

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: P509149

Luminaire Tested: **VERD-CA2-120-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509149
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-CA2-120-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13896 lumens
Efficiency: N/A
Efficacy: 113.3 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

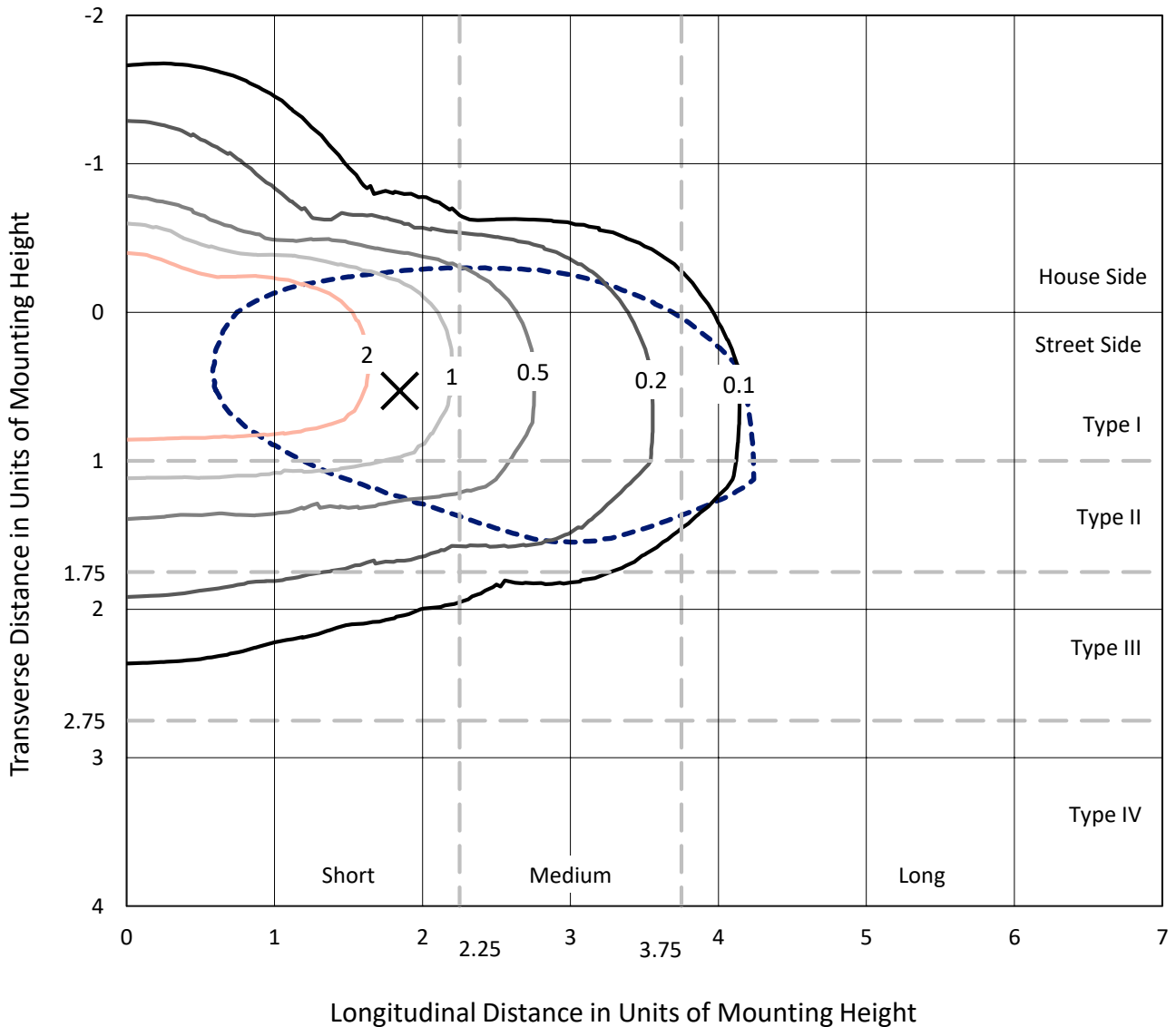
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

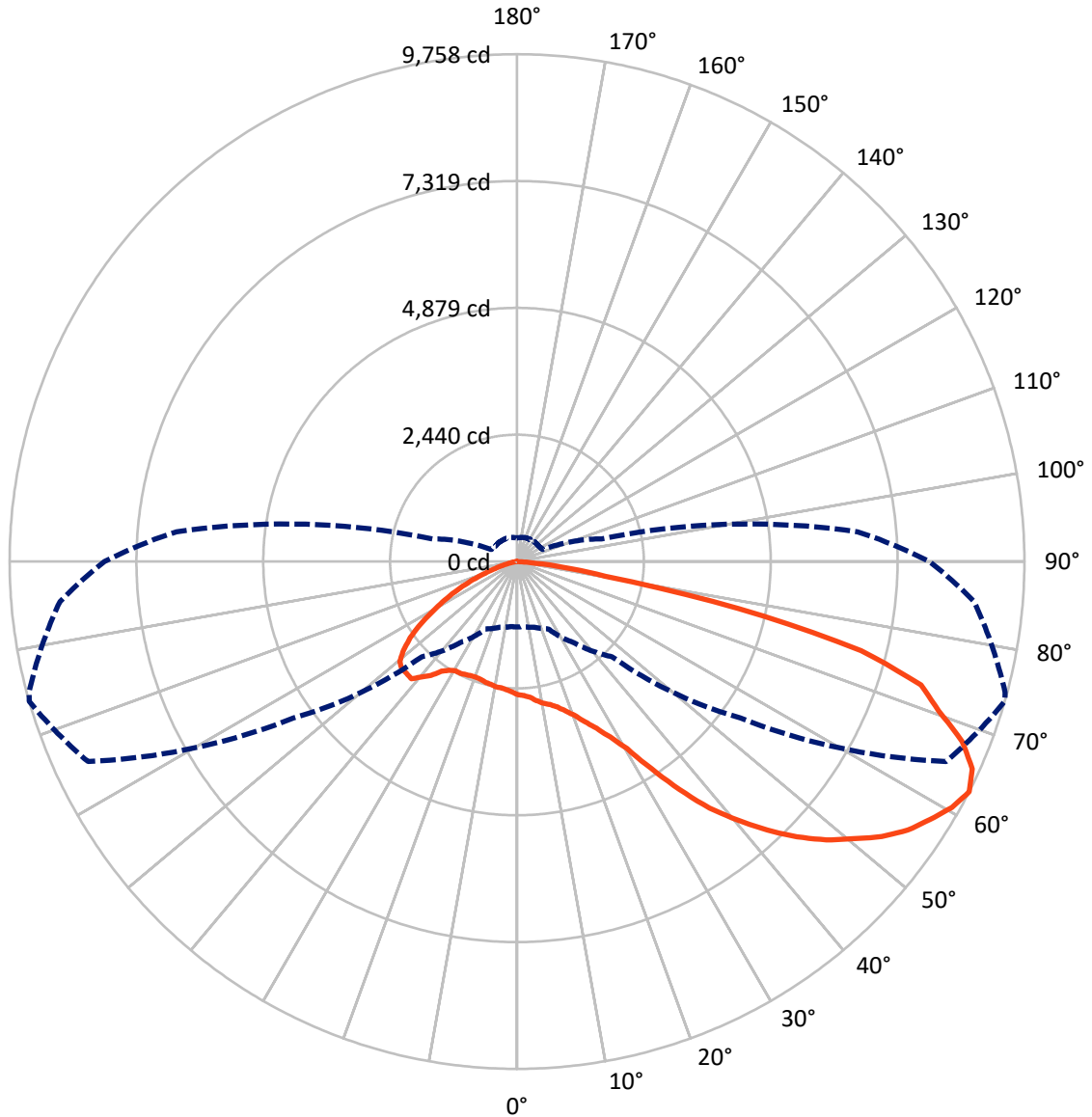
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3588.0	0.0	3588.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	10307.9	0.0	10307.9
	% Fixture	74.2	0.0	74.2
Total	Lumens	13896.0	0.0	13896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	1.8
10°-20°	750.7	5.4
20°-30°	1265.8	9.1
30°-40°	1849.4	13.3
40°-50°	2462.5	17.7
50°-60°	2833.9	20.4
60°-70°	2738.5	19.7
70°-80°	1576.5	11.3
80°-90°	172.5	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°	13896.0	100.0
0°-180°	13896.0	100.0

Coefficient of Utilization



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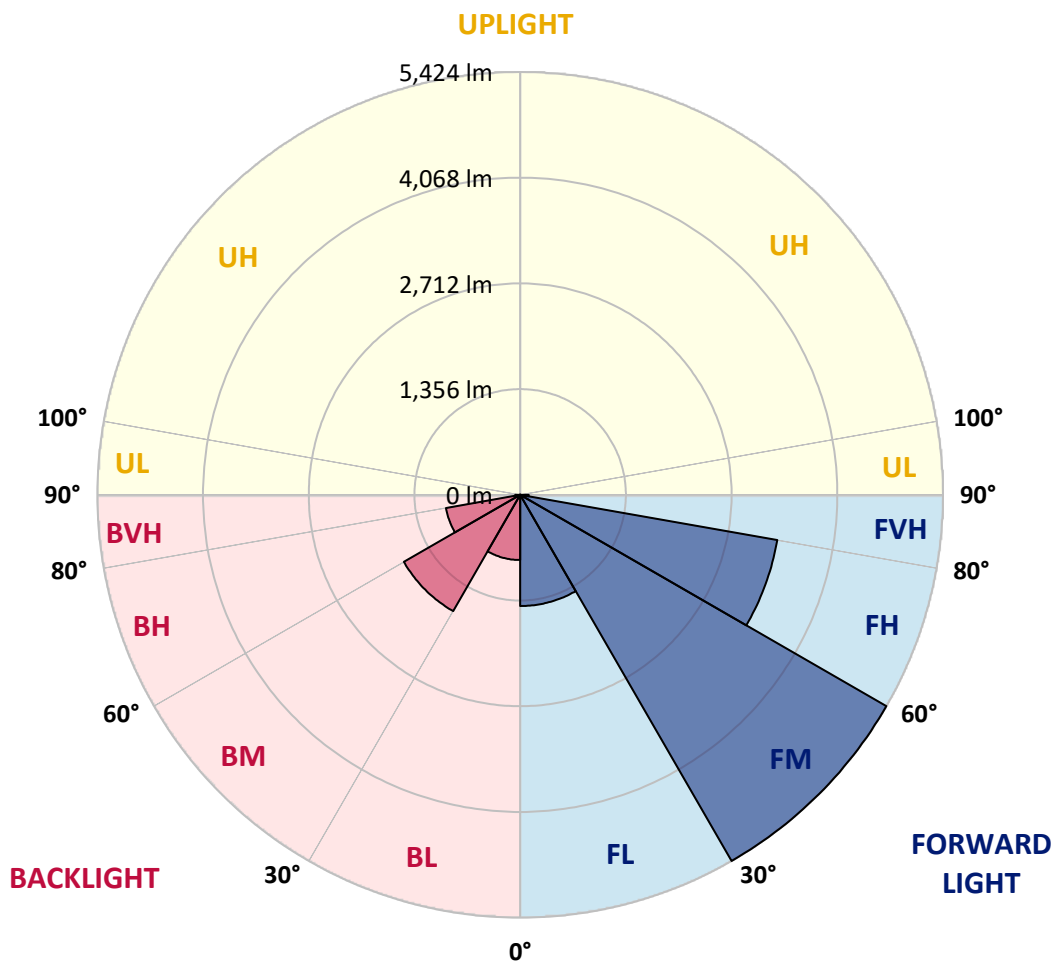
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.2	10.3			
FM (30°-60°)	5423.6	39.0			
FH (60°-80°)	3349.0	24.1			G2/5000
FVH (80°-90°)	109.1	0.8			G2/225
BL (0°-30°)	836.5	6.0	B2/1000		
BM (30°-60°)	1722.2	12.4	B2/2500		
BH (60°-80°)	965.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	63.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3
2.5°	2742.7	2723.0	2710.8	2697.2	2680.5	2674.5	2638.1	2606.3	2580.5	2582.0	2565.4
5°	2842.7	2821.5	2794.2	2789.6	2768.4	2763.9	2729.0	2679.0	2623.0	2615.4	2565.4
7.5°	2954.8	2942.7	2926.0	2904.8	2870.0	2847.2	2797.2	2757.8	2700.2	2692.7	2594.2
10°	3091.2	3082.1	3070.0	3070.0	3024.5	2976.0	2915.4	2816.9	2771.5	2763.9	2644.2
12.5°	3251.8	3224.5	3185.1	3162.4	3120.0	3089.7	3024.5	2920.0	2821.5	2818.4	2691.1
15°	3356.4	3333.6	3307.9	3298.8	3244.2	3194.2	3124.5	3041.2	2903.3	2892.7	2748.7
17.5°	3473.0	3451.8	3421.5	3404.8	3370.0	3312.4	3250.3	3141.2	3018.5	3007.8	2813.9
20°	3538.2	3515.5	3506.4	3509.4	3497.3	3468.5	3394.2	3295.7	3154.8	3141.2	2903.3
22.5°	3610.9	3595.8	3598.8	3621.5	3644.3	3633.7	3576.1	3467.0	3345.8	3324.5	3047.2
25°	3612.4	3600.3	3641.2	3729.1	3777.6	3801.9	3771.5	3682.1	3553.3	3533.6	3230.6
27.5°	3638.2	3620.0	3664.0	3756.4	3903.4	3953.4	3964.0	3930.7	3820.0	3795.8	3450.3
30°	3571.5	3559.4	3626.1	3786.7	3959.4	4126.1	4186.7	4238.3	4176.1	4177.6	3789.7
32.5°	3456.4	3435.2	3536.7	3733.7	4054.9	4282.2	4442.8	4650.4	4745.9	4736.8	4380.7
35°	3236.7	3248.8	3385.2	3686.7	4057.9	4441.3	4756.5	5127.7	5386.8	5380.8	4992.9
37.5°	3080.6	3074.5	3235.1	3554.9	4056.4	4582.2	5061.1	5679.3	6014.2	6005.1	5518.7
40°	2892.7	2894.2	3054.8	3391.2	3985.2	4670.1	5376.2	6202.1	6543.0	6529.4	6021.7
42.5°	2691.1	2697.2	2847.2	3191.2	3886.7	4736.8	5658.1	6730.9	7061.2	7073.4	6424.8
45°	2510.8	2513.9	2662.4	2977.5	3712.5	4744.4	5911.1	7230.9	7552.2	7523.4	6847.6
47.5°	2245.7	2248.7	2468.4	2774.5	3482.1	4682.2	6120.2	7706.7	8000.7	7940.1	7205.2
50°	1759.2	1765.3	2025.9	2563.9	3201.8	4539.8	6285.4	8153.8	8381.0	8355.3	7571.9
52.5°	1624.4	1619.8	1728.9	2312.3	2950.3	4282.2	6390.0	8555.3	8785.6	8782.6	7874.9
55°	1556.2	1551.7	1588.0	1874.4	2703.3	3900.3	6386.9	8867.5	9120.5	9058.4	8152.2
57.5°	1435.0	1425.9	1519.8	1660.8	2427.5	3424.5	6235.4	9147.8	9363.0	9344.8	8402.3
60°	1348.6	1341.0	1404.7	1535.0	2133.5	2941.2	5846.0	9293.3	9606.9	9614.5	8612.9
62.5°	1259.2	1254.7	1309.2	1430.4	1903.2	2588.1	5245.9	9102.3	9758.4	9717.5	8823.5
65°	1157.7	1154.6	1206.2	1304.7	1674.4	2319.9	4658.0	8761.4	9622.1	9669.0	8850.8
67.5°	1036.5	1034.9	1084.9	1153.1	1424.4	2050.2	3757.9	8359.8	9232.6	9181.1	8500.8
70°	888.0	881.9	944.0	1007.7	1192.5	1744.1	2924.5	7646.1	8599.3	8785.6	7803.7
72.5°	747.0	744.0	803.1	850.1	988.0	1424.4	2133.5	6612.7	8125.0	7856.8	7030.9
75°	584.9	569.7	631.9	675.8	778.9	1133.4	1454.7	4417.1	6838.5	6782.4	5906.6
77.5°	236.4	274.3	327.3	366.7	434.9	642.5	760.7	2095.6	4362.5	4555.0	4107.9
80°	90.9	97.0	233.4	263.7	292.5	369.7	292.5	883.4	1721.4	1877.4	2379.0
82.5°	51.5	57.6	115.2	110.6	109.1	93.9	109.1	433.4	898.6	984.9	1148.6
85°	28.8	31.8	47.0	51.5	43.9	37.9	33.3	113.6	224.3	212.1	237.9
87.5°	4.5	6.1	7.6	7.6	4.5	4.5	4.5	6.1	6.1	6.1	7.6
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°	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3	2562.3
2.5°	2548.7	2532.0	2515.4	2495.7	2471.4	2456.3	2450.2	2457.8	2479.0	2453.2	2432.0
5°	2539.6	2516.9	2479.0	2441.1	2410.8	2385.1	2350.2	2347.2	2353.2	2342.6	2315.4
7.5°	2559.3	2526.0	2448.7	2422.9	2359.3	2298.7	2279.0	2271.4	2253.2	2232.0	2206.3
10°	2598.7	2530.5	2451.7	2376.0	2316.9	2251.7	2176.0	2177.5	2169.9	2145.6	2121.4
12.5°	2618.4	2538.1	2422.9	2342.6	2251.7	2171.4	2097.2	2063.8	2077.5	2057.8	2032.0
15°	2654.8	2569.9	2412.3	2294.1	2169.9	2079.0	2022.9	1974.4	1944.1	1948.7	1933.5
17.5°	2723.0	2598.7	2385.1	2241.1	2106.2	1998.7	1891.1	1886.5	1841.1	1815.3	1792.6
20°	2794.2	2650.2	2382.0	2183.5	2003.2	1869.9	1783.5	1735.0	1707.7	1686.5	1669.8
22.5°	2886.6	2721.5	2392.6	2150.2	1910.8	1760.8	1650.1	1585.0	1541.0	1525.9	1513.8
25°	3016.9	2810.9	2421.4	2091.1	1813.8	1641.1	1491.0	1422.9	1372.8	1360.7	1351.6
27.5°	3195.7	2924.5	2450.2	2027.5	1700.2	1472.9	1313.8	1247.1	1191.0	1189.5	1172.8
30°	3477.6	3098.8	2460.8	1971.4	1578.9	1292.5	1133.4	1071.3	1028.9	1012.2	1024.3
32.5°	4003.4	3483.6	2527.5	1885.0	1425.9	1116.8	981.9	931.9	884.9	866.7	878.9
35°	4571.6	3944.3	2639.6	1825.9	1257.7	950.1	857.7	798.6	741.0	731.9	727.3
37.5°	4988.3	4364.0	2851.8	1728.9	1098.6	848.6	727.3	678.8	645.5	627.3	644.0
40°	5461.1	4712.5	3012.4	1625.9	936.4	741.0	606.1	591.0	575.8	563.7	581.9
42.5°	5835.4	5071.7	3203.3	1489.5	806.1	628.8	539.4	551.6	559.1	553.1	554.6
45°	6179.3	5338.4	3215.4	1281.9	687.9	545.5	519.7	544.0	562.2	559.1	557.6
47.5°	6515.7	5656.6	3244.2	1062.2	603.1	524.3	521.3	539.4	563.7	568.2	568.2
50°	6862.7	5899.0	3200.3	854.6	571.3	527.3	525.8	524.3	554.6	556.1	560.7
52.5°	7123.4	6096.0	2992.7	706.1	569.7	536.4	533.4	518.2	531.9	542.5	534.9
55°	7399.1	6341.5	2730.5	650.1	566.7	539.4	551.6	525.8	516.7	507.6	516.7
57.5°	7661.3	6512.7	2386.6	616.7	554.6	534.9	559.1	524.3	504.6	478.8	469.7
60°	7862.8	6552.1	2003.2	581.9	539.4	524.3	525.8	513.7	487.9	456.1	442.5
62.5°	7931.0	6574.8	1685.0	548.5	509.1	507.6	495.5	491.0	480.3	460.6	454.6
65°	7873.4	6317.2	1345.6	507.6	483.4	484.9	466.7	451.6	427.3	395.5	392.5
67.5°	7477.9	5864.2	1031.9	456.1	444.0	459.1	439.4	413.7	386.4	365.2	368.2
70°	6800.6	5327.7	724.3	384.9	398.5	425.8	418.2	384.9	354.6	336.4	339.4
72.5°	6047.5	4514.0	492.5	300.0	324.3	381.9	381.9	359.1	328.8	304.6	298.5
75°	4770.1	3545.8	318.2	198.5	213.7	312.1	337.9	303.1	269.7	254.6	248.5
77.5°	3238.2	2309.3	203.0	113.6	142.4	204.6	266.7	271.2	319.7	321.2	307.6
80°	1903.2	1321.3	124.3	66.7	71.2	118.2	213.7	268.2	339.4	239.4	219.7
82.5°	947.1	563.7	56.1	40.9	42.4	59.1	115.2	307.6	262.1	150.0	144.0
85°	210.6	92.4	22.7	21.2	24.2	30.3	59.1	254.6	160.6	121.2	118.2
87.5°	7.6	6.1	6.1	6.1	4.5	4.5	12.1	83.3	63.6	53.0	50.0
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)