

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: P509079

Luminaire Tested: **VERD-CA2-100-740-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509079
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-CA2-100-740-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13957 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - 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

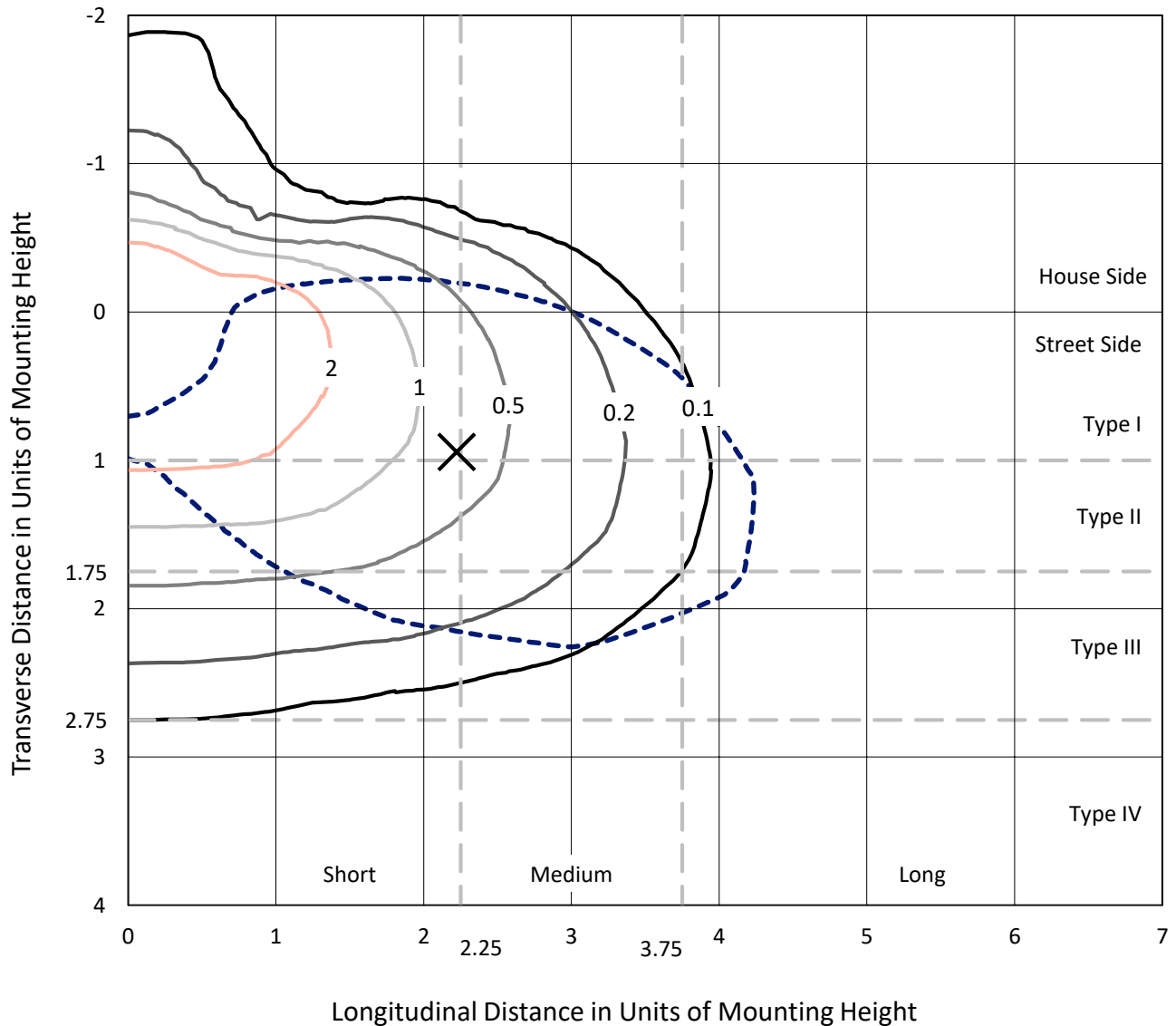


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Iso-Footcandle Lines of Horizontal Illumination

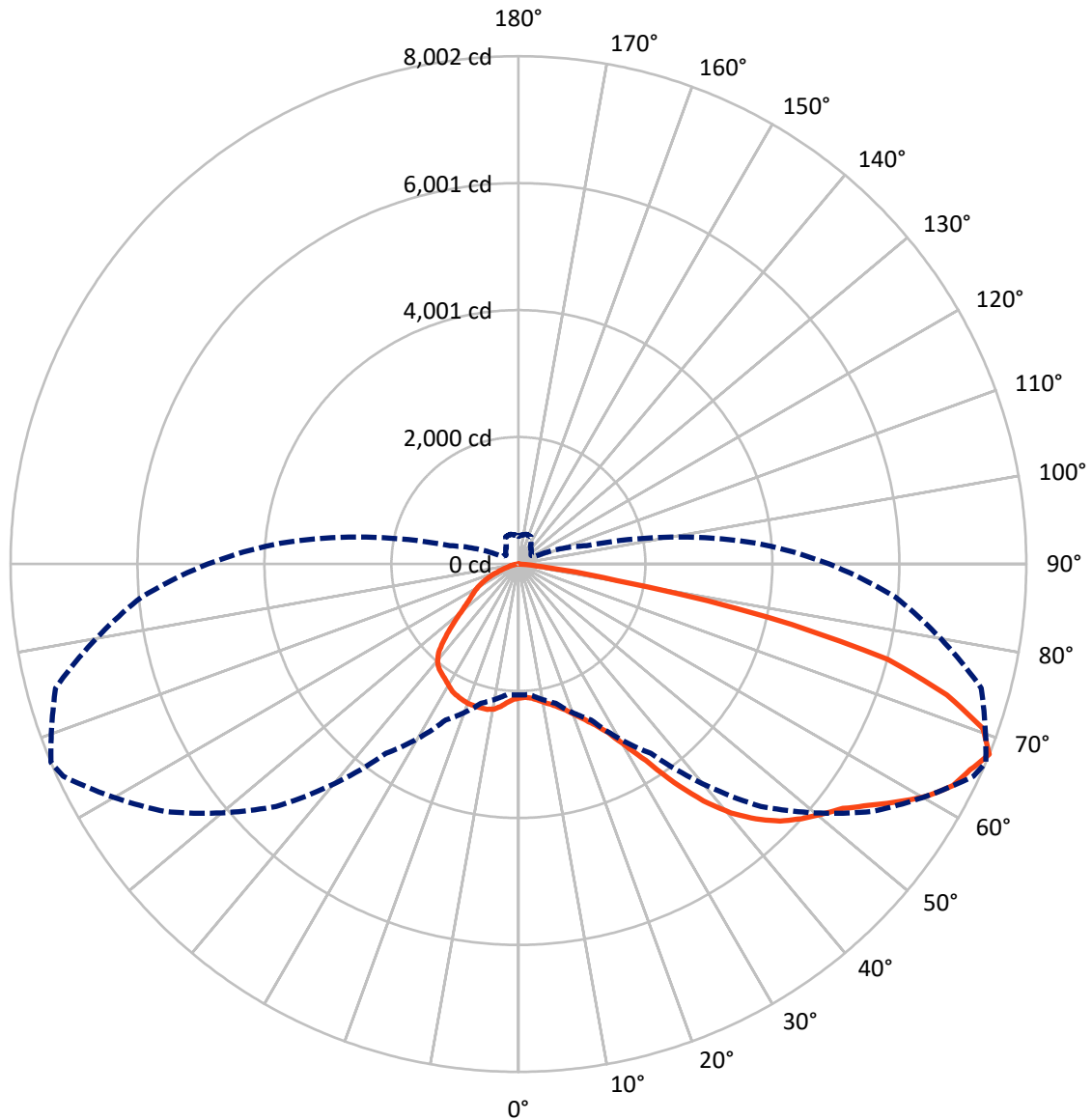
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3191.3	0.0	3191.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10765.6	0.0	10765.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	13957.0	0.0	13957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	1.5
10°-20°	684.4	4.9
20°-30°	1182.5	8.5
30°-40°	1794.9	12.9
40°-50°	2439.0	17.5
50°-60°	2900.7	20.8
60°-70°	2984.4	21.4
70°-80°	1628.0	11.7
80°-90°	129.4	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°	13957.0	100.0
0°-180°	13957.0	100.0

Coefficient of Utilization



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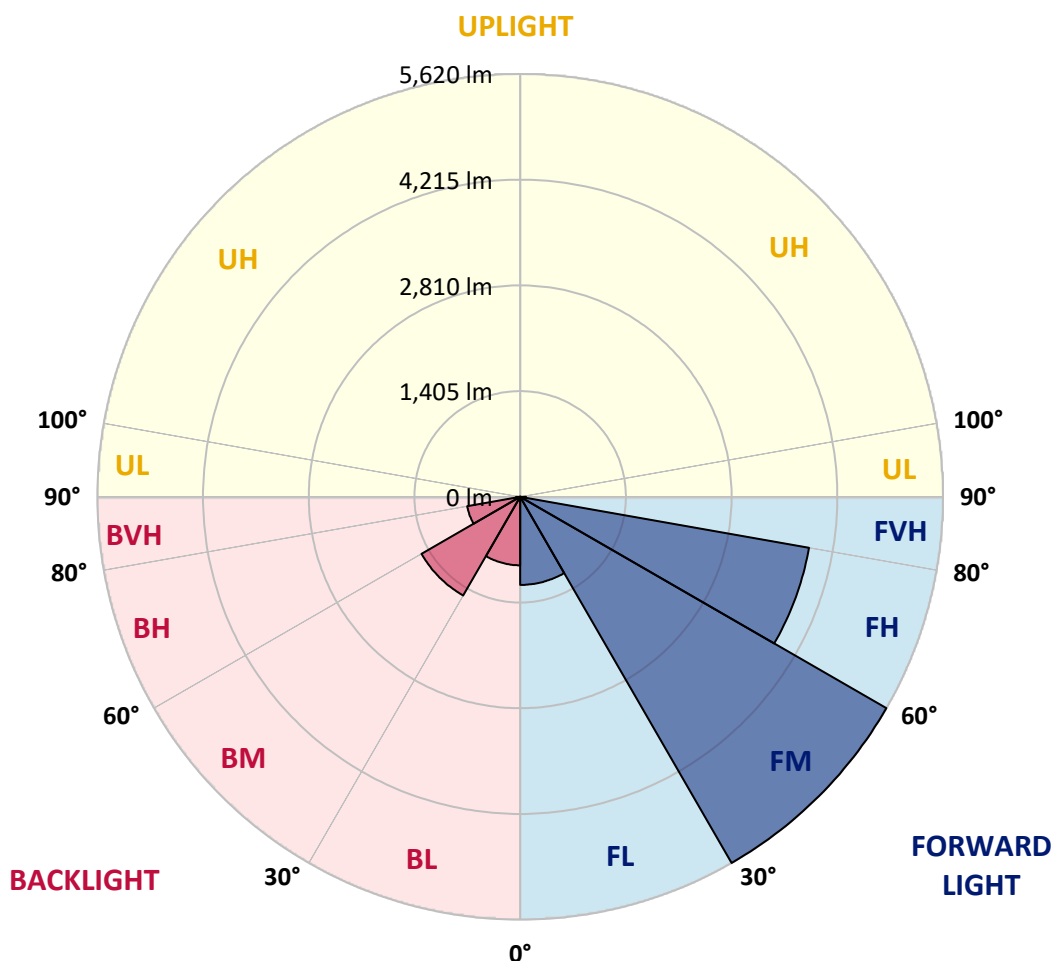
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.7	8.4			
FM (30°-60°)	5619.7	40.3			
FH (60°-80°)	3897.9	27.9			G2/5000
FVH (80°-90°)	77.4	0.6			G1/100
BL (0°-30°)	910.0	6.5	B2/1000		
BM (30°-60°)	1514.9	10.9	B2/2500		
BH (60°-80°)	714.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	51.9	0.4			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5
2.5°	2123.6	2114.5	2102.4	2106.9	2097.9	2113.0	2106.9	2103.9	2103.9	2105.4	2113.0
5°	2171.9	2162.9	2153.8	2152.3	2134.1	2140.2	2131.1	2122.0	2122.0	2120.5	2123.6
7.5°	2256.6	2244.5	2233.9	2232.4	2209.7	2206.7	2179.5	2161.3	2161.3	2159.8	2164.4
10°	2368.4	2363.9	2342.7	2329.1	2301.9	2283.8	2250.5	2221.8	2215.8	2206.7	2218.8
12.5°	2475.7	2474.2	2454.6	2439.4	2401.7	2369.9	2315.5	2276.2	2268.7	2258.1	2267.1
15°	2610.2	2596.6	2575.5	2566.4	2512.0	2463.6	2401.7	2342.7	2335.2	2323.1	2330.6
17.5°	2758.4	2750.8	2717.5	2707.0	2639.0	2583.0	2505.9	2430.4	2418.3	2401.7	2400.1
20°	2936.7	2923.1	2897.4	2867.2	2800.7	2720.6	2631.4	2545.2	2534.7	2521.1	2492.3
22.5°	3128.7	3113.5	3087.8	3056.1	2971.5	2886.8	2775.0	2666.2	2660.1	2651.0	2598.1
25°	3311.5	3285.8	3288.9	3258.6	3183.1	3075.8	2944.3	2814.3	2811.3	2809.7	2725.1
27.5°	3506.5	3479.3	3470.2	3459.7	3388.6	3287.4	3139.2	3015.3	3004.7	3006.2	2877.8
30°	3689.4	3677.3	3669.7	3662.2	3627.4	3536.7	3394.7	3284.3	3317.6	3314.6	3137.7
32.5°	3831.5	3822.4	3854.1	3890.4	3881.3	3805.8	3707.5	3657.7	3690.9	3798.2	3644.1
35°	3956.9	3952.4	4012.8	4089.9	4144.3	4089.9	4079.3	4156.4	4233.5	4411.9	4322.7
37.5°	4092.9	4086.9	4138.3	4269.8	4365.0	4381.6	4461.7	4659.7	4733.8	4912.1	4724.7
40°	4091.4	4099.0	4222.9	4390.7	4564.5	4705.1	4869.8	5061.8	5157.0	5241.6	4951.4
42.5°	4024.9	4029.5	4185.1	4504.1	4756.5	5033.1	5179.7	5426.0	5491.0	5507.6	5219.0
45°	3956.9	3959.9	4129.2	4487.4	4916.7	5339.9	5503.1	5728.3	5778.2	5720.8	5400.3
47.5°	3858.7	3878.3	4061.2	4470.8	5054.2	5622.5	5754.0	5977.7	5997.3	5924.8	5551.5
50°	3742.3	3752.9	3963.0	4416.4	5144.9	5797.8	5953.5	6156.0	6193.8	6112.2	5738.9
52.5°	3600.2	3609.3	3837.5	4343.8	5194.8	5932.4	6106.2	6348.0	6399.4	6363.1	5903.6
55°	3437.0	3441.5	3674.3	4226.0	5181.2	5991.3	6239.2	6620.1	6706.2	6617.0	6041.2
57.5°	3232.9	3249.6	3514.1	4049.1	5078.4	6065.4	6479.5	6955.6	7065.9	6875.5	6144.0
60°	3022.9	3039.5	3279.8	3843.6	4906.1	6098.6	6727.4	7316.8	7413.6	7120.3	6207.4
62.5°	2787.1	2809.7	3009.3	3533.7	4597.8	6054.8	6910.2	7632.7	7687.1	7266.9	6190.8
65°	2444.0	2456.1	2673.7	3160.4	4195.7	5826.6	6902.7	7802.0	7820.1	7428.7	6118.3
67.5°	2063.1	2064.6	2270.2	2710.0	3642.5	5400.3	6796.9	7912.3	8001.5	7548.1	5959.6
70°	1568.9	1590.0	1750.2	2076.7	2977.5	4671.8	6447.8	7803.5	7761.2	7221.6	5504.6
72.5°	1120.0	1107.9	1189.5	1410.2	2084.3	3604.8	5559.0	7050.8	7059.9	6577.7	4789.7
75°	595.5	598.5	668.1	854.0	1064.0	2345.7	4446.6	5956.5	6010.9	5640.6	3748.3
77.5°	133.0	151.1	229.7	326.5	462.5	751.2	2412.2	3907.0	4009.8	3712.1	2054.0
80°	102.8	104.3	151.1	185.9	204.0	359.7	766.3	1417.7	1573.4	1485.7	772.3
82.5°	68.0	69.5	99.8	102.8	98.2	164.7	347.6	424.7	467.0	408.1	287.2
85°	36.3	37.8	45.3	49.9	39.3	48.4	45.3	36.3	37.8	33.3	33.3
87.5°	7.6	4.5	6.0	4.5	4.5	3.0	4.5	4.5	4.5	4.5	4.5
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°	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5	2111.5
2.5°	2113.0	2116.0	2123.6	2135.6	2141.7	2155.3	2164.4	2187.0	2218.8	2208.2	2194.6
5°	2125.1	2134.1	2159.8	2191.6	2215.8	2252.0	2270.2	2314.0	2350.3	2347.2	2323.1
7.5°	2170.4	2190.1	2221.8	2268.7	2309.5	2345.7	2371.4	2418.3	2451.5	2437.9	2415.3
10°	2227.8	2247.5	2282.3	2324.6	2354.8	2394.1	2410.7	2448.5	2469.7	2453.0	2433.4
12.5°	2280.7	2291.3	2315.5	2347.2	2363.9	2389.6	2397.1	2424.3	2444.0	2436.4	2412.2
15°	2332.1	2330.6	2335.2	2344.2	2350.3	2356.3	2357.8	2377.5	2391.1	2376.0	2359.3
17.5°	2389.6	2374.5	2354.8	2339.7	2317.0	2306.4	2286.8	2295.9	2294.3	2282.3	2268.7
20°	2462.1	2434.9	2374.5	2327.6	2268.7	2221.8	2181.0	2173.4	2173.4	2140.2	2138.7
22.5°	2548.3	2502.9	2401.7	2298.9	2203.7	2129.6	2054.0	2010.2	1978.5	1954.3	1943.7
25°	2660.1	2577.0	2425.8	2259.6	2119.0	1984.5	1871.1	1810.7	1750.2	1710.9	1704.9
27.5°	2779.5	2688.8	2441.0	2224.8	2002.6	1818.2	1661.1	1537.1	1481.2	1455.5	1431.3
30°	2974.5	2814.3	2468.2	2150.8	1856.0	1614.2	1405.6	1260.5	1206.1	1188.0	1172.9
32.5°	3447.6	3139.2	2493.9	2075.2	1698.8	1389.0	1113.9	991.5	944.6	962.8	968.8
35°	4040.0	3622.9	2616.3	1987.5	1535.6	1133.6	857.0	775.4	778.4	805.6	814.7
37.5°	4442.1	4049.1	2865.7	1877.2	1301.3	840.4	663.5	637.8	660.5	684.7	689.2
40°	4677.9	4244.1	3041.0	1741.2	1024.7	628.8	498.8	480.6	529.0	583.4	616.7
42.5°	4928.8	4410.3	3131.7	1564.3	719.4	454.9	382.4	396.0	473.1	519.9	541.1
45°	5063.3	4540.3	3090.9	1311.9	489.7	353.7	343.1	380.9	458.0	500.3	506.3
47.5°	5208.4	4670.3	2992.6	1048.9	374.8	335.5	337.0	382.4	461.0	506.3	506.3
50°	5333.8	4777.6	2817.3	822.2	356.7	323.4	338.6	389.9	465.5	504.8	503.3
52.5°	5478.9	4826.0	2567.9	665.0	338.6	312.9	340.1	396.0	458.0	480.6	477.6
55°	5524.3	4791.2	2448.5	556.2	325.0	306.8	346.1	405.1	454.9	459.5	451.9
57.5°	5524.3	4697.5	2312.5	474.6	312.9	306.8	349.1	403.6	471.6	500.3	497.3
60°	5500.1	4599.3	2103.9	424.7	296.2	303.8	350.7	426.2	560.7	592.5	591.0
62.5°	5423.0	4440.6	1847.0	374.8	279.6	305.3	346.1	458.0	640.8	627.2	594.0
65°	5240.1	4141.3	1497.8	329.5	261.5	305.3	340.1	503.3	569.8	544.1	532.0
67.5°	4895.5	3765.0	1113.9	282.6	240.3	285.7	331.0	471.6	483.7	454.9	436.8
70°	4440.6	3189.1	714.9	238.8	217.6	269.0	325.0	442.8	467.0	432.3	409.6
72.5°	3700.0	2533.2	414.1	195.0	184.4	247.9	312.9	429.2	459.5	412.6	380.9
75°	2610.2	1599.1	272.1	143.6	148.1	211.6	290.2	402.0	430.8	373.3	328.0
77.5°	1330.1	600.0	193.5	105.8	99.8	161.7	250.9	370.3	424.7	376.3	321.9
80°	470.1	302.3	127.0	69.5	65.0	99.8	192.0	314.4	399.0	367.3	356.7
82.5°	201.0	151.1	69.5	43.8	39.3	49.9	108.8	247.9	350.7	332.5	402.0
85°	28.7	25.7	19.6	16.6	16.6	22.7	34.8	122.4	237.3	270.5	328.0
87.5°	4.5	4.5	4.5	3.0	3.0	3.0	1.5	18.1	78.6	117.9	163.2
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)