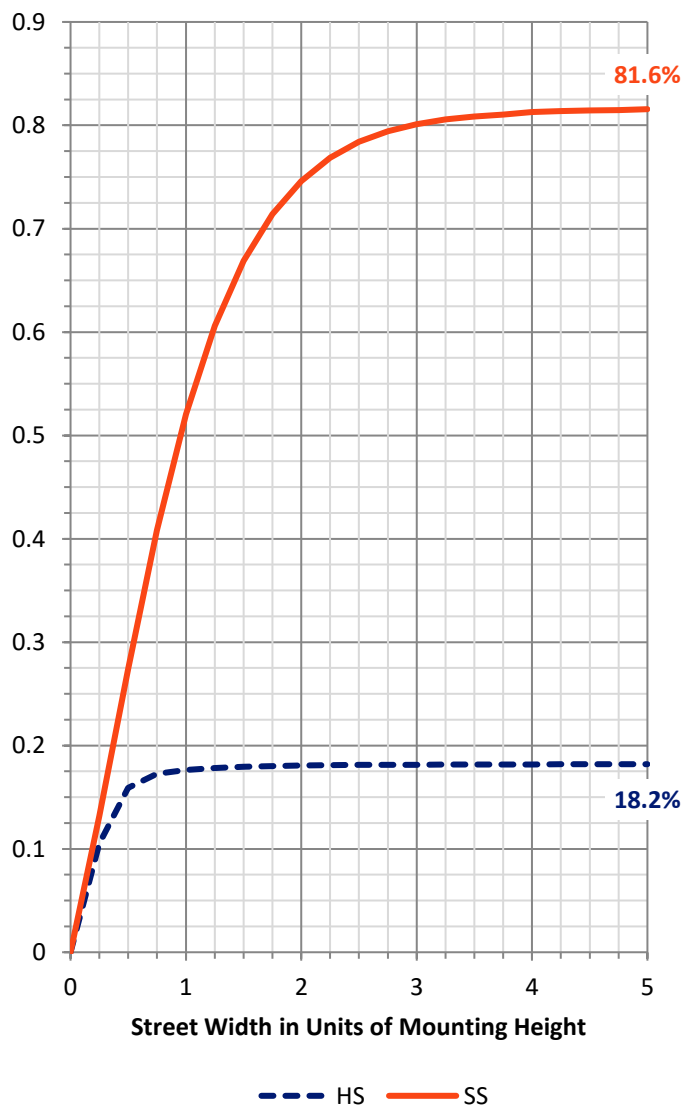
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2961.7	0.0	2961.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13129.3	0.0	13129.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	16091.0	0.0	16091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.5
10°-20°	753.2	4.7
20°-30°	1284.1	8.0
30°-40°	1958.6	12.2
40°-50°	2761.0	17.2
50°-60°	3337.3	20.7
60°-70°	3514.8	21.8
70°-80°	2090.8	13.0
80°-90°	150.3	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°	16091.0	100.0
0°-180°	16091.0	100.0

Coefficient of Utilization



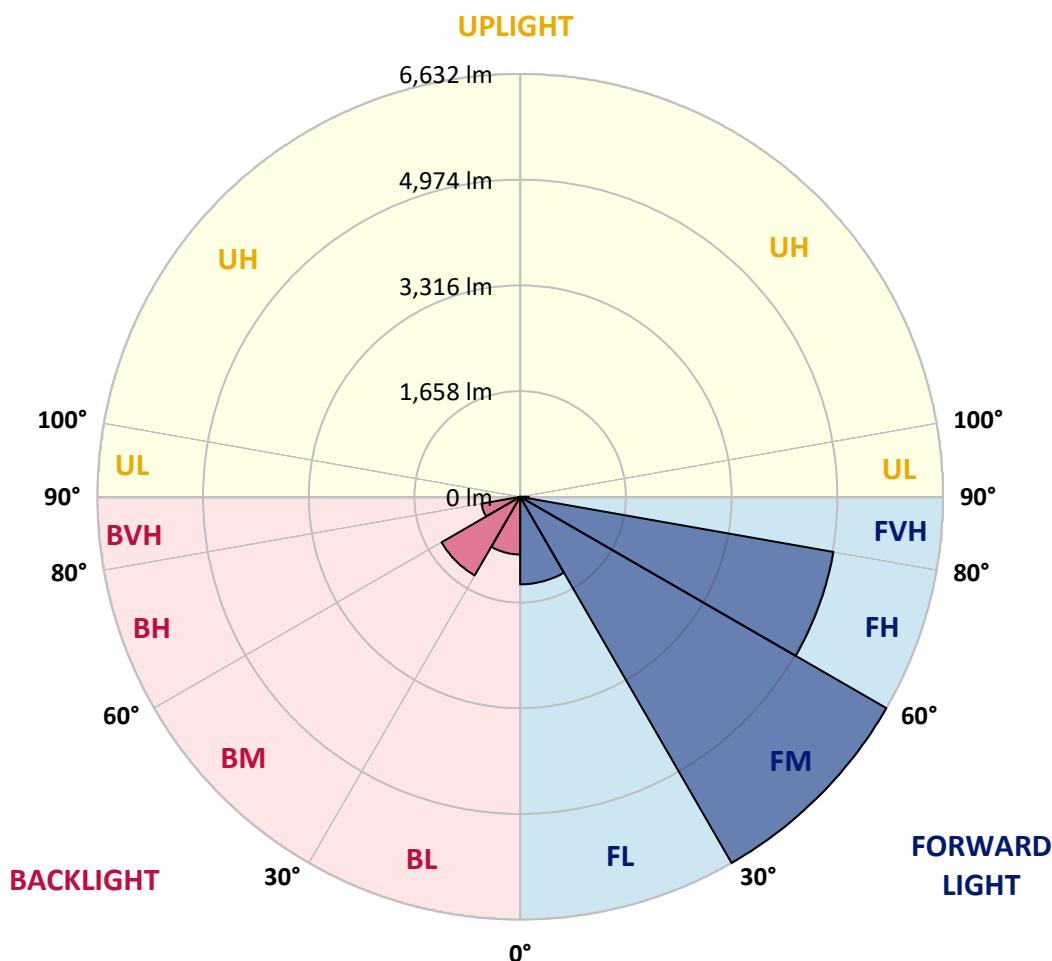
REPORT NUMBER: P509550
 CATALOG NUMBER: VERD-G-CA2-120-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.7	8.5			
FM (30°-60°)	6632.0	41.2			
FH (60°-80°)	4989.0	31.0			G2/5000
FVH (80°-90°)	134.5	0.8			G2/225
BL (0°-30°)	904.5	5.6	B2/1000		
BM (30°-60°)	1424.9	8.9	B2/2500		
BH (60°-80°)	616.6	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





REPORT NUMBER: P509550

CATALOG NUMBER: VERD-G-CA2-120-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4
2.5°	2446.1	2455.3	2436.9	2432.3	2408.1	2411.6	2407.0	2395.4	2400.0	2390.8	2396.6
5°	2540.5	2516.3	2509.4	2495.6	2473.7	2461.1	2442.6	2436.9	2449.5	2439.2	2441.5
7.5°	2640.6	2645.2	2614.2	2587.7	2548.5	2539.3	2507.1	2487.5	2500.2	2486.4	2494.4
10°	2766.1	2773.0	2739.6	2703.9	2670.6	2622.2	2581.9	2550.8	2547.4	2540.5	2552.0
12.5°	2930.7	2929.6	2892.7	2849.0	2783.4	2750.0	2672.9	2629.1	2634.9	2609.5	2607.2
15°	3121.8	3105.7	3063.1	3018.2	2936.5	2870.8	2777.6	2723.5	2732.7	2703.9	2697.0
17.5°	3308.3	3292.1	3258.8	3209.3	3134.4	3033.2	2919.2	2840.9	2838.6	2824.8	2783.4
20°	3499.3	3506.3	3461.4	3416.5	3341.6	3205.8	3076.9	2975.6	2977.9	2953.7	2873.1
22.5°	3722.7	3710.0	3655.9	3635.2	3550.0	3401.5	3257.6	3141.4	3118.3	3113.7	2974.4
25°	3935.6	3927.6	3878.1	3853.9	3782.5	3646.7	3460.2	3320.9	3317.5	3302.5	3105.7
27.5°	4104.8	4114.0	4109.4	4092.2	4013.9	3880.4	3716.9	3550.0	3552.3	3530.4	3276.0
30°	4345.4	4317.8	4307.4	4321.2	4314.3	4170.4	3996.6	3875.8	3867.7	3811.3	3491.3
32.5°	4485.8	4499.7	4513.5	4561.8	4563.0	4455.9	4343.1	4285.5	4317.8	4327.0	4026.6
35°	4614.8	4614.8	4694.2	4816.2	4858.8	4822.0	4773.6	4846.1	4909.4	5037.2	4685.0
37.5°	4729.9	4763.3	4838.1	4991.2	5130.5	5166.1	5272.0	5471.2	5548.3	5664.6	5239.8
40°	4826.6	4850.7	4946.3	5133.9	5373.3	5536.8	5734.8	6051.3	6131.9	6110.0	5548.3
42.5°	4719.5	4758.7	4911.7	5297.4	5599.0	5906.3	6165.3	6507.2	6605.0	6402.4	5872.9
45°	4662.0	4676.9	4836.9	5274.3	5764.7	6280.4	6573.9	6940.0	6940.0	6713.2	6102.0
47.5°	4546.8	4573.3	4763.3	5244.4	5940.8	6592.4	6889.3	7262.3	7286.5	7006.8	6329.9
50°	4430.6	4464.0	4679.2	5191.5	6039.8	6905.5	7157.5	7531.7	7540.9	7208.2	6531.3
52.5°	4315.5	4332.7	4573.3	5156.9	6149.2	7066.6	7388.9	7750.4	7755.0	7509.8	6753.5
55°	4109.4	4152.0	4400.7	5030.3	6143.4	7140.3	7509.8	8042.7	8087.6	7837.8	6972.2
57.5°	3916.0	3928.7	4200.4	4847.3	6050.2	7225.5	7769.9	8461.7	8505.5	8136.0	7134.5
60°	3658.2	3672.0	3964.4	4629.7	5912.1	7310.6	8100.3	8951.0	8970.5	8449.1	7256.5
62.5°	3388.8	3436.0	3676.6	4295.9	5625.4	7325.6	8380.0	9402.2	9394.1	8720.7	7337.1
65°	3072.3	3089.6	3320.9	3905.7	5186.9	7211.6	8495.1	9620.9	9640.5	8911.8	7284.2
67.5°	2692.4	2699.3	2858.2	3419.9	4667.7	6819.1	8399.6	9799.3	9848.8	9061.5	7063.2
70°	2127.2	2137.6	2283.8	2817.9	3931.0	6218.2	8238.4	9820.0	9799.3	8926.8	6727.0
72.5°	1482.6	1467.7	1610.4	1976.4	2976.7	5114.3	7460.3	8984.3	9021.2	8259.2	6023.7
75°	710.2	714.8	998.0	1215.6	1671.4	3653.6	6209.0	7736.6	7890.8	7197.8	4907.1
77.5°	120.9	123.2	263.6	478.9	673.4	1533.3	4117.5	6161.8	6293.1	5649.6	3322.1
80°	96.7	96.7	128.9	257.8	356.8	635.4	1559.7	2731.6	2874.3	2558.9	1224.8
82.5°	65.6	69.1	92.1	150.8	126.6	248.6	566.3	864.5	887.5	804.6	503.0
85°	36.8	38.0	47.2	61.0	53.0	92.1	116.3	118.6	125.5	97.8	74.8
87.5°	4.6	10.4	10.4	10.4	4.6	4.6	3.5	3.5	4.6	3.5	3.5
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: P509550

CATALOG NUMBER: VERD-G-CA2-120-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4	2395.4
2.5°	2393.1	2379.3	2409.3	2403.5	2424.2	2420.8	2438.0	2447.2	2466.8	2492.1	2489.8
5°	2443.8	2442.6	2478.3	2495.6	2514.0	2531.3	2532.4	2549.7	2567.0	2604.9	2603.8
7.5°	2492.1	2502.5	2553.1	2554.3	2561.2	2573.9	2556.6	2562.4	2567.0	2580.8	2585.4
10°	2548.5	2568.1	2569.3	2564.7	2542.8	2541.6	2502.5	2507.1	2486.4	2502.5	2494.4
12.5°	2621.1	2604.9	2595.7	2564.7	2531.3	2486.4	2449.5	2398.9	2387.4	2387.4	2390.8
15°	2692.4	2668.3	2588.8	2539.3	2478.3	2407.0	2347.1	2289.5	2260.8	2248.1	2245.8
17.5°	2754.6	2703.9	2591.1	2526.7	2411.6	2306.8	2217.0	2124.9	2080.0	2051.3	2046.7
20°	2805.2	2751.1	2598.0	2485.2	2339.0	2184.8	2049.0	1932.7	1844.1	1778.5	1785.4
22.5°	2890.4	2804.1	2593.4	2435.7	2255.0	2054.7	1849.8	1689.8	1541.3	1504.5	1514.8
25°	2992.9	2880.1	2619.9	2405.8	2157.2	1891.3	1621.9	1436.6	1277.7	1227.1	1230.5
27.5°	3111.4	2972.1	2649.8	2356.3	2055.9	1689.8	1365.2	1136.1	1009.5	909.4	901.3
30°	3300.2	3097.6	2682.1	2324.1	1914.3	1465.4	1085.5	847.2	688.4	634.3	634.3
32.5°	3743.4	3352.0	2733.9	2246.9	1727.8	1214.4	792.0	554.8	414.4	366.1	367.2
35°	4306.3	3865.4	2851.3	2152.6	1507.9	920.9	489.2	308.5	242.9	218.7	216.4
37.5°	4843.8	4337.3	3102.2	2042.1	1230.5	583.6	275.1	189.9	165.8	164.6	165.8
40°	5175.4	4710.3	3354.3	1894.7	899.0	321.2	178.4	155.4	151.9	148.5	148.5
42.5°	5481.5	4967.0	3545.4	1669.1	536.4	194.5	156.5	141.6	139.3	133.5	133.5
45°	5730.2	5151.2	3560.4	1368.7	284.3	172.7	143.9	128.9	124.3	120.9	119.7
47.5°	5966.2	5330.7	3506.3	1048.7	202.6	160.0	134.7	118.6	112.8	115.1	114.0
50°	6125.0	5510.3	3358.9	824.2	193.4	148.5	124.3	108.2	105.9	110.5	109.4
52.5°	6296.5	5657.7	3072.3	641.2	179.6	137.0	114.0	101.3	96.7	100.1	101.3
55°	6432.4	5655.4	2861.6	500.7	170.4	127.8	107.1	95.5	87.5	87.5	86.3
57.5°	6499.1	5601.3	2692.4	393.7	160.0	118.6	100.1	84.0	74.8	72.5	71.4
60°	6495.7	5548.3	2495.6	323.5	149.6	108.2	89.8	71.4	62.2	57.6	57.6
62.5°	6458.8	5424.0	2183.6	278.6	139.3	100.1	74.8	58.7	51.8	47.2	48.3
65°	6364.4	5184.6	1800.3	237.1	128.9	96.7	63.3	51.8	44.9	40.3	40.3
67.5°	6037.5	4782.8	1404.3	199.1	118.6	80.6	55.3	43.7	38.0	33.4	33.4
70°	5574.8	4170.4	924.3	168.1	105.9	70.2	49.5	38.0	32.2	27.6	26.5
72.5°	4751.7	3332.4	469.6	143.9	90.9	62.2	43.7	33.4	27.6	23.0	21.9
75°	3644.4	2244.6	292.4	115.1	71.4	55.3	39.1	29.9	23.0	17.3	16.1
77.5°	2173.3	903.6	207.2	80.6	48.3	43.7	32.2	24.2	18.4	12.7	12.7
80°	686.1	399.4	140.4	55.3	31.1	29.9	24.2	17.3	12.7	9.2	9.2
82.5°	387.9	253.2	94.4	36.8	21.9	19.6	13.8	10.4	8.1	6.9	6.9
85°	64.5	50.6	28.8	13.8	10.4	9.2	5.8	3.5	2.3	1.2	2.3
87.5°	3.5	3.5	4.6	4.6	4.6	3.5	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)