

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: P509143

Luminaire Tested: **VERD-CA2-110-760-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-760-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16040 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

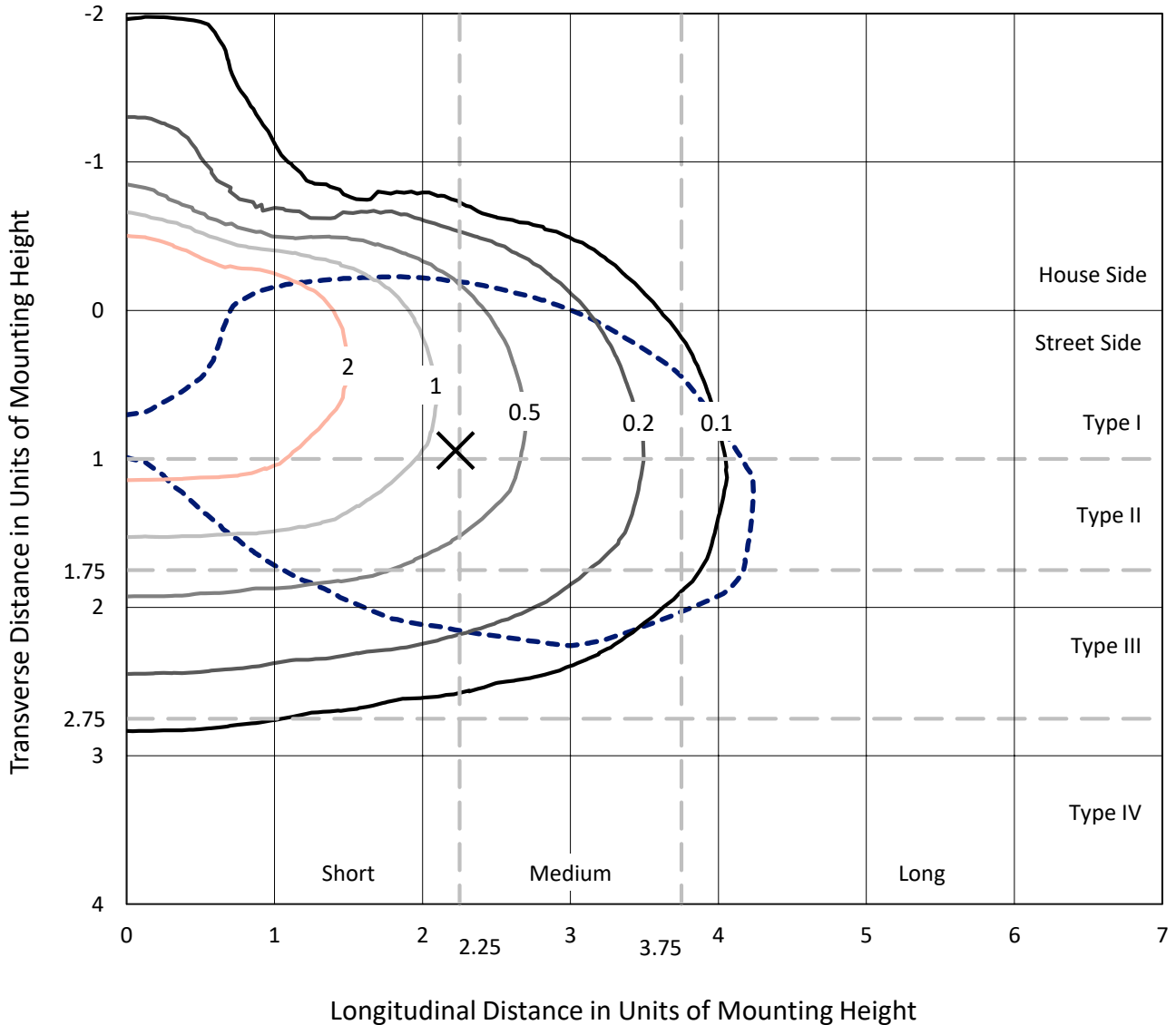
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509143
 CATALOG NUMBER: VERD-CA2-110-760-U-T3

Iso-Footcandle Lines of Horizontal Illumination

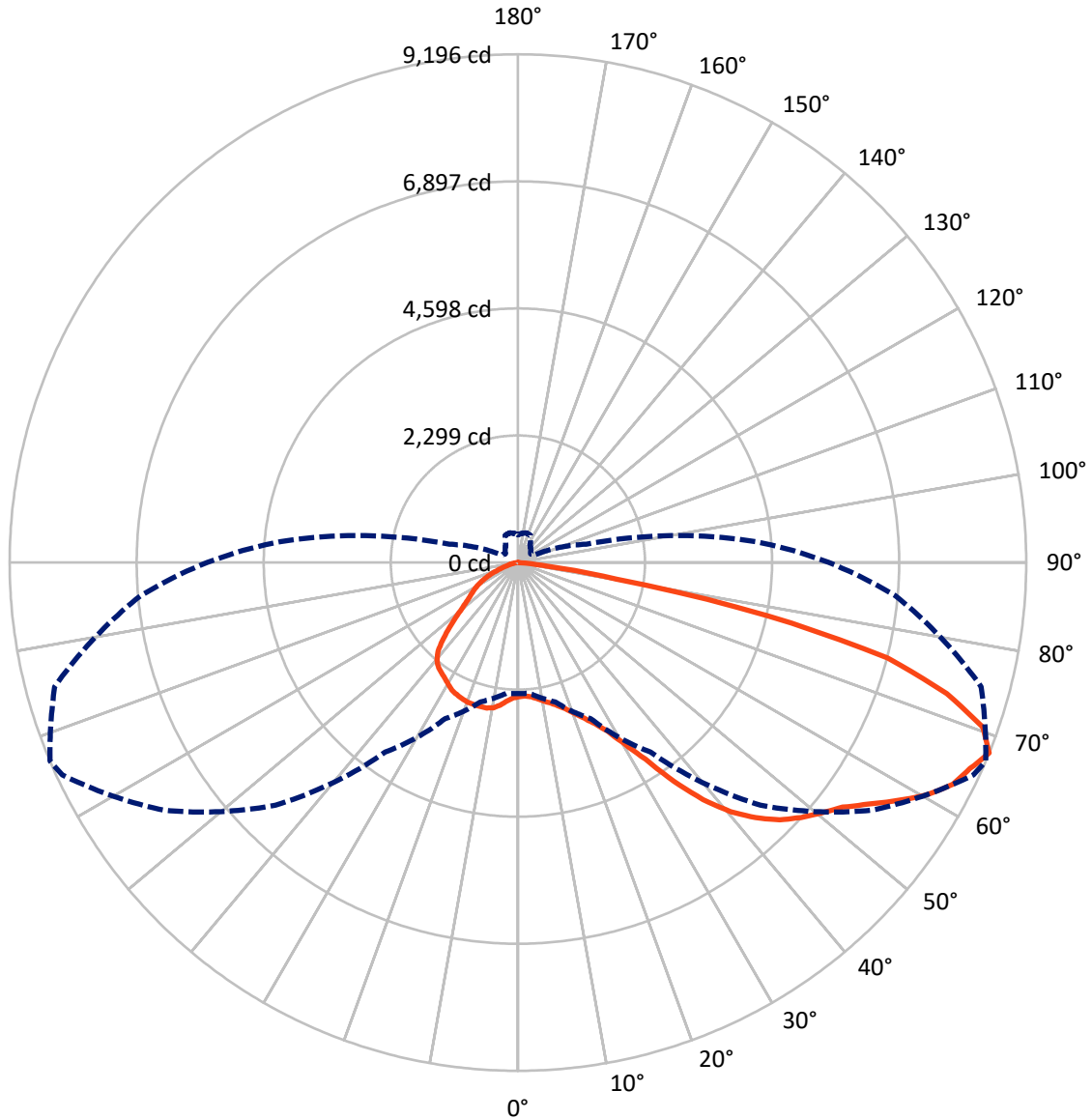
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

REPORT NUMBER: P509143
CATALOG NUMBER: VERD-CA2-110-760-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509143

CATALOG NUMBER: VERD-CA2-110-760-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3667.6	0.0	3667.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12372.3	0.0	12372.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	16040.0	0.0	16040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.5
10°-20°	786.5	4.9
20°-30°	1359.0	8.5
30°-40°	2062.8	12.9
40°-50°	2803.0	17.5
50°-60°	3333.6	20.8
60°-70°	3429.8	21.4
70°-80°	1871.0	11.7
80°-90°	148.7	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°	16040.0	100.0
0°-180°	16040.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509143

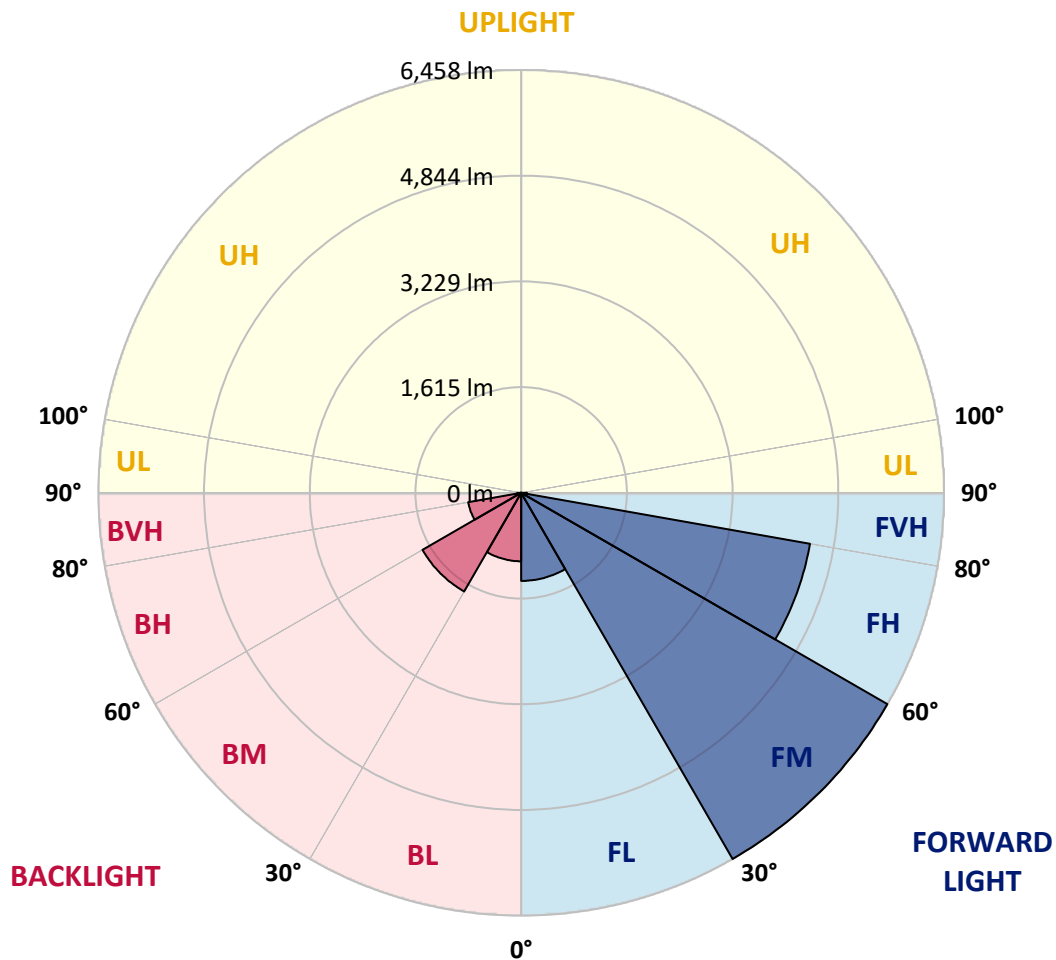
CATALOG NUMBER: VERD-CA2-110-760-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.4	8.4			
FM (30°-60°)	6458.4	40.3			
FH (60°-80°)	4479.6	27.9			G2/5000
FVH (80°-90°)	89.0	0.6			G1/100
BL (0°-30°)	1045.8	6.5	B3/2500		
BM (30°-60°)	1741.0	10.9	B2/2500		
BH (60°-80°)	821.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	59.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P509143

CATALOG NUMBER: VERD-CA2-110-760-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6
2.5°	2440.5	2430.1	2416.2	2421.4	2411.0	2428.3	2421.4	2417.9	2417.9	2419.6	2428.3
5°	2496.1	2485.6	2475.2	2473.5	2452.6	2459.6	2449.2	2438.7	2438.7	2437.0	2440.5
7.5°	2593.3	2579.4	2567.3	2565.5	2539.5	2536.0	2504.8	2483.9	2483.9	2482.2	2487.4
10°	2721.9	2716.7	2692.3	2676.7	2645.5	2624.6	2586.4	2553.4	2546.4	2536.0	2549.9
12.5°	2845.2	2843.5	2820.9	2803.5	2760.1	2723.6	2661.1	2615.9	2607.2	2595.1	2605.5
15°	2999.8	2984.2	2959.8	2949.4	2886.9	2831.3	2760.1	2692.3	2683.7	2669.8	2678.5
17.5°	3170.0	3161.3	3123.1	3111.0	3032.8	2968.5	2879.9	2793.1	2779.2	2760.1	2758.4
20°	3375.0	3359.4	3329.8	3295.1	3218.7	3126.6	3024.1	2925.1	2912.9	2897.3	2864.3
22.5°	3595.6	3578.2	3548.7	3512.2	3414.9	3317.7	3189.1	3064.1	3057.1	3046.7	2985.9
25°	3805.8	3776.2	3779.7	3745.0	3658.1	3534.8	3383.7	3234.3	3230.8	3229.1	3131.8
27.5°	4029.8	3998.6	3988.2	3976.0	3894.4	3778.0	3607.7	3465.3	3453.2	3454.9	3307.2
30°	4240.0	4226.1	4217.4	4208.8	4168.8	4064.6	3901.3	3774.5	3812.7	3809.2	3606.0
32.5°	4403.3	4392.9	4429.3	4471.0	4460.6	4373.8	4260.9	4203.5	4241.8	4365.1	4187.9
35°	4547.5	4542.3	4611.7	4700.3	4762.9	4700.3	4688.2	4776.7	4865.3	5070.3	4967.8
37.5°	4703.8	4696.8	4755.9	4907.0	5016.5	5035.6	5127.6	5355.2	5440.3	5645.2	5429.9
40°	4702.1	4710.7	4853.2	5046.0	5245.7	5407.3	5596.6	5817.2	5926.6	6023.9	5690.4
42.5°	4625.6	4630.8	4809.8	5176.3	5466.3	5784.2	5952.7	6235.8	6310.5	6329.6	5997.9
45°	4547.5	4550.9	4745.5	5157.2	5650.5	6136.8	6324.4	6583.2	6640.6	6574.5	6206.3
47.5°	4434.6	4457.1	4667.3	5138.0	5808.5	6461.6	6612.8	6869.8	6892.4	6809.0	6380.0
50°	4300.8	4313.0	4554.4	5075.5	5912.7	6663.1	6842.0	7074.8	7118.2	7024.4	6595.4
52.5°	4137.5	4148.0	4410.2	4992.1	5970.1	6817.7	7017.5	7295.4	7354.5	7312.8	6784.7
55°	3949.9	3955.1	4222.6	4856.7	5954.4	6885.5	7170.3	7608.1	7707.1	7604.6	6942.8
57.5°	3715.4	3734.5	4038.5	4653.4	5836.3	6970.6	7446.5	7993.7	8120.5	7901.6	7060.9
60°	3474.0	3493.1	3769.3	4417.2	5638.3	7008.8	7731.4	8408.8	8520.0	8183.0	7133.9
62.5°	3203.0	3229.1	3458.4	4061.1	5284.0	6958.4	7941.6	8771.8	8834.4	8351.5	7114.8
65°	2808.7	2822.6	3072.8	3632.1	4821.9	6696.1	7932.9	8966.4	8987.2	8537.4	7031.4
67.5°	2371.0	2372.7	2609.0	3114.4	4186.2	6206.3	7811.3	9093.2	9195.7	8674.6	6849.0
70°	1803.0	1827.3	2011.4	2386.6	3421.9	5369.1	7410.0	8968.1	8919.5	8299.4	6326.2
72.5°	1287.1	1273.2	1367.0	1620.6	2395.3	4142.7	6388.7	8103.1	8113.5	7559.4	5504.6
75°	684.4	687.9	767.8	981.4	1222.8	2695.8	5110.3	6845.5	6908.0	6482.5	4307.8
77.5°	152.9	173.7	264.0	375.2	531.5	863.3	2772.3	4490.1	4608.3	4266.1	2360.6
80°	118.1	119.9	173.7	213.7	234.5	413.4	880.7	1629.3	1808.2	1707.5	887.6
82.5°	78.2	79.9	114.6	118.1	112.9	189.3	399.5	488.1	536.7	469.0	330.0
85°	41.7	43.4	52.1	57.3	45.2	55.6	52.1	41.7	43.4	38.2	38.2
87.5°	8.7	5.2	6.9	5.2	5.2	3.5	5.2	5.2	5.2	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



REPORT NUMBER: P509143
 CATALOG NUMBER: VERD-CA2-110-760-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6
2.5°	2428.3	2431.8	2440.5	2454.4	2461.3	2477.0	2487.4	2513.4	2549.9	2537.8	2522.1
5°	2442.2	2452.6	2482.2	2518.6	2546.4	2588.1	2609.0	2659.3	2701.0	2697.6	2669.8
7.5°	2494.3	2516.9	2553.4	2607.2	2654.1	2695.8	2725.4	2779.2	2817.4	2801.8	2775.7
10°	2560.3	2582.9	2622.9	2671.5	2706.2	2751.4	2770.5	2813.9	2838.3	2819.2	2796.6
12.5°	2621.1	2633.3	2661.1	2697.6	2716.7	2746.2	2754.9	2786.1	2808.7	2800.0	2772.3
15°	2680.2	2678.5	2683.7	2694.1	2701.0	2708.0	2709.7	2732.3	2747.9	2730.6	2711.5
17.5°	2746.2	2728.8	2706.2	2688.9	2662.8	2650.7	2628.1	2638.5	2636.8	2622.9	2607.2
20°	2829.6	2798.3	2728.8	2675.0	2607.2	2553.4	2506.5	2497.8	2497.8	2459.6	2457.9
22.5°	2928.6	2876.5	2760.1	2642.0	2532.5	2447.4	2360.6	2310.2	2273.7	2245.9	2233.8
25°	3057.1	2961.6	2787.9	2596.8	2435.3	2280.7	2150.4	2080.9	2011.4	1966.3	1959.3
27.5°	3194.3	3090.1	2805.3	2556.9	2301.5	2089.6	1909.0	1766.5	1702.3	1672.7	1644.9
30°	3418.4	3234.3	2836.5	2471.8	2133.0	1855.1	1615.4	1448.7	1386.1	1365.3	1347.9
32.5°	3962.1	3607.7	2866.0	2384.9	1952.4	1596.3	1280.2	1139.5	1085.6	1106.5	1113.4
35°	4643.0	4163.6	3006.7	2284.2	1764.8	1302.7	984.9	891.1	894.6	925.8	936.2
37.5°	5105.0	4653.4	3293.4	2157.4	1495.6	965.8	762.5	733.0	759.1	786.9	792.1
40°	5376.0	4877.5	3494.8	2001.0	1177.7	722.6	573.2	552.4	607.9	670.5	708.7
42.5°	5664.4	5068.6	3599.1	1797.8	826.8	522.8	439.5	455.1	543.7	597.5	621.8
45°	5818.9	5217.9	3552.2	1507.7	562.8	406.5	394.3	437.7	526.3	574.9	581.9
47.5°	5985.7	5367.3	3439.3	1205.5	430.8	385.6	387.4	439.5	529.8	581.9	581.9
50°	6129.9	5490.7	3237.8	944.9	409.9	371.7	389.1	448.1	535.0	580.2	578.4
52.5°	6296.6	5546.2	2951.2	764.3	389.1	359.6	390.8	455.1	526.3	552.4	548.9
55°	6348.7	5506.3	2813.9	639.2	373.5	352.6	397.8	465.5	522.8	528.0	519.4
57.5°	6348.7	5398.6	2657.6	545.4	359.6	352.6	401.2	463.8	541.9	574.9	571.5
60°	6320.9	5285.7	2417.9	488.1	340.5	349.1	403.0	489.8	644.4	680.9	679.2
62.5°	6232.4	5103.3	2122.6	430.8	321.3	350.9	397.8	526.3	736.5	720.9	682.6
65°	6022.2	4759.4	1721.4	378.7	300.5	350.9	390.8	578.4	654.8	625.3	611.4
67.5°	5626.1	4326.9	1280.2	324.8	276.2	328.3	380.4	541.9	555.8	522.8	502.0
70°	5103.3	3665.1	821.6	274.4	250.1	309.2	373.5	508.9	536.7	496.8	470.7
72.5°	4252.2	2911.2	475.9	224.1	211.9	284.9	359.6	493.3	528.0	474.2	437.7
75°	2999.8	1837.7	312.7	165.0	170.2	243.2	333.5	462.0	495.0	429.0	376.9
77.5°	1528.6	689.6	222.3	121.6	114.6	185.9	288.3	425.6	488.1	432.5	370.0
80°	540.2	347.4	145.9	79.9	74.7	114.6	220.6	361.3	458.6	422.1	409.9
82.5°	231.0	173.7	79.9	50.4	45.2	57.3	125.1	284.9	403.0	382.1	462.0
85°	33.0	29.5	22.6	19.1	19.1	26.1	40.0	140.7	272.7	310.9	376.9
87.5°	5.2	5.2	5.2	3.5	3.5	3.5	1.7	20.8	90.3	135.5	187.6
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)