

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: P509103

Luminaire Tested: **VERD-CA2-110-722-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509103
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-CA2-110-722-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13116 lumens
Efficiency: N/A
Efficacy: 115.5 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

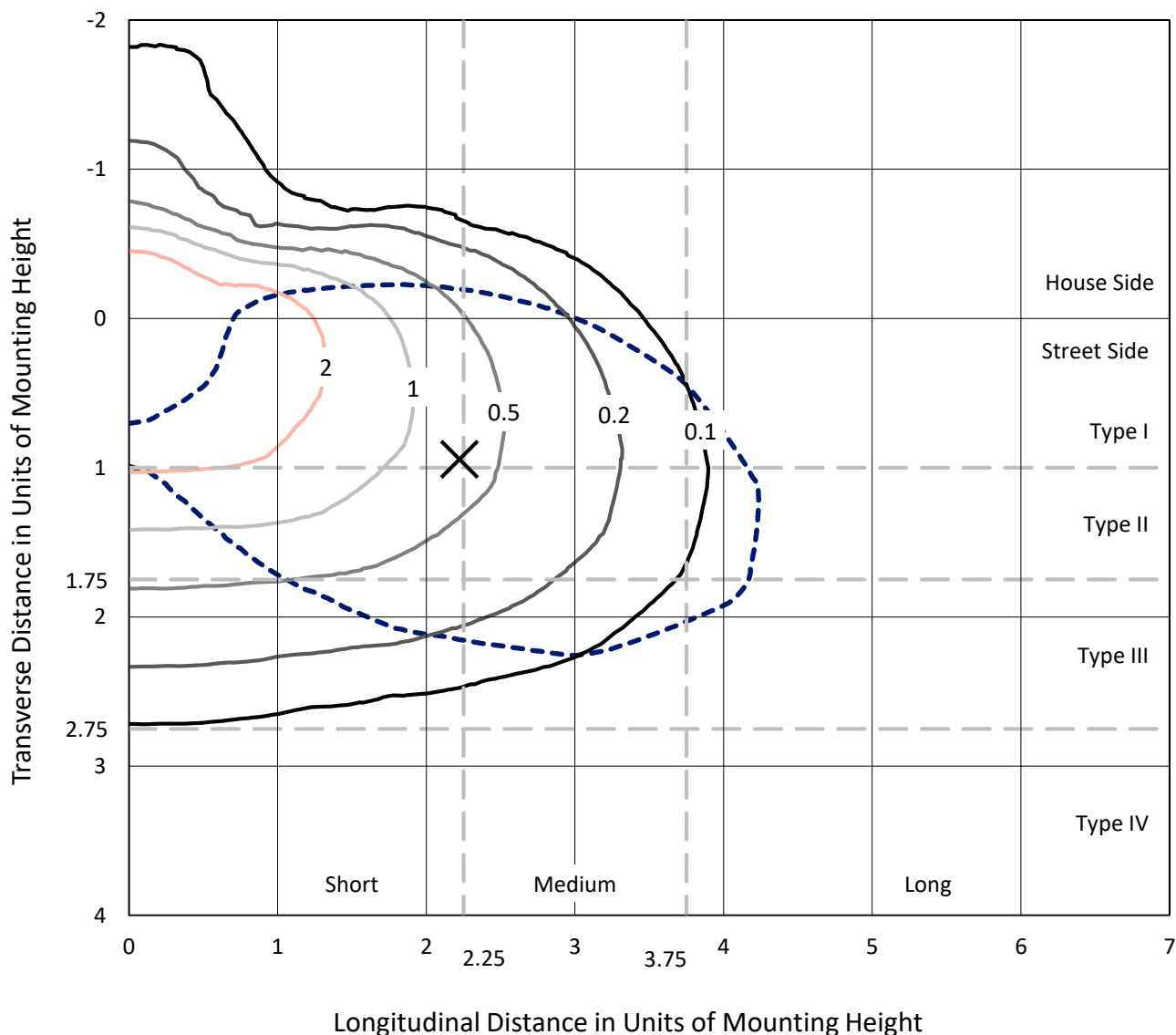
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

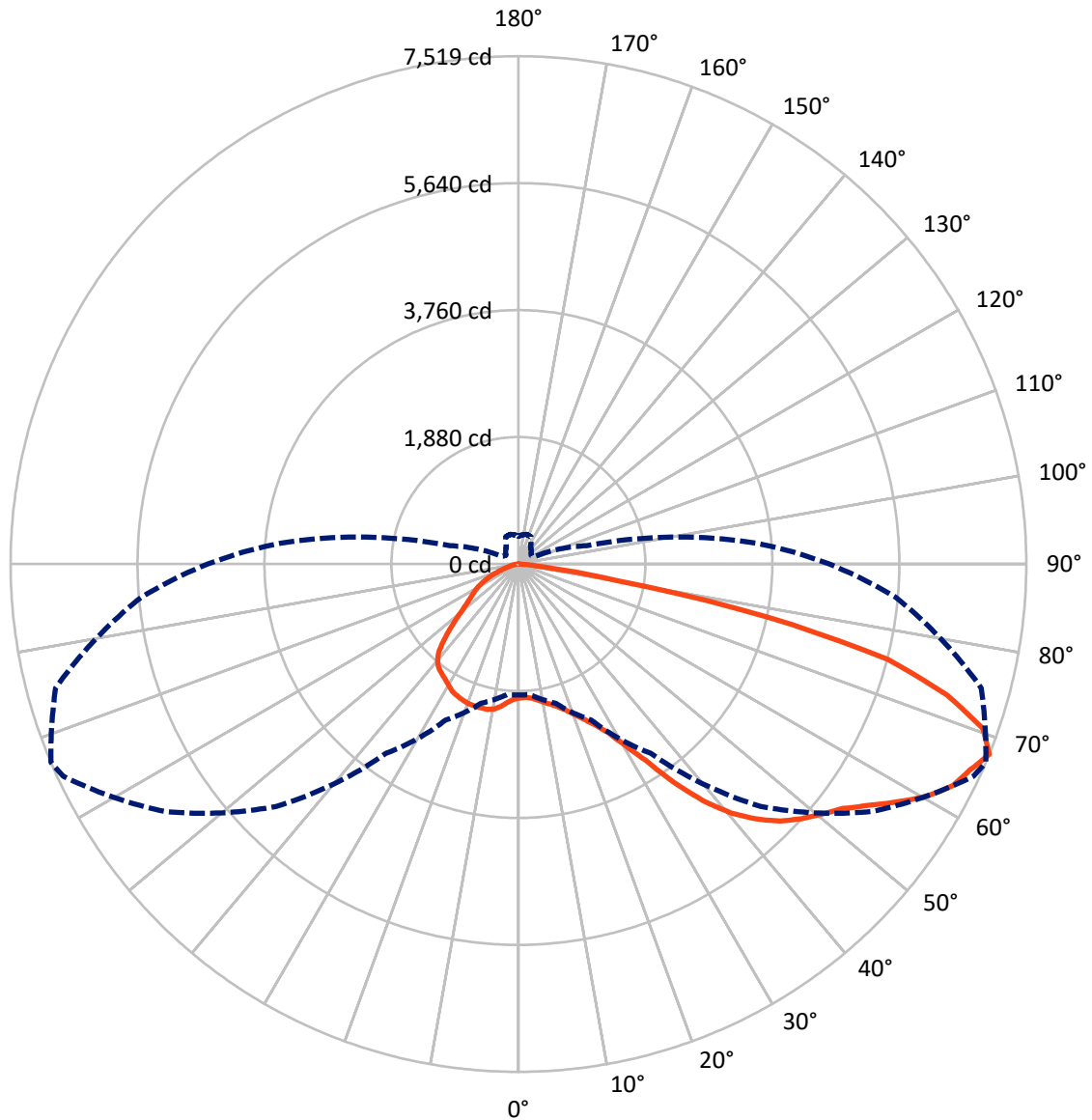
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	2999.0	0.0	2999.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10117.0	0.0	10117.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	13116.0	0.0	13116.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.5
10°-20°	643.1	4.9
20°-30°	1111.2	8.5
30°-40°	1686.7	12.9
40°-50°	2292.0	17.5
50°-60°	2725.9	20.8
60°-70°	2804.6	21.4
70°-80°	1529.9	11.7
80°-90°	121.6	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°	13116.0	100.0
0°-180°	13116.0	100.0



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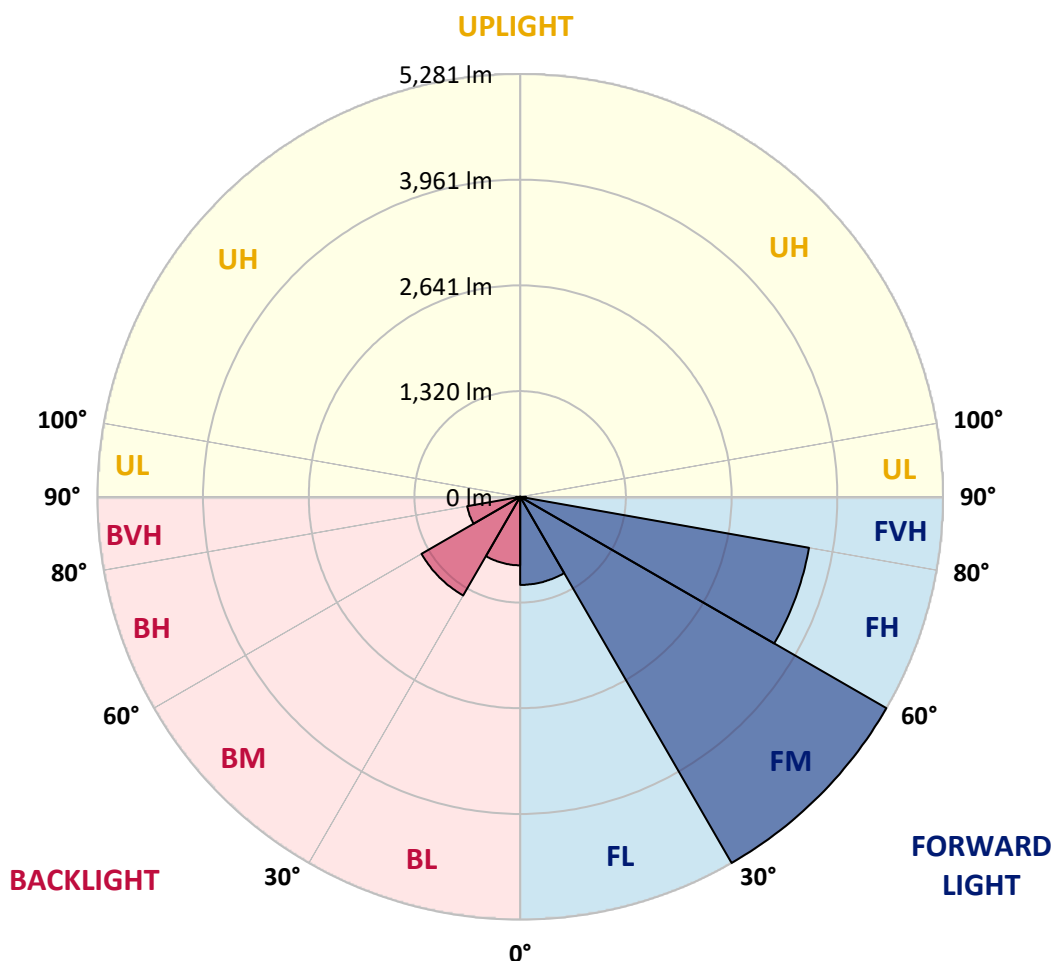
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.1	8.4			
FM (30°-60°)	5281.0	40.3			
FH (60°-80°)	3663.0	27.9			G2/5000
FVH (80°-90°)	72.8	0.6			G1/100
BL (0°-30°)	855.2	6.5	B2/1000		
BM (30°-60°)	1423.6	10.9	B2/2500		
BH (60°-80°)	671.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	48.8	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°	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2
2.5°	1995.6	1987.1	1975.7	1980.0	1971.5	1985.7	1980.0	1977.1	1977.1	1978.6	1985.7
5°	2041.0	2032.5	2024.0	2022.6	2005.5	2011.2	2002.7	1994.2	1994.2	1992.8	1995.6
7.5°	2120.6	2109.2	2099.3	2097.9	2076.6	2073.7	2048.2	2031.1	2031.1	2029.7	2033.9
10°	2225.7	2221.4	2201.5	2188.8	2163.2	2146.2	2114.9	2087.9	2082.2	2073.7	2085.1
12.5°	2326.5	2325.1	2306.7	2292.5	2256.9	2227.1	2176.0	2139.1	2132.0	2122.0	2130.5
15°	2453.0	2440.2	2420.3	2411.8	2360.6	2315.2	2256.9	2201.5	2194.4	2183.1	2190.2
17.5°	2592.1	2585.0	2553.8	2543.9	2479.9	2427.4	2354.9	2283.9	2272.6	2256.9	2255.5
20°	2759.7	2747.0	2722.8	2694.4	2631.9	2556.6	2472.8	2391.9	2381.9	2369.2	2342.2
22.5°	2940.1	2925.9	2901.8	2872.0	2792.4	2712.9	2607.8	2505.5	2499.8	2491.3	2441.6
25°	3112.0	3087.9	3090.7	3062.3	2991.3	2890.4	2766.9	2644.7	2641.9	2640.4	2560.9
27.5°	3295.2	3269.7	3261.1	3251.2	3184.4	3089.3	2950.1	2833.6	2823.7	2825.1	2704.4
30°	3467.1	3455.7	3448.6	3441.5	3408.9	3323.6	3190.1	3086.4	3117.7	3114.8	2948.7
32.5°	3600.6	3592.1	3621.9	3656.0	3647.5	3576.5	3484.1	3437.3	3468.5	3569.4	3424.5
35°	3718.5	3714.2	3771.0	3843.5	3894.6	3843.5	3833.5	3906.0	3978.4	4146.0	4062.2
37.5°	3846.3	3840.6	3888.9	4012.5	4102.0	4117.6	4192.9	4379.0	4448.6	4616.2	4440.0
40°	3844.9	3852.0	3968.5	4126.1	4289.5	4421.6	4576.4	4756.8	4846.3	4925.8	4653.1
42.5°	3782.4	3786.7	3933.0	4232.7	4469.9	4729.8	4867.6	5099.1	5160.1	5175.8	4904.5
45°	3718.5	3721.3	3880.4	4217.0	4620.4	5018.1	5171.5	5383.1	5430.0	5376.0	5074.9
47.5°	3626.2	3644.6	3816.5	4201.4	4749.7	5283.7	5407.3	5617.5	5636.0	5567.8	5217.0
50°	3516.8	3526.7	3724.2	4150.3	4834.9	5448.5	5594.8	5785.1	5820.6	5743.9	5393.1
52.5°	3383.3	3391.8	3606.3	4082.1	4881.8	5574.9	5738.2	5965.5	6013.8	5979.7	5547.9
55°	3229.9	3234.1	3452.9	3971.3	4869.0	5630.3	5863.2	6221.2	6302.1	6218.3	5677.2
57.5°	3038.1	3053.8	3302.3	3805.1	4772.4	5699.9	6089.1	6536.5	6640.2	6461.2	5773.7
60°	2840.7	2856.3	3082.2	3612.0	4610.5	5731.1	6322.0	6875.9	6966.8	6691.3	5833.4
62.5°	2619.1	2640.4	2827.9	3320.8	4320.7	5689.9	6493.9	7172.8	7223.9	6829.1	5817.8
65°	2296.7	2308.1	2512.6	2970.0	3942.9	5475.5	6486.8	7331.9	7348.9	6981.0	5749.6
67.5°	1938.8	1940.2	2133.4	2546.7	3423.1	5074.9	6387.3	7435.6	7519.4	7093.3	5600.5
70°	1474.3	1494.2	1644.8	1951.6	2798.1	4390.3	6059.2	7333.3	7293.5	6786.5	5172.9
72.5°	1052.5	1041.1	1117.8	1325.2	1958.7	3387.5	5224.1	6626.0	6634.5	6181.4	4501.1
75°	559.6	562.5	627.8	802.5	999.9	2204.4	4178.7	5597.6	5648.8	5300.8	3522.5
77.5°	125.0	142.0	215.9	306.8	434.6	705.9	2266.9	3671.6	3768.2	3488.4	1930.3
80°	96.6	98.0	142.0	174.7	191.7	338.0	720.1	1332.3	1478.6	1396.2	725.8
82.5°	63.9	65.3	93.7	96.6	92.3	154.8	326.7	399.1	438.9	383.5	269.9
85°	34.1	35.5	42.6	46.9	36.9	45.5	42.6	34.1	35.5	31.2	31.2
87.5°	7.1	4.3	5.7	4.3	4.3	2.8	4.3	4.3	4.3	4.3	4.3
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°	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2	1984.2
2.5°	1985.7	1988.5	1995.6	2007.0	2012.6	2025.4	2033.9	2055.3	2085.1	2075.1	2062.4
5°	1997.0	2005.5	2029.7	2059.5	2082.2	2116.3	2133.4	2174.6	2208.7	2205.8	2183.1
7.5°	2039.6	2058.1	2087.9	2132.0	2170.3	2204.4	2228.5	2272.6	2303.8	2291.0	2269.7
10°	2093.6	2112.1	2144.7	2184.5	2212.9	2249.8	2265.5	2301.0	2320.9	2305.2	2286.8
12.5°	2143.3	2153.3	2176.0	2205.8	2221.4	2245.6	2252.7	2278.2	2296.7	2289.6	2266.9
15°	2191.6	2190.2	2194.4	2203.0	2208.7	2214.3	2215.8	2234.2	2247.0	2232.8	2217.2
17.5°	2245.6	2231.4	2212.9	2198.7	2177.4	2167.5	2149.0	2157.5	2156.1	2144.7	2132.0
20°	2313.8	2288.2	2231.4	2187.3	2132.0	2087.9	2049.6	2042.5	2042.5	2011.2	2009.8
22.5°	2394.7	2352.1	2256.9	2160.4	2070.9	2001.3	1930.3	1889.1	1859.2	1836.5	1826.6
25°	2499.8	2421.7	2279.7	2123.4	1991.3	1864.9	1758.4	1701.6	1644.8	1607.8	1602.2
27.5°	2612.0	2526.8	2293.9	2090.8	1882.0	1708.7	1561.0	1444.5	1391.9	1367.8	1345.1
30°	2795.3	2644.7	2319.4	2021.2	1744.2	1516.9	1320.9	1184.6	1133.4	1116.4	1102.2
32.5°	3239.8	2950.1	2343.6	1950.1	1596.5	1305.3	1046.8	931.8	887.7	904.8	910.4
35°	3796.6	3404.6	2458.6	1867.8	1443.1	1065.3	805.3	728.6	731.5	757.0	765.6
37.5°	4174.4	3805.1	2693.0	1764.1	1222.9	789.7	623.5	599.4	620.7	643.4	647.7
40°	4396.0	3988.4	2857.8	1636.2	963.0	590.9	468.7	451.7	497.1	548.3	579.5
42.5°	4631.8	4144.6	2943.0	1470.1	676.1	427.5	359.3	372.1	444.6	488.6	508.5
45°	4758.2	4266.7	2904.6	1232.9	460.2	332.4	322.4	357.9	430.4	470.1	475.8
47.5°	4894.5	4388.9	2812.3	985.7	352.2	315.3	316.7	359.3	433.2	475.8	475.8
50°	5012.4	4489.7	2647.5	772.7	335.2	304.0	318.2	366.5	437.5	474.4	473.0
52.5°	5148.8	4535.2	2413.2	625.0	318.2	294.0	319.6	372.1	430.4	451.7	448.8
55°	5191.4	4502.5	2301.0	522.7	305.4	288.3	325.3	380.7	427.5	431.8	424.7
57.5°	5191.4	4414.5	2173.1	446.0	294.0	288.3	328.1	379.2	443.2	470.1	467.3
60°	5168.7	4322.1	1977.1	399.1	278.4	285.5	329.5	400.5	527.0	556.8	555.4
62.5°	5096.2	4173.0	1735.7	352.2	262.8	286.9	325.3	430.4	602.2	589.4	558.2
65°	4924.4	3891.8	1407.6	309.6	245.7	286.9	319.6	473.0	535.5	511.3	500.0
67.5°	4600.5	3538.1	1046.8	265.6	225.8	268.4	311.1	443.2	454.5	427.5	410.5
70°	4173.0	2996.9	671.8	224.4	204.5	252.8	305.4	416.2	438.9	406.2	384.9
72.5°	3477.0	2380.5	389.2	183.2	173.3	232.9	294.0	403.4	431.8	387.8	357.9
75°	2453.0	1502.7	255.7	134.9	139.2	198.8	272.7	377.8	404.8	350.8	308.2
77.5°	1249.9	563.9	181.8	99.4	93.7	152.0	235.8	348.0	399.1	353.7	302.5
80°	441.7	284.1	119.3	65.3	61.1	93.7	180.4	295.4	375.0	345.1	335.2
82.5°	188.9	142.0	65.3	41.2	36.9	46.9	102.3	232.9	329.5	312.5	377.8
85°	27.0	24.1	18.5	15.6	15.6	21.3	32.7	115.0	223.0	254.2	308.2
87.5°	4.3	4.3	4.3	2.8	2.8	2.8	1.4	17.0	73.9	110.8	153.4
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)