

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: P509071

Luminaire Tested: **VERD-CA2-100-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509071
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-CA2-100-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13705 lumens
Efficiency: N/A
Efficacy: 132.5 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

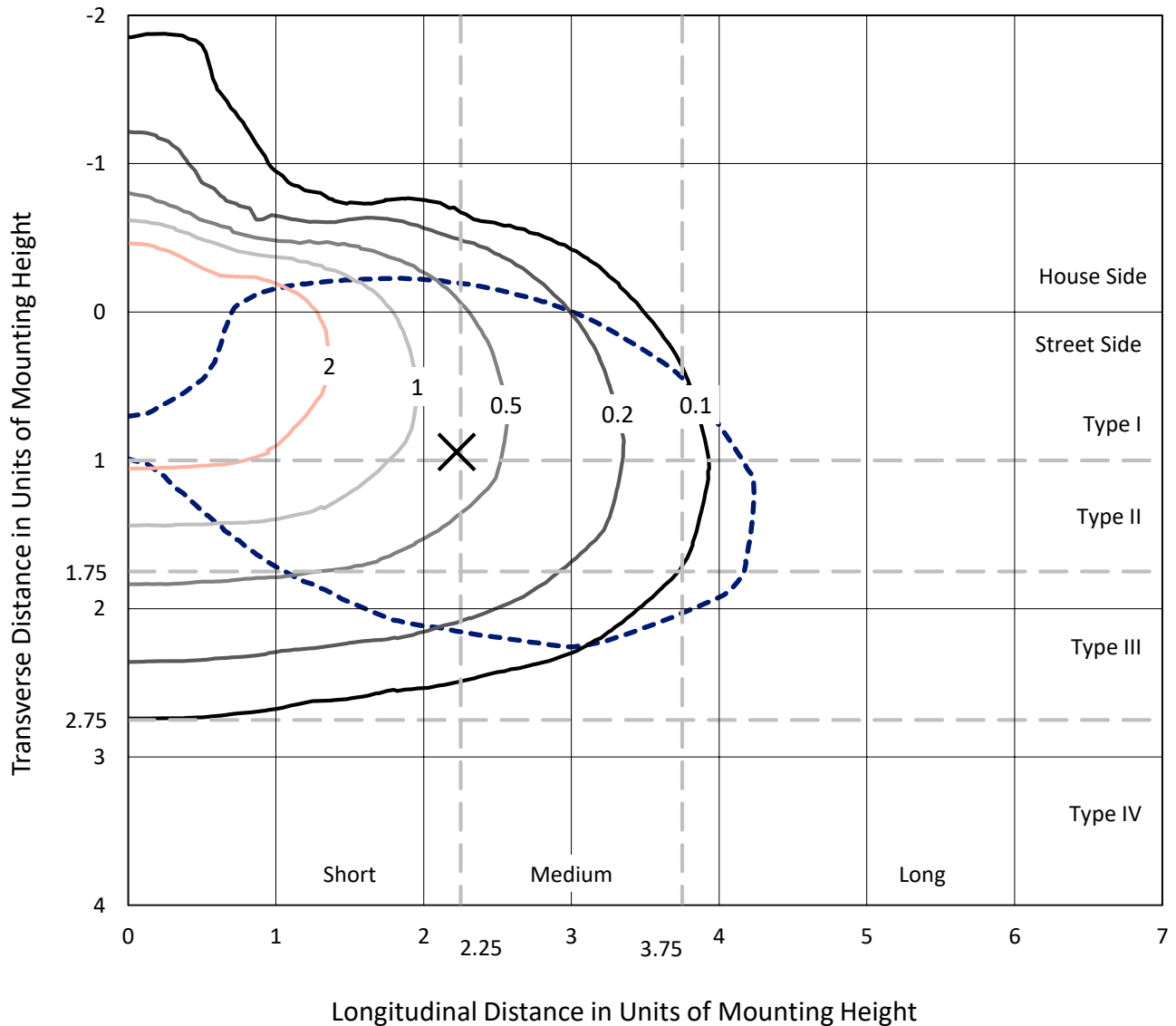
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

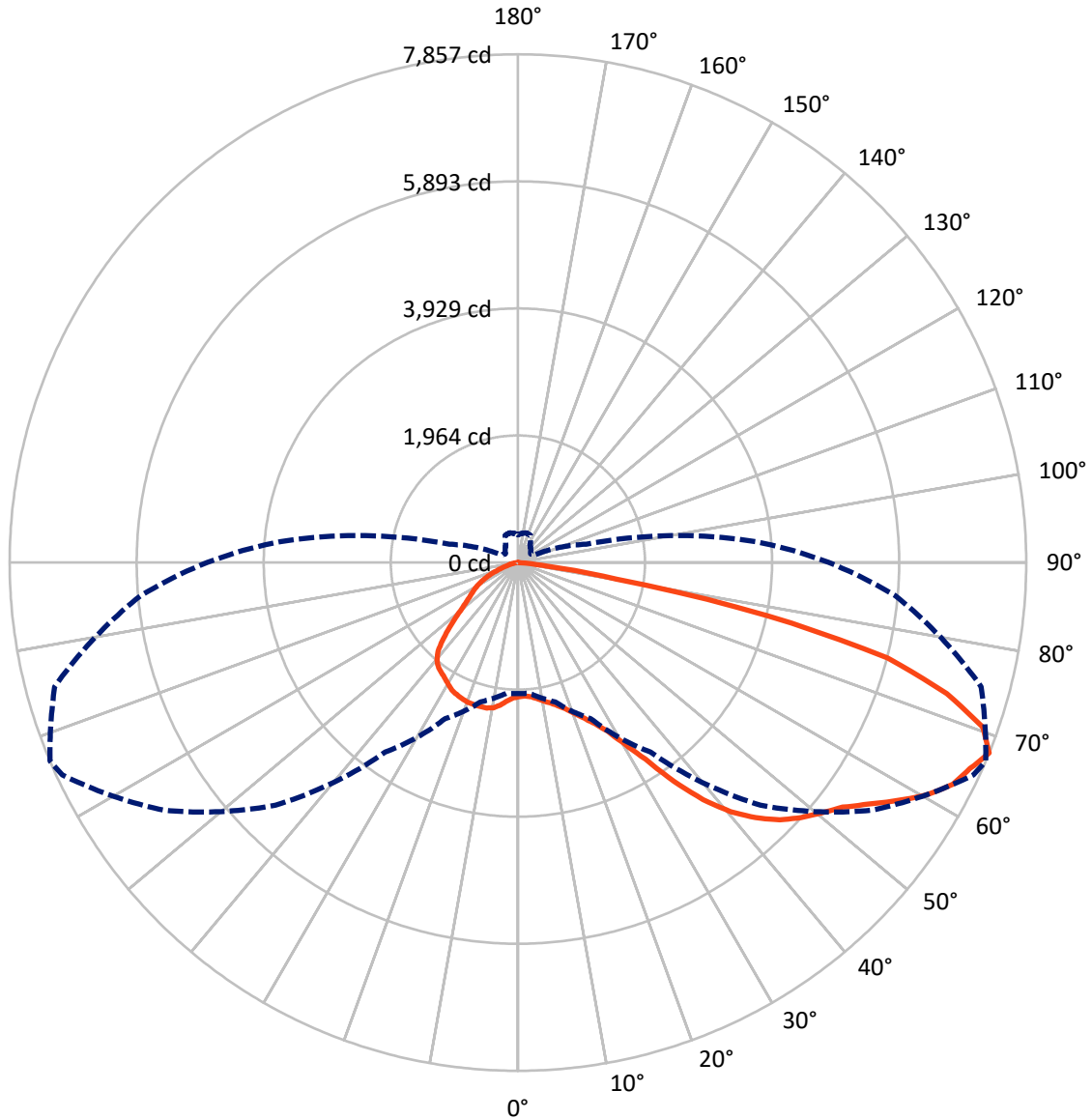
× Max cd
 - - - 1/2 Max cd



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	3133.7	0.0	3133.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10571.3	0.0	10571.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	13705.0	0.0	13705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	1.5
10°-20°	672.0	4.9
20°-30°	1161.1	8.5
30°-40°	1762.5	12.9
40°-50°	2395.0	17.5
50°-60°	2848.3	20.8
60°-70°	2930.5	21.4
70°-80°	1598.6	11.7
80°-90°	127.0	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°	13705.0	100.0
0°-180°	13705.0	100.0

Coefficient of Utilization



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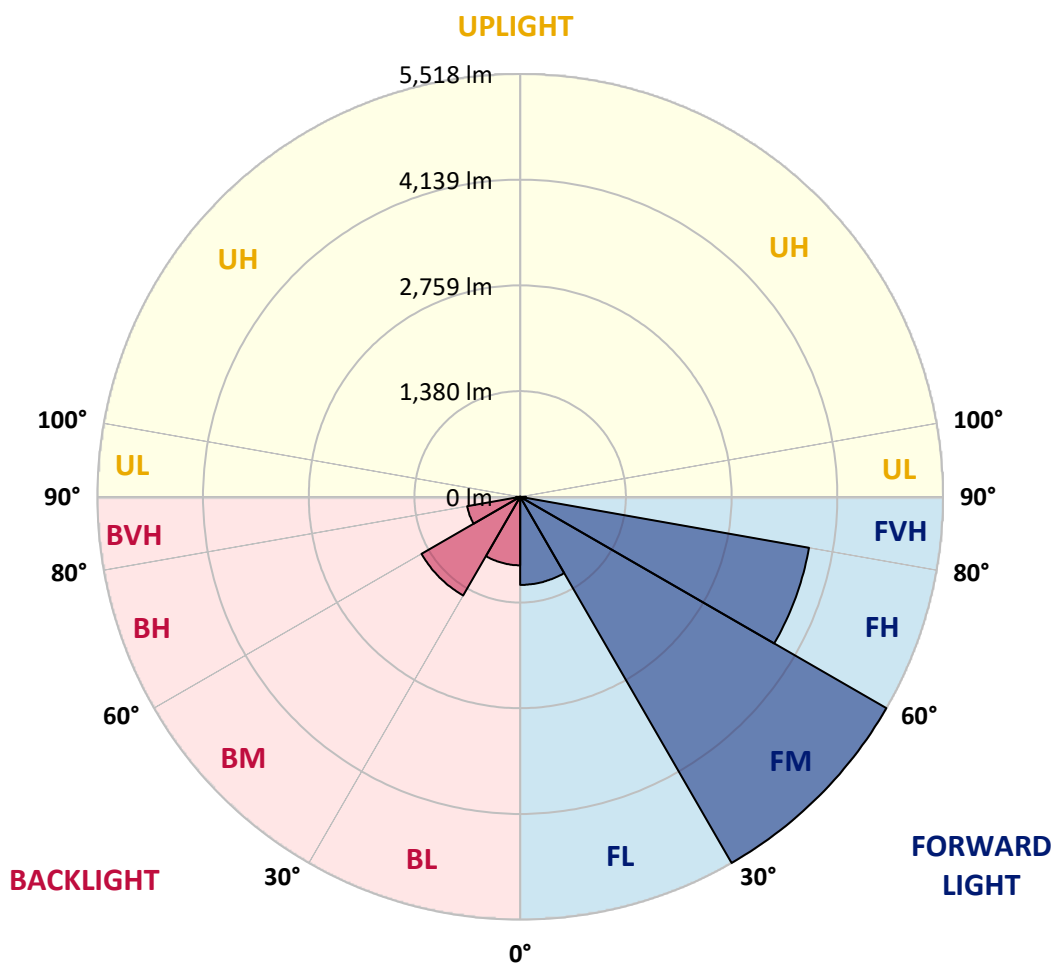
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.5	8.4			
FM (30°-60°)	5518.2	40.3			
FH (60°-80°)	3827.5	27.9			G2/5000
FVH (80°-90°)	76.0	0.6			G1/100
BL (0°-30°)	893.6	6.5	B2/1000		
BM (30°-60°)	1487.5	10.9	B2/2500		
BH (60°-80°)	701.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	51.0	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°	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3
2.5°	2085.2	2076.3	2064.4	2068.9	2060.0	2074.8	2068.9	2065.9	2065.9	2067.4	2074.8
5°	2132.7	2123.8	2114.9	2113.4	2095.6	2101.5	2092.6	2083.7	2083.7	2082.2	2085.2
7.5°	2215.8	2203.9	2193.6	2192.1	2169.8	2166.8	2140.1	2122.3	2122.3	2120.8	2125.3
10°	2325.6	2321.2	2300.4	2287.1	2260.3	2242.5	2209.9	2181.7	2175.7	2166.8	2178.7
12.5°	2431.0	2429.5	2410.2	2395.4	2358.3	2327.1	2273.7	2235.1	2227.7	2217.3	2226.2
15°	2563.1	2549.8	2529.0	2520.1	2466.6	2419.1	2358.3	2300.4	2293.0	2281.1	2288.5
17.5°	2708.6	2701.1	2668.5	2658.1	2591.3	2536.4	2460.7	2386.5	2374.6	2358.3	2356.8
20°	2883.7	2870.3	2845.1	2815.4	2750.1	2671.4	2583.9	2499.3	2488.9	2475.5	2447.3
22.5°	3072.2	3057.3	3032.1	3000.9	2917.8	2834.7	2724.9	2618.0	2612.1	2603.2	2551.2
25°	3251.7	3226.5	3229.5	3199.8	3125.6	3020.2	2891.1	2763.5	2760.5	2759.0	2675.9
27.5°	3443.2	3416.5	3407.6	3397.2	3327.4	3228.0	3082.6	2960.9	2950.5	2952.0	2825.8
30°	3622.8	3610.9	3603.5	3596.1	3561.9	3472.9	3333.4	3225.0	3257.7	3254.7	3081.1
32.5°	3762.3	3753.4	3784.6	3820.2	3811.3	3737.1	3640.6	3591.6	3624.3	3729.6	3578.3
35°	3885.5	3881.0	3940.4	4016.1	4069.5	4016.1	4005.7	4081.4	4157.1	4332.2	4244.6
37.5°	4019.0	4013.1	4063.6	4192.7	4286.2	4302.5	4381.2	4575.6	4648.3	4823.5	4639.4
40°	4017.6	4025.0	4146.7	4311.4	4482.1	4620.1	4781.9	4970.4	5063.9	5147.0	4862.0
42.5°	3952.3	3956.7	4109.6	4422.7	4670.6	4942.2	5086.1	5328.1	5391.9	5408.2	5124.7
45°	3885.5	3888.4	4054.7	4406.4	4827.9	5243.5	5403.7	5624.9	5673.9	5617.5	5302.8
47.5°	3789.0	3808.3	3987.9	4390.1	4963.0	5521.0	5650.1	5869.8	5889.1	5817.8	5451.2
50°	3674.7	3685.1	3891.4	4336.7	5052.0	5693.2	5846.0	6044.9	6082.0	6001.9	5635.3
52.5°	3535.2	3544.1	3768.2	4265.4	5101.0	5825.2	5995.9	6233.4	6283.8	6248.2	5797.0
55°	3374.9	3379.4	3607.9	4149.7	5087.6	5883.1	6126.5	6500.5	6585.1	6497.6	5932.1
57.5°	3174.6	3190.9	3450.6	3976.0	4986.7	5955.8	6362.5	6830.0	6938.3	6751.3	6033.0
60°	2968.3	2984.6	3220.6	3774.2	4817.5	5988.5	6605.9	7184.7	7279.7	6991.8	6095.4
62.5°	2736.8	2759.0	2954.9	3469.9	4514.7	5945.5	6785.5	7494.9	7548.3	7135.7	6079.0
65°	2399.9	2411.7	2625.4	3103.3	4120.0	5721.4	6778.1	7661.1	7678.9	7294.5	6007.8
67.5°	2025.8	2027.3	2229.2	2661.1	3576.8	5302.8	6674.2	7769.5	7857.0	7411.8	5852.0
70°	1540.5	1561.3	1718.6	2039.2	2923.8	4587.5	6331.3	7662.6	7621.1	7091.2	5405.2
72.5°	1099.7	1087.9	1168.0	1384.7	2046.6	3539.7	5458.7	6923.5	6932.4	6459.0	4703.2
75°	584.8	587.7	656.0	838.5	1044.8	2303.4	4366.3	5849.0	5902.4	5538.8	3680.7
77.5°	130.6	148.4	225.6	320.6	454.1	737.6	2368.7	3836.5	3937.4	3645.0	2016.9
80°	100.9	102.4	148.4	182.5	200.4	353.2	752.5	1392.1	1545.0	1458.9	758.4
82.5°	66.8	68.3	98.0	100.9	96.5	161.8	341.4	417.0	458.6	400.7	282.0
85°	35.6	37.1	44.5	49.0	38.6	47.5	44.5	35.6	37.1	32.7	32.7
87.5°	7.4	4.5	5.9	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°	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3	2073.3
2.5°	2074.8	2077.8	2085.2	2097.1	2103.0	2116.4	2125.3	2147.5	2178.7	2168.3	2155.0
5°	2086.7	2095.6	2120.8	2152.0	2175.7	2211.4	2229.2	2272.2	2307.8	2304.9	2281.1
7.5°	2131.2	2150.5	2181.7	2227.7	2267.8	2303.4	2328.6	2374.6	2407.3	2393.9	2371.7
10°	2187.6	2206.9	2241.0	2282.6	2312.3	2350.9	2367.2	2404.3	2425.1	2408.8	2389.5
12.5°	2239.6	2250.0	2273.7	2304.9	2321.2	2346.4	2353.8	2380.6	2399.9	2392.4	2368.7
15°	2290.0	2288.5	2293.0	2301.9	2307.8	2313.8	2315.3	2334.5	2347.9	2333.1	2316.7
17.5°	2346.4	2331.6	2312.3	2297.4	2275.2	2264.8	2245.5	2254.4	2252.9	2241.0	2227.7
20°	2417.7	2390.9	2331.6	2285.6	2227.7	2181.7	2141.6	2134.2	2134.2	2101.5	2100.1
22.5°	2502.3	2457.7	2358.3	2257.4	2163.9	2091.2	2016.9	1973.9	1942.7	1919.0	1908.6
25°	2612.1	2530.5	2382.0	2218.8	2080.8	1948.7	1837.4	1778.0	1718.6	1680.0	1674.1
27.5°	2729.3	2640.3	2396.9	2184.7	1966.5	1785.4	1631.1	1509.4	1454.5	1429.2	1405.5
30°	2920.8	2763.5	2423.6	2111.9	1822.5	1585.1	1380.2	1237.8	1184.3	1166.5	1151.7
32.5°	3385.3	3082.6	2448.8	2037.7	1668.2	1363.9	1093.8	973.6	927.6	945.4	951.3
35°	3967.1	3557.5	2569.0	1951.6	1507.9	1113.1	841.5	761.4	764.3	791.0	800.0
37.5°	4361.9	3976.0	2813.9	1843.3	1277.8	825.2	651.5	626.3	648.6	672.3	676.8
40°	4593.4	4167.5	2986.1	1709.7	1006.2	617.4	489.8	472.0	519.4	572.9	605.5
42.5°	4839.8	4330.7	3075.1	1536.1	706.4	446.7	375.5	388.8	464.5	510.5	531.3
45°	4971.9	4458.4	3035.1	1288.2	480.9	347.3	336.9	374.0	449.7	491.2	497.2
47.5°	5114.3	4586.0	2938.6	1030.0	368.1	329.5	331.0	375.5	452.7	497.2	497.2
50°	5237.5	4691.4	2766.4	807.4	350.3	317.6	332.4	382.9	457.1	495.7	494.2
52.5°	5380.0	4738.9	2521.6	653.0	332.4	307.2	333.9	388.8	449.7	472.0	469.0
55°	5424.5	4704.7	2404.3	546.2	319.1	301.3	339.9	397.7	446.7	451.2	443.8
57.5°	5424.5	4612.7	2270.7	466.0	307.2	301.3	342.8	396.3	463.1	491.2	488.3
60°	5400.8	4516.2	2065.9	417.0	290.9	298.3	344.3	418.5	550.6	581.8	580.3
62.5°	5325.1	4360.4	1813.6	368.1	274.6	299.8	339.9	449.7	629.3	615.9	583.3
65°	5145.5	4066.5	1470.8	323.5	256.8	299.8	333.9	494.2	559.5	534.3	522.4
67.5°	4807.1	3697.0	1093.8	277.5	236.0	280.5	325.0	463.1	474.9	446.7	428.9
70°	4360.4	3131.5	702.0	234.5	213.7	264.2	319.1	434.9	458.6	424.5	402.2
72.5°	3633.2	2487.4	406.7	191.5	181.1	243.4	307.2	421.5	451.2	405.2	374.0
75°	2563.1	1570.2	267.1	141.0	145.4	207.8	285.0	394.8	423.0	366.6	322.1
77.5°	1306.0	589.2	190.0	103.9	98.0	158.8	246.4	363.6	417.0	369.6	316.1
80°	461.6	296.8	124.7	68.3	63.8	98.0	188.5	308.7	391.8	360.6	350.3
82.5°	197.4	148.4	68.3	43.0	38.6	49.0	106.9	243.4	344.3	326.5	394.8
85°	28.2	25.2	19.3	16.3	16.3	22.3	34.1	120.2	233.0	265.7	322.1
87.5°	4.5	4.5	4.5	3.0	3.0	3.0	1.5	17.8	77.2	115.8	160.3
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)