

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: P509445

Luminaire Tested: **VERD-G-CA2-100-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-727-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 930mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12914 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

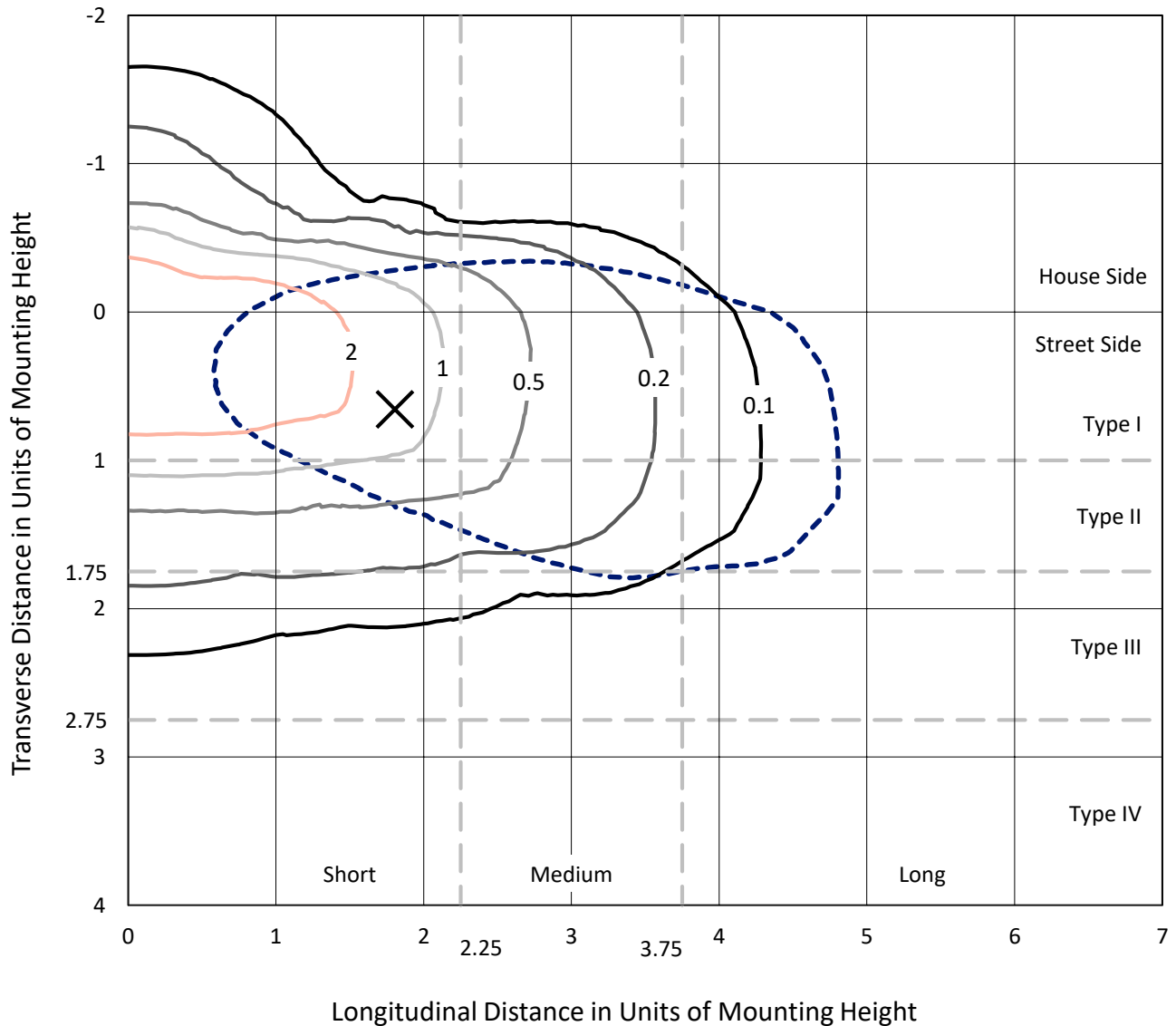
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

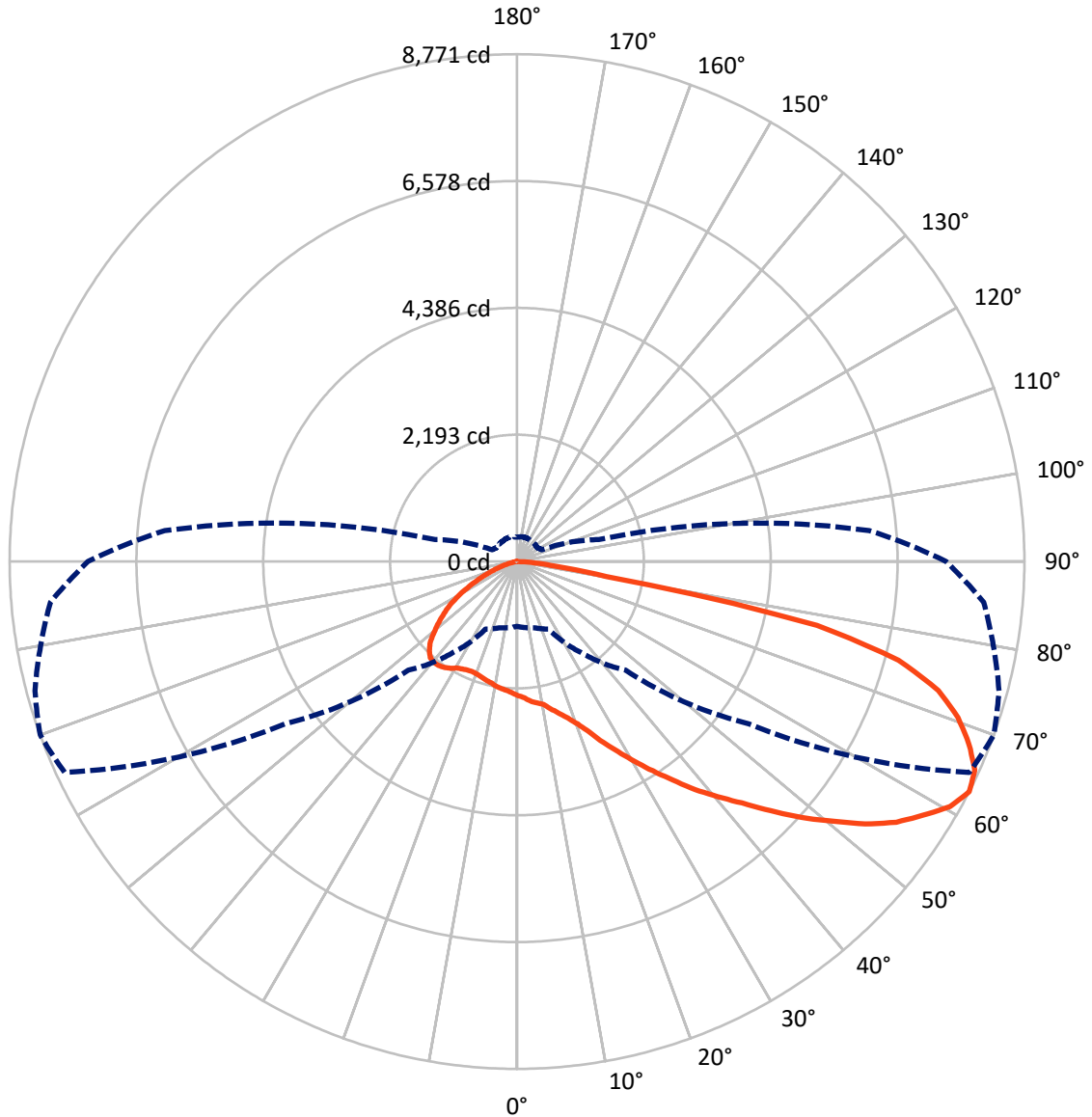
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3300.0	0.0	3300.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	9614.0	0.0	9614.0
	% Fixture	74.4	0.0	74.4
Total	Lumens	12914.0	0.0	12914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.7
10°-20°	680.8	5.3
20°-30°	1157.3	9.0
30°-40°	1665.3	12.9
40°-50°	2161.0	16.7
50°-60°	2533.3	19.6
60°-70°	2597.9	20.1
70°-80°	1704.7	13.2
80°-90°	189.9	1.5
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°	12914.0	100.0
0°-180°	12914.0	100.0

Coefficient of Utilization



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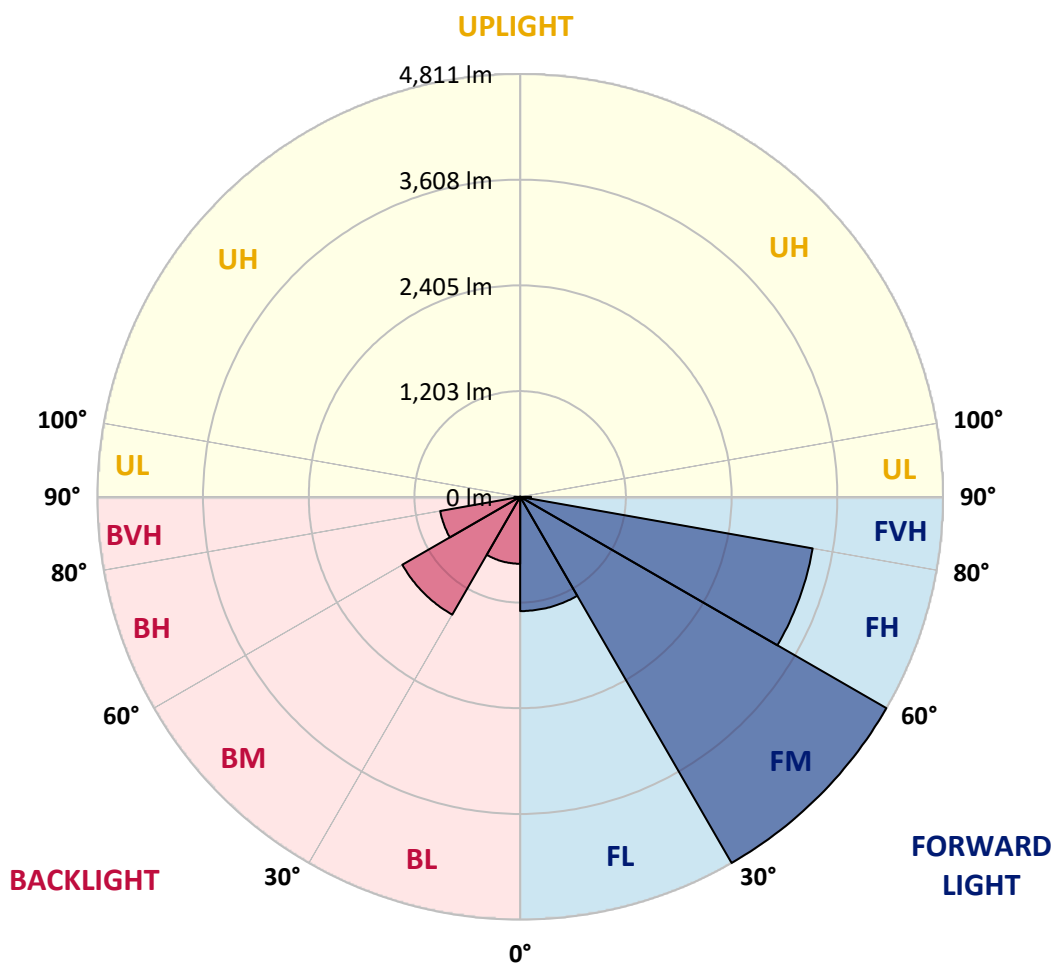
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.9	10.1			
FM (30°-60°)	4810.8	37.3			
FH (60°-80°)	3379.5	26.2			G2/5000
FVH (80°-90°)	123.8	1.0			G2/225
BL (0°-30°)	762.0	5.9	B2/1000		
BM (30°-60°)	1548.8	12.0	B2/2500		
BH (60°-80°)	923.1	7.1	B2/1000		G2/1000
BVH (80°-90°)	66.1	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°	70°	75°	85°
0°	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7
2.5°	2466.8	2476.1	2460.8	2446.4	2432.1	2423.6	2409.2	2368.5	2354.1	2341.4	2316.0
5°	2594.6	2607.3	2585.3	2539.6	2528.6	2493.0	2473.5	2438.8	2424.4	2402.4	2360.1
7.5°	2744.5	2746.2	2714.9	2700.5	2664.1	2615.8	2554.0	2490.5	2469.3	2446.4	2393.1
10°	2831.8	2849.5	2819.0	2774.2	2748.8	2705.6	2640.4	2556.5	2510.0	2469.3	2410.0
12.5°	2954.5	2958.8	2909.7	2884.3	2850.4	2796.2	2732.7	2659.8	2614.1	2538.8	2431.2
15°	3044.3	3046.8	3002.8	2975.7	2943.5	2911.4	2842.8	2766.5	2721.7	2646.3	2482.9
17.5°	3108.7	3119.7	3092.6	3073.1	3039.2	3016.4	2962.2	2902.0	2843.6	2775.9	2590.4
20°	3178.9	3184.9	3134.9	3143.4	3137.5	3127.3	3101.9	3045.1	2997.7	2908.0	2676.8
22.5°	3198.4	3188.3	3201.8	3234.8	3250.9	3262.8	3255.2	3242.5	3199.3	3087.5	2840.2
25°	3169.6	3182.3	3214.5	3286.5	3376.3	3429.6	3467.7	3477.0	3464.3	3357.6	3058.7
27.5°	3162.0	3156.1	3208.6	3331.4	3482.1	3606.6	3682.0	3753.1	3720.9	3654.0	3305.1
30°	3129.8	3127.3	3219.6	3345.8	3539.7	3770.9	3905.5	4025.8	4010.5	3942.8	3593.9
32.5°	3051.1	3068.0	3139.1	3357.6	3627.8	3930.1	4094.4	4291.7	4314.5	4264.6	3886.0
35°	2949.5	2955.4	3068.9	3326.3	3696.3	4069.8	4308.6	4583.0	4636.3	4634.6	4214.6
37.5°	2820.7	2854.6	2975.7	3248.4	3726.0	4197.7	4514.4	4892.9	4999.6	4983.5	4543.2
40°	2692.0	2713.2	2856.3	3149.3	3728.5	4283.2	4688.8	5224.0	5342.6	5345.1	4917.5
42.5°	2499.0	2534.5	2684.4	3018.9	3671.8	4356.0	4862.4	5571.2	5705.8	5725.3	5264.7
45°	2338.1	2349.9	2482.9	2816.5	3549.0	4395.0	5055.5	5926.9	6144.5	6128.4	5566.1
47.5°	2129.7	2176.3	2316.9	2625.1	3356.8	4401.7	5223.2	6340.1	6609.4	6572.1	5976.8
50°	1647.9	1699.6	2082.3	2452.4	3113.7	4324.7	5357.8	6831.3	7050.6	7010.8	6326.6
52.5°	1453.1	1478.5	1633.5	2250.8	2861.4	4140.9	5465.3	7297.0	7536.7	7413.9	6735.6
55°	1370.1	1382.0	1452.3	1841.0	2638.7	3839.5	5527.2	7819.5	7954.1	7772.1	7116.6
57.5°	1280.4	1308.3	1343.9	1551.4	2390.6	3422.0	5489.1	8253.1	8275.1	8093.9	7441.8
60°	1195.7	1207.6	1281.2	1390.5	2105.2	2991.0	5274.0	8523.2	8601.1	8378.4	7833.0
62.5°	1120.3	1141.5	1184.7	1287.2	1914.6	2655.6	4891.2	8627.4	8771.3	8626.5	8097.2
65°	1049.2	1056.0	1105.1	1198.2	1703.8	2490.5	4670.2	8463.1	8696.8	8673.9	8213.3
67.5°	965.4	973.0	1016.2	1080.5	1440.4	2306.7	4094.4	8231.0	8427.5	8505.4	8147.2
70°	856.1	862.1	912.9	951.0	1207.6	2035.7	3438.1	7875.4	8087.9	8016.0	7703.5
72.5°	730.8	740.1	780.8	828.2	1004.3	1716.5	2692.9	7131.0	7617.9	7570.5	7044.7
75°	590.2	604.6	637.7	694.4	816.3	1363.4	1906.2	5770.2	6810.1	6881.2	6079.3
77.5°	279.4	293.8	323.5	370.9	494.5	951.0	1043.3	3252.6	5303.6	5743.9	4894.6
80°	91.5	93.1	219.3	250.7	314.2	586.0	425.9	1061.1	1570.8	2656.5	2632.7
82.5°	49.1	53.3	118.6	145.7	157.5	157.5	124.5	468.3	661.4	808.7	936.6
85°	26.3	27.1	41.5	50.0	54.2	43.2	32.2	193.1	309.9	387.0	383.6
87.5°	11.0	11.9	12.7	11.0	9.3	5.9	4.2	3.4	3.4	3.4	3.4
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°	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7	2317.7
2.5°	2303.3	2291.5	2285.6	2261.0	2233.9	2205.1	2182.2	2183.1	2200.9	2214.4	2213.6
5°	2329.6	2300.0	2263.5	2206.0	2182.2	2161.1	2135.7	2101.8	2112.8	2126.4	2136.5
7.5°	2344.0	2305.9	2256.8	2171.2	2132.3	2086.6	2062.8	2018.8	2000.2	2013.7	2013.7
10°	2338.9	2300.0	2215.3	2152.6	2076.4	2004.4	1957.0	1946.0	1929.9	1927.4	1926.5
12.5°	2372.8	2315.2	2189.9	2097.6	2028.1	1935.8	1885.0	1874.8	1878.2	1857.1	1860.5
15°	2405.8	2340.6	2167.8	2072.2	1964.6	1856.2	1815.6	1778.3	1795.2	1777.5	1781.7
17.5°	2465.1	2386.3	2156.0	2021.3	1883.3	1789.3	1716.5	1674.2	1672.5	1669.9	1663.1
20°	2532.8	2423.6	2154.3	1977.3	1817.3	1705.5	1601.3	1554.8	1520.9	1532.7	1533.6
22.5°	2655.6	2493.9	2172.1	1936.7	1725.0	1599.6	1492.9	1421.8	1381.2	1387.9	1388.8
25°	2830.1	2641.2	2218.7	1901.9	1647.9	1476.8	1371.8	1282.1	1233.0	1233.8	1247.4
27.5°	3083.3	2817.4	2293.2	1872.3	1565.8	1360.8	1218.6	1130.5	1077.1	1076.3	1085.6
30°	3333.9	3037.5	2399.9	1830.0	1461.6	1205.0	1044.1	973.8	940.8	918.8	923.9
32.5°	3582.0	3273.8	2538.8	1808.0	1339.7	1021.3	886.6	838.3	796.9	756.2	760.4
35°	3863.2	3495.7	2678.5	1763.9	1193.2	868.8	774.8	708.8	655.4	634.3	630.0
37.5°	4193.4	3753.9	2775.0	1726.7	1019.6	766.4	652.0	602.9	568.2	545.3	542.0
40°	4484.7	3970.7	2881.7	1639.4	852.7	674.1	544.5	518.3	514.0	496.2	493.7
42.5°	4779.4	4236.6	2954.5	1525.1	738.4	556.4	465.7	481.0	504.7	493.7	493.7
45°	5080.0	4514.4	2968.9	1354.1	629.2	470.8	446.3	475.1	508.1	510.6	509.8
47.5°	5409.5	4760.8	2996.9	1109.3	551.3	448.8	442.9	466.6	508.9	524.2	520.8
50°	5782.9	5027.5	2919.0	846.0	504.7	451.4	446.3	457.3	503.0	519.9	514.0
52.5°	6146.2	5284.1	2790.3	645.3	475.1	453.9	464.1	455.6	488.6	505.5	512.3
55°	6483.2	5567.0	2517.6	574.1	454.7	450.5	478.5	463.2	475.1	480.1	489.5
57.5°	6824.5	5775.3	2228.0	538.6	443.7	446.3	470.0	463.2	470.8	464.9	457.3
60°	7144.6	5994.6	1854.5	505.5	431.9	443.7	453.0	451.4	456.4	445.4	440.3
62.5°	7416.4	6113.2	1464.1	476.8	421.7	431.9	430.2	438.7	439.5	426.8	423.4
65°	7540.9	6164.0	1117.8	450.5	406.5	416.6	408.2	409.9	410.7	393.8	392.9
67.5°	7414.7	5884.5	766.4	411.6	390.4	403.1	387.0	384.5	378.5	361.6	362.4
70°	7046.3	5417.9	511.5	355.7	355.7	377.7	368.4	362.4	348.0	332.0	337.0
72.5°	6223.2	4625.3	332.0	287.1	312.5	348.0	343.8	335.3	301.5	255.7	257.4
75°	5323.1	3670.9	221.0	209.2	238.8	301.5	286.2	265.9	252.4	266.7	284.5
77.5°	4145.2	2340.6	123.6	120.2	141.4	211.7	238.8	243.0	343.8	408.2	403.9
80°	2151.8	1188.9	72.0	59.3	83.8	142.3	188.0	255.7	426.8	321.8	311.6
82.5°	846.0	445.4	44.0	31.3	37.3	58.4	124.5	367.5	323.5	162.6	155.8
85°	289.6	100.8	17.8	16.1	17.8	24.6	49.1	329.4	167.7	103.3	98.2
87.5°	3.4	3.4	4.2	5.1	5.9	5.9	13.5	156.7	77.9	48.3	46.6
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)