

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: P509085

Luminaire Tested: **VERD-CA2-100-750-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-750-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14116 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

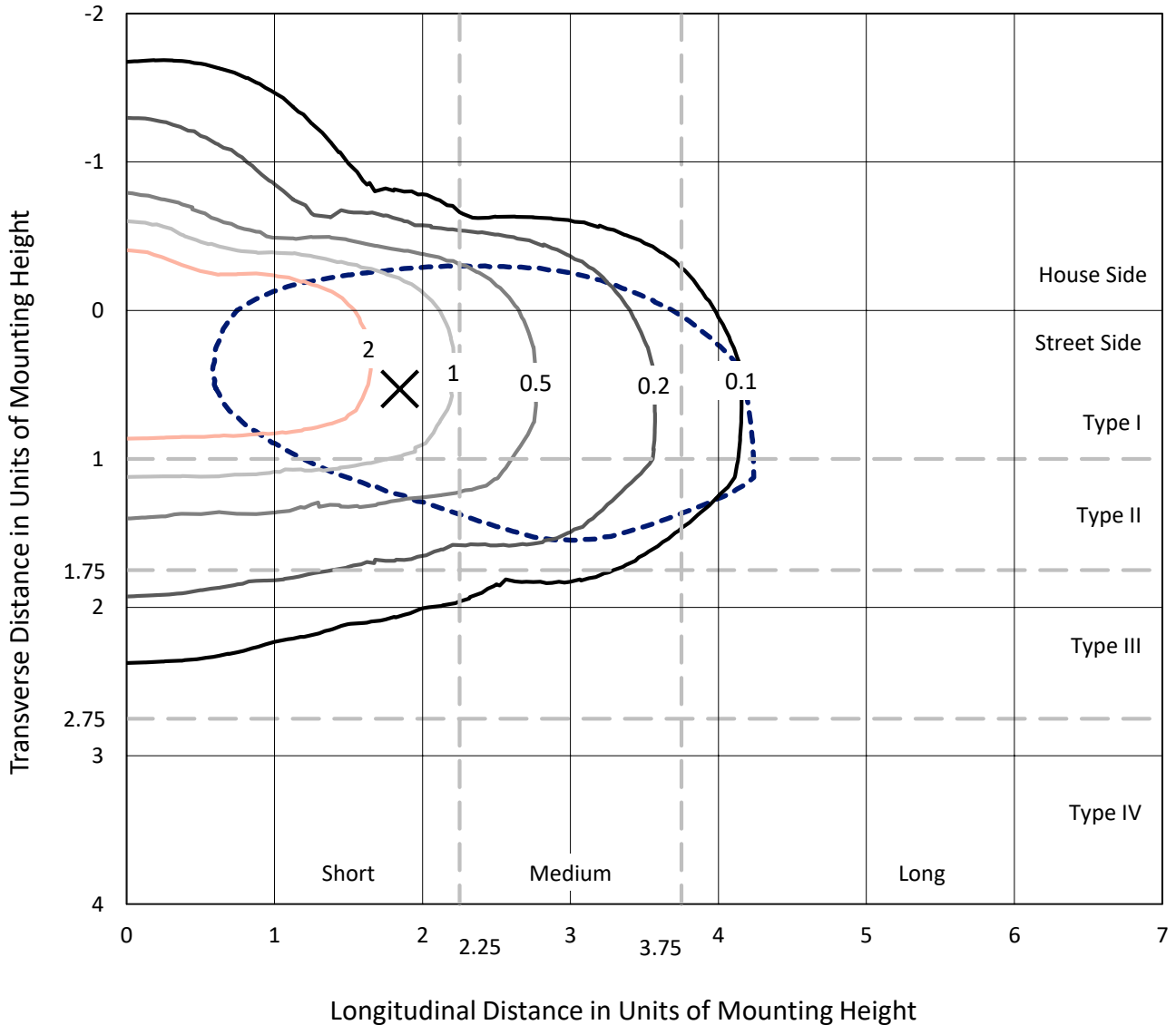
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509085
 CATALOG NUMBER: VERD-CA2-100-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

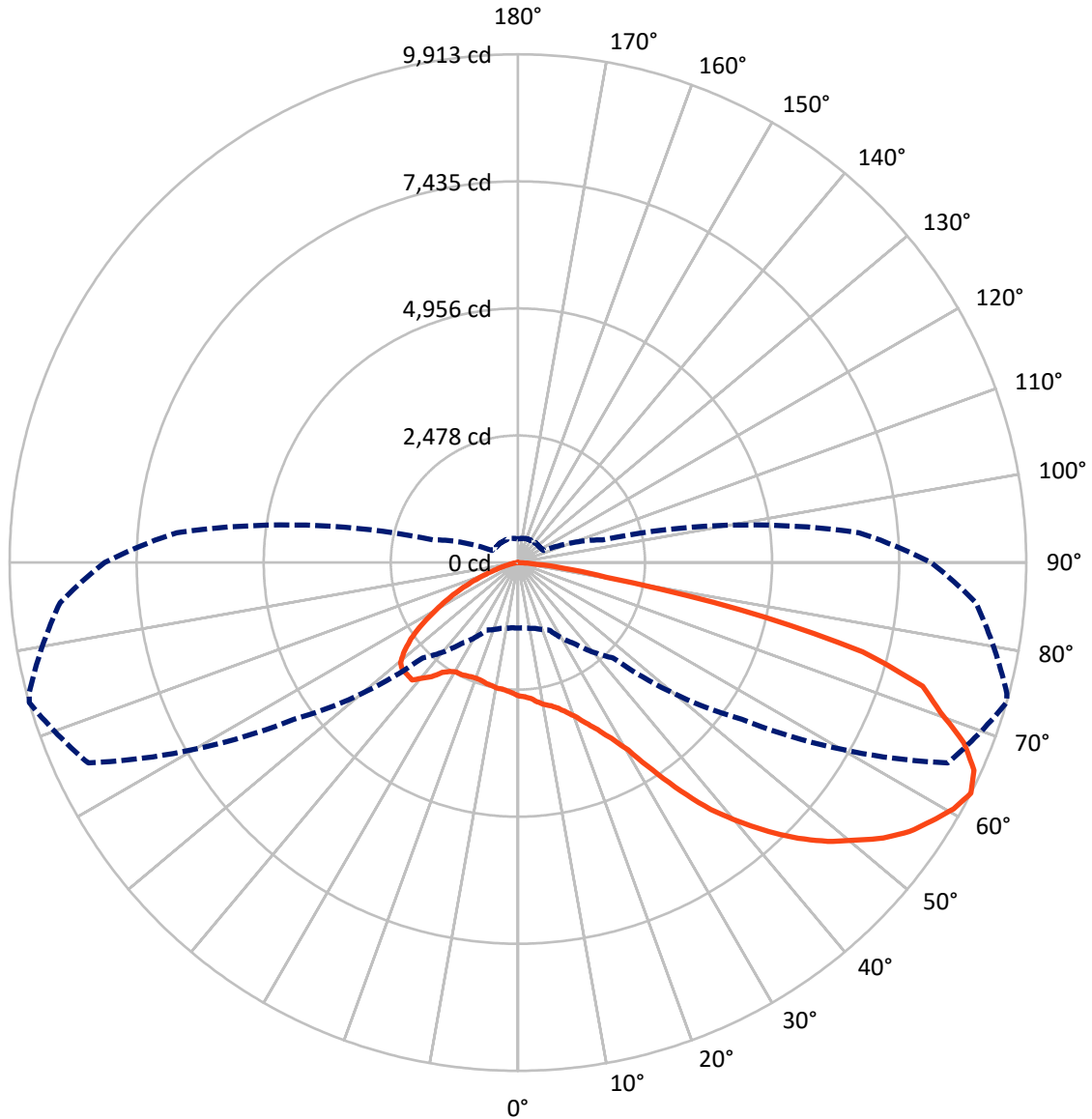
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P509085
CATALOG NUMBER: VERD-CA2-100-750-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509085

CATALOG NUMBER: VERD-CA2-100-750-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.9	0.0	3644.9
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	10471.1	0.0	10471.1
	% Fixture	74.2	0.0	74.2
Total	Lumens	14116.0	0.0	14116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.8
10°-20°	762.6	5.4
20°-30°	1285.8	9.1
30°-40°	1878.7	13.3
40°-50°	2501.5	17.7
50°-60°	2878.8	20.4
60°-70°	2781.9	19.7
70°-80°	1601.4	11.3
80°-90°	175.2	1.2
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°	14116.0	100.0
0°-180°	14116.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509085

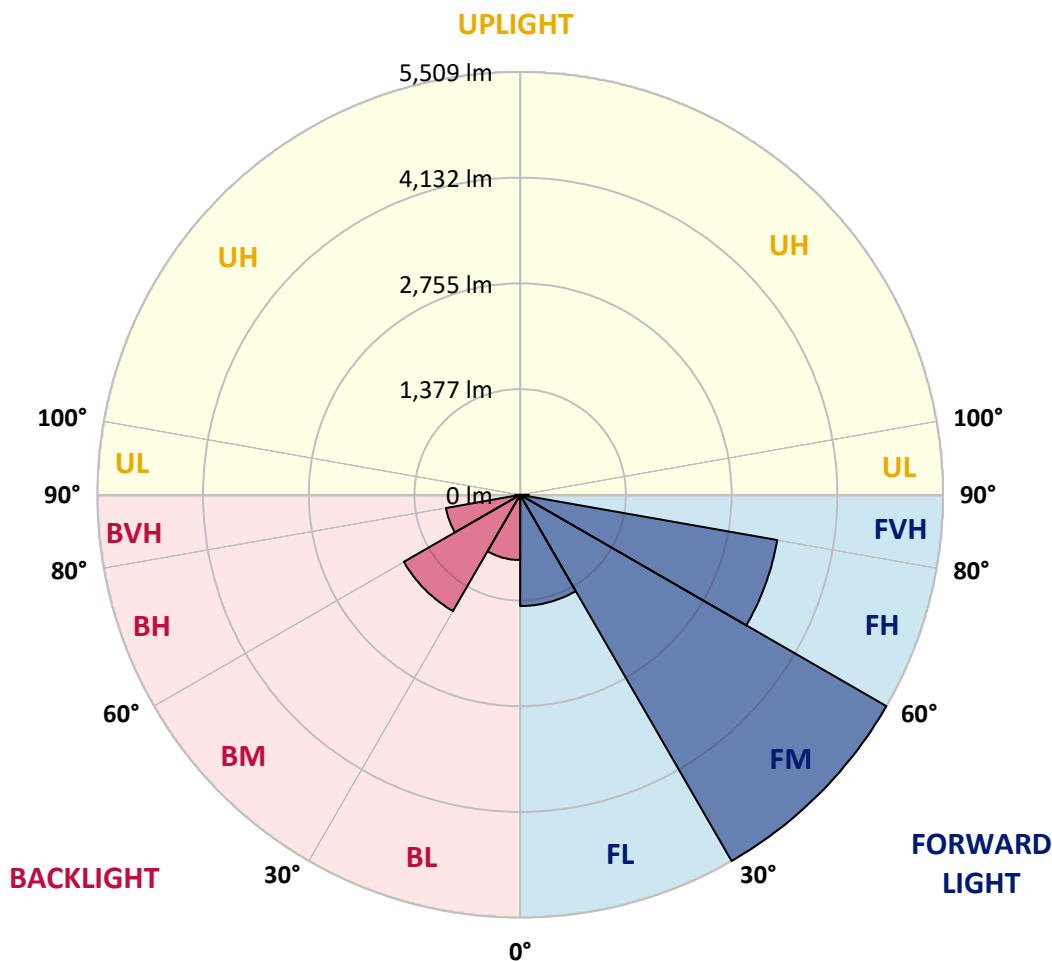
CATALOG NUMBER: VERD-CA2-100-750-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.8	10.3			
FM (30°-60°)	5509.5	39.0			
FH (60°-80°)	3402.1	24.1			G2/5000
FVH (80°-90°)	110.8	0.8			G2/225
BL (0°-30°)	849.8	6.0	B2/1000		
BM (30°-60°)	1749.5	12.4	B2/2500		
BH (60°-80°)	981.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	64.4	0.5			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 II Short





REPORT NUMBER: P509085

CATALOG NUMBER: VERD-CA2-100-750-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9
2.5°	2786.1	2766.1	2753.8	2739.9	2723.0	2716.8	2679.9	2647.6	2621.4	2622.9	2606.0
5°	2887.7	2866.1	2838.4	2833.8	2812.3	2807.6	2772.2	2721.4	2664.5	2656.8	2606.0
7.5°	3001.6	2989.3	2972.3	2950.8	2915.4	2892.3	2841.5	2801.5	2743.0	2735.3	2635.2
10°	3140.1	3130.9	3118.6	3118.6	3072.4	3023.1	2961.6	2861.5	2815.3	2807.6	2686.0
12.5°	3303.3	3275.6	3235.6	3212.5	3169.4	3138.6	3072.4	2966.2	2866.1	2863.1	2733.8
15°	3409.5	3386.4	3360.2	3351.0	3295.6	3244.8	3174.0	3089.3	2949.3	2938.5	2792.2
17.5°	3528.0	3506.5	3475.7	3458.8	3423.4	3364.9	3301.7	3190.9	3066.2	3055.5	2858.4
20°	3594.2	3571.1	3561.9	3565.0	3552.6	3523.4	3448.0	3347.9	3204.8	3190.9	2949.3
22.5°	3668.1	3652.7	3655.8	3678.9	3702.0	3691.2	3632.7	3521.9	3398.7	3377.2	3095.5
25°	3669.6	3657.3	3698.9	3788.2	3837.4	3862.0	3831.3	3740.4	3609.6	3589.6	3281.7
27.5°	3695.8	3677.3	3722.0	3815.9	3965.2	4016.0	4026.7	3992.9	3880.5	3855.9	3504.9
30°	3628.1	3615.8	3683.5	3846.7	4022.1	4191.4	4253.0	4305.4	4242.2	4243.8	3849.7
32.5°	3511.1	3489.5	3592.7	3792.8	4119.1	4350.0	4513.2	4724.0	4821.0	4811.8	4450.0
35°	3287.9	3300.2	3438.7	3745.1	4122.2	4511.6	4831.8	5208.9	5472.1	5466.0	5071.9
37.5°	3129.3	3123.2	3286.4	3611.1	4120.6	4654.8	5141.2	5769.2	6109.4	6100.2	5606.0
40°	2938.5	2940.0	3103.2	3444.9	4048.3	4744.0	5461.4	6300.3	6646.6	6632.7	6117.1
42.5°	2733.8	2739.9	2892.3	3241.7	3948.2	4811.8	5747.7	6837.5	7173.0	7185.3	6526.5
45°	2550.6	2553.7	2704.5	3024.7	3771.2	4819.5	6004.7	7345.4	7671.8	7642.5	6956.0
47.5°	2281.2	2284.3	2507.5	2818.4	3537.3	4756.4	6217.1	7828.8	8127.4	8065.8	7319.3
50°	1787.1	1793.3	2058.0	2604.5	3252.5	4611.7	6384.9	8282.8	8513.7	8487.6	7691.8
52.5°	1650.1	1645.5	1756.3	2348.9	2997.0	4350.0	6491.1	8690.8	8924.7	8921.6	7999.6
55°	1580.8	1576.2	1613.2	1904.1	2746.1	3962.1	6488.1	9007.8	9264.9	9201.8	8281.3
57.5°	1457.7	1448.5	1543.9	1687.0	2465.9	3478.8	6334.1	9292.6	9511.2	9492.7	8535.3
60°	1370.0	1362.3	1426.9	1559.3	2167.3	2987.7	5938.5	9440.4	9759.0	9766.7	8749.2
62.5°	1279.1	1274.5	1329.9	1453.1	1933.3	2629.1	5329.0	9246.4	9912.9	9871.4	8963.2
65°	1176.0	1172.9	1225.3	1325.3	1700.9	2356.6	4731.7	8900.1	9774.4	9822.1	8990.9
67.5°	1052.9	1051.3	1102.1	1171.4	1446.9	2082.6	3817.4	8492.2	9378.8	9326.5	8635.3
70°	902.0	895.9	959.0	1023.6	1211.4	1771.7	2970.8	7767.2	8735.4	8924.7	7927.3
72.5°	758.9	755.8	815.8	863.5	1003.6	1446.9	2167.3	6717.4	8253.6	7981.1	7142.2
75°	594.2	578.8	641.9	686.5	791.2	1151.4	1477.7	4487.0	6946.8	6889.8	6000.1
77.5°	240.1	278.6	332.5	372.5	441.8	652.7	772.7	2128.8	4431.6	4627.1	4173.0
80°	92.4	98.5	237.0	267.8	297.1	375.6	297.1	897.4	1748.6	1907.2	2416.7
82.5°	52.3	58.5	117.0	112.4	110.8	95.4	110.8	440.2	912.8	1000.5	1166.8
85°	29.2	32.3	47.7	52.3	44.6	38.5	33.9	115.4	227.8	215.5	241.7
87.5°	4.6	6.2	7.7	7.7	4.6	4.6	4.6	6.2	6.2	6.2	7.7
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: P509085
 CATALOG NUMBER: VERD-CA2-100-750-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9	2602.9
2.5°	2589.1	2572.1	2555.2	2535.2	2510.6	2495.2	2489.0	2496.7	2518.3	2492.1	2470.5
5°	2579.8	2556.7	2518.3	2479.8	2449.0	2422.8	2387.4	2384.3	2390.5	2379.7	2352.0
7.5°	2599.8	2566.0	2487.5	2461.3	2396.7	2335.1	2315.1	2307.4	2288.9	2267.4	2241.2
10°	2639.9	2570.6	2490.5	2413.6	2353.6	2287.4	2210.4	2211.9	2204.2	2179.6	2155.0
12.5°	2659.9	2578.3	2461.3	2379.7	2287.4	2205.8	2130.4	2096.5	2110.3	2090.3	2064.2
15°	2696.8	2610.6	2450.5	2330.5	2204.2	2111.9	2054.9	2005.7	1974.9	1979.5	1964.1
17.5°	2766.1	2639.9	2422.8	2276.6	2139.6	2030.3	1921.0	1916.4	1870.2	1844.1	1821.0
20°	2838.4	2692.2	2419.7	2218.1	2034.9	1899.5	1811.7	1762.5	1734.8	1713.2	1696.3
22.5°	2932.3	2764.5	2430.5	2184.2	1941.0	1788.6	1676.3	1610.1	1565.4	1550.1	1537.7
25°	3064.7	2855.4	2459.8	2124.2	1842.5	1667.0	1514.6	1445.4	1394.6	1382.3	1373.0
27.5°	3246.3	2970.8	2489.0	2059.6	1727.1	1496.2	1334.6	1266.8	1209.9	1208.3	1191.4
30°	3532.6	3147.8	2499.8	2002.6	1603.9	1313.0	1151.4	1088.3	1045.2	1028.2	1040.6
32.5°	4066.8	3538.8	2567.5	1914.9	1448.5	1134.4	997.5	946.7	898.9	880.5	892.8
35°	4644.0	4006.7	2681.4	1854.8	1277.6	965.1	871.2	811.2	752.7	743.5	738.9
37.5°	5067.3	4433.1	2896.9	1756.3	1116.0	862.0	738.9	689.6	655.7	637.3	654.2
40°	5547.6	4787.1	3060.1	1651.6	951.3	752.7	615.7	600.3	584.9	572.6	591.1
42.5°	5927.8	5152.0	3254.0	1513.1	818.9	638.8	548.0	560.3	568.0	561.8	563.4
45°	6277.2	5422.9	3266.3	1302.2	698.8	554.1	528.0	552.6	571.1	568.0	566.5
47.5°	6618.9	5746.1	3295.6	1079.0	612.6	532.6	529.5	548.0	572.6	577.2	577.2
50°	6971.4	5992.4	3251.0	868.2	580.3	535.7	534.1	532.6	563.4	564.9	569.5
52.5°	7236.1	6192.5	3040.1	717.3	578.8	544.9	541.8	526.4	540.3	551.1	543.4
55°	7516.3	6441.9	2773.8	660.3	575.7	548.0	560.3	534.1	524.9	515.7	524.9
57.5°	7782.6	6615.8	2424.4	626.5	563.4	543.4	568.0	532.6	512.6	486.4	477.2
60°	7987.3	6655.8	2034.9	591.1	548.0	532.6	534.1	521.8	495.6	463.3	449.5
62.5°	8056.6	6678.9	1711.7	557.2	517.2	515.7	503.3	498.7	488.0	467.9	461.8
65°	7998.1	6417.2	1366.9	515.7	491.0	492.6	474.1	458.7	434.1	401.8	398.7
67.5°	7596.3	5957.0	1048.2	463.3	451.0	466.4	446.4	420.2	392.5	371.0	374.0
70°	6908.3	5412.1	735.8	391.0	404.8	432.5	424.8	391.0	360.2	341.7	344.8
72.5°	6143.3	4585.5	500.3	304.8	329.4	387.9	387.9	364.8	334.0	309.4	303.2
75°	4845.6	3601.9	323.2	201.6	217.0	317.1	343.3	307.9	274.0	258.6	252.4
77.5°	3289.4	2345.9	206.3	115.4	144.7	207.8	270.9	275.5	324.8	326.3	312.5
80°	1933.3	1342.2	126.2	67.7	72.3	120.1	217.0	272.5	344.8	243.2	223.2
82.5°	962.0	572.6	57.0	41.6	43.1	60.0	117.0	312.5	266.3	152.4	146.2
85°	214.0	93.9	23.1	21.5	24.6	30.8	60.0	258.6	163.2	123.1	120.1
87.5°	7.7	6.2	6.2	6.2	4.6	4.6	12.3	84.7	64.6	53.9	50.8
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)