

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: P509111

Luminaire Tested: **VERD-CA2-110-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509111
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-CA2-110-727-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13627 lumens
Efficiency: N/A
Efficacy: 120.0 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

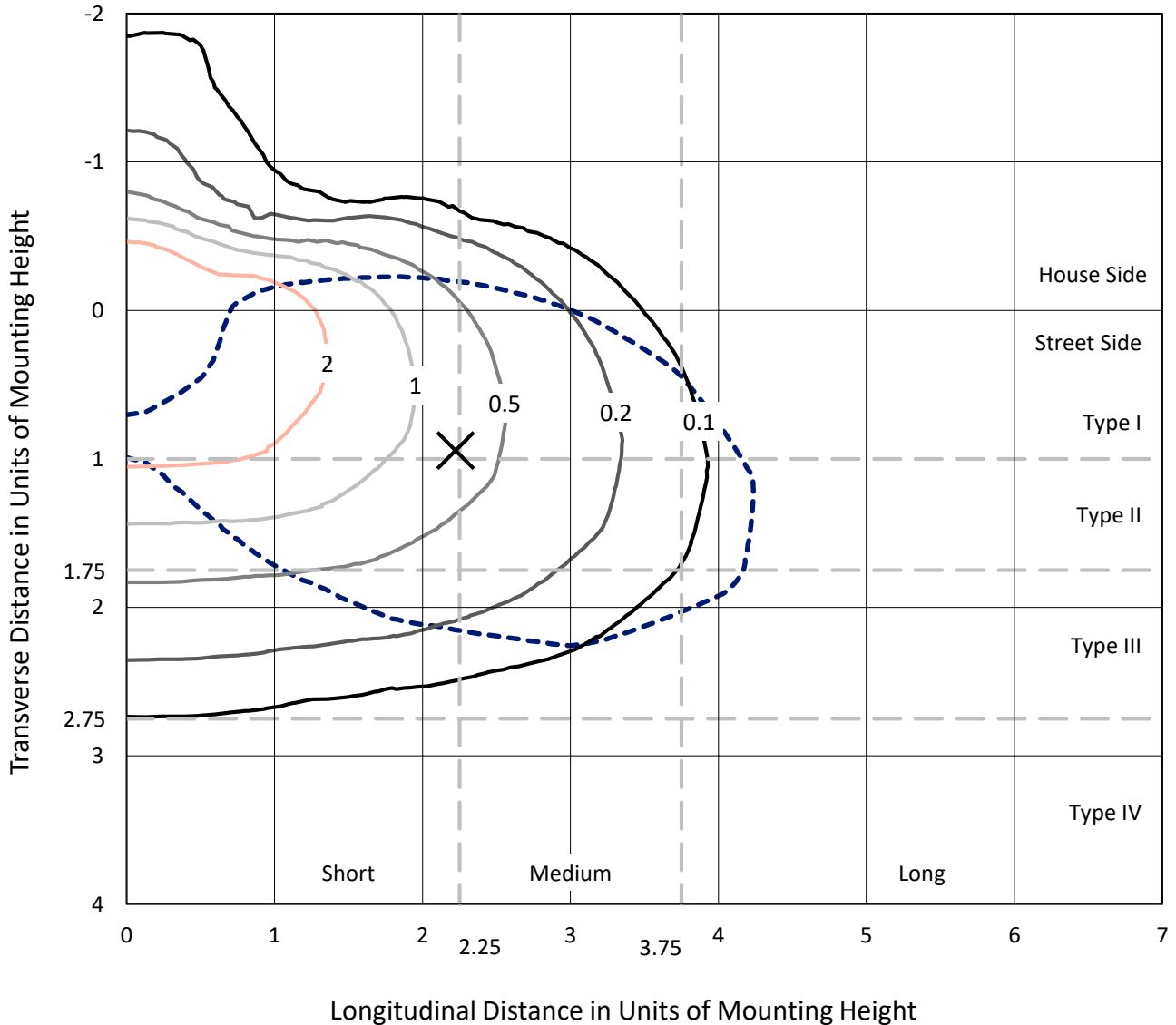
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

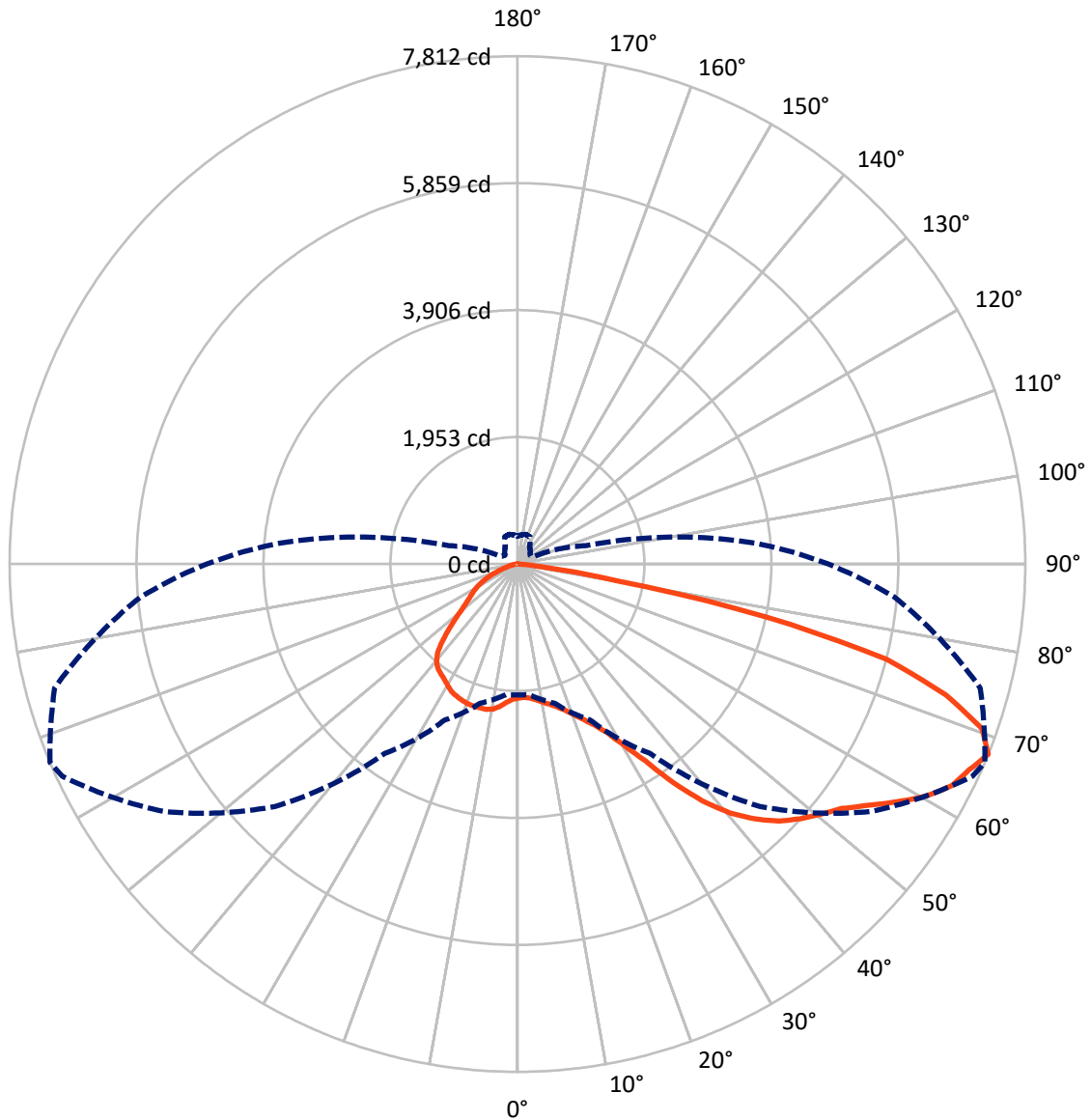
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3115.9	0.0	3115.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10511.1	0.0	10511.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	13627.0	0.0	13627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.5
10°-20°	668.2	4.9
20°-30°	1154.5	8.5
30°-40°	1752.5	12.9
40°-50°	2381.3	17.5
50°-60°	2832.1	20.8
60°-70°	2913.8	21.4
70°-80°	1589.5	11.7
80°-90°	126.3	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°	13627.0	100.0
0°-180°	13627.0	100.0

Coefficient of Utilization



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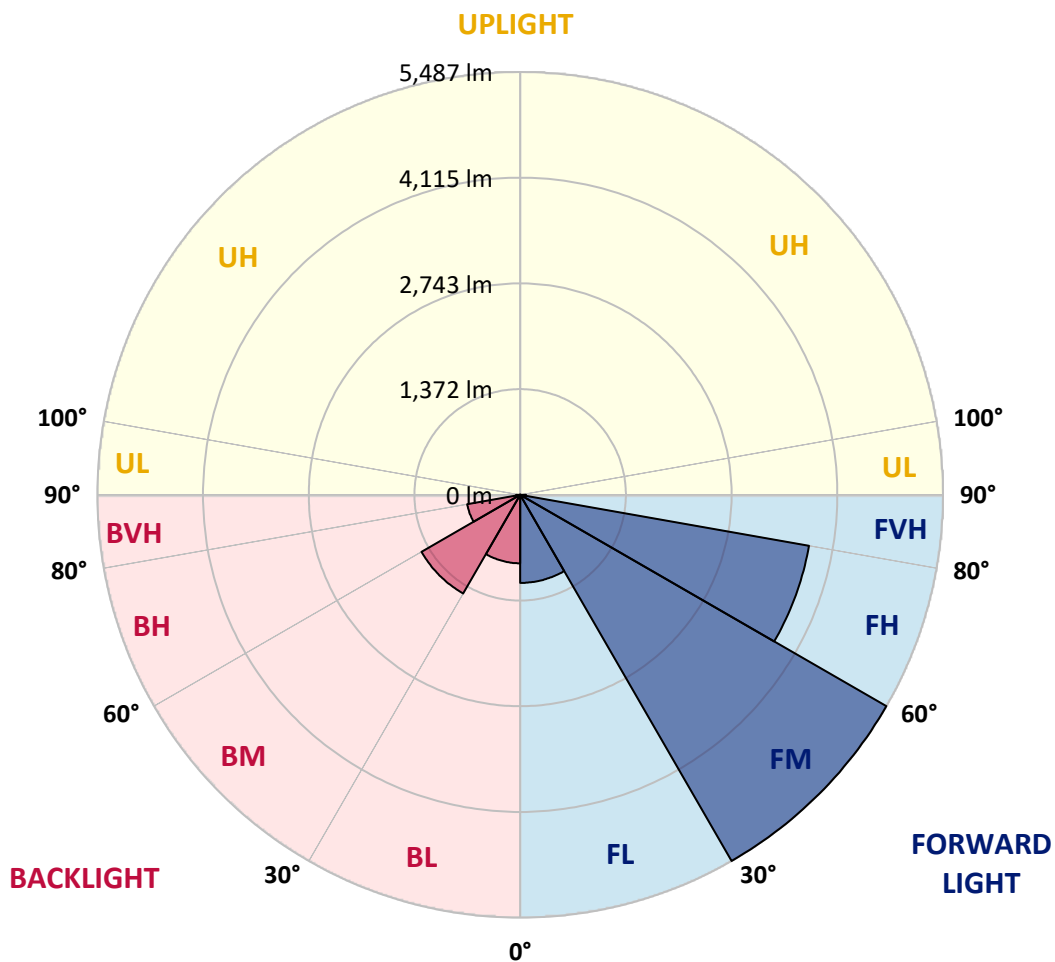
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.0	8.4			
FM (30°-60°)	5486.8	40.3			
FH (60°-80°)	3805.7	27.9			G2/5000
FVH (80°-90°)	75.6	0.6			G1/100
BL (0°-30°)	888.5	6.5	B2/1000		
BM (30°-60°)	1479.1	10.9	B2/2500		
BH (60°-80°)	697.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	50.7	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°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2073.3	2064.5	2052.7	2057.1	2048.3	2063.0	2057.1	2054.2	2054.2	2055.6	2063.0
5°	2120.6	2111.7	2102.9	2101.4	2083.7	2089.6	2080.7	2071.9	2071.9	2070.4	2073.3
7.5°	2203.2	2191.4	2181.1	2179.6	2157.5	2154.5	2127.9	2110.2	2110.2	2108.8	2113.2
10°	2312.4	2308.0	2287.3	2274.0	2247.5	2229.8	2197.3	2169.3	2163.4	2154.5	2166.3
12.5°	2417.2	2415.7	2396.5	2381.8	2344.9	2313.9	2260.8	2222.4	2215.0	2204.7	2213.5
15°	2548.5	2535.2	2514.6	2505.7	2452.6	2405.4	2344.9	2287.3	2279.9	2268.1	2275.5
17.5°	2693.1	2685.8	2653.3	2643.0	2576.6	2522.0	2446.7	2372.9	2361.1	2344.9	2343.4
20°	2867.3	2854.0	2828.9	2799.4	2734.5	2656.2	2569.2	2485.1	2474.7	2461.5	2433.4
22.5°	3054.7	3039.9	3014.8	2983.8	2901.2	2818.6	2709.4	2603.1	2597.2	2588.4	2536.7
25°	3233.2	3208.2	3211.1	3181.6	3107.8	3003.0	2874.6	2747.7	2744.8	2743.3	2660.7
27.5°	3423.6	3397.0	3388.2	3377.9	3308.5	3209.6	3065.0	2944.0	2933.7	2935.2	2809.7
30°	3602.2	3590.4	3583.0	3575.6	3541.7	3453.1	3314.4	3206.7	3239.1	3236.2	3063.5
32.5°	3740.9	3732.0	3763.0	3798.4	3789.6	3715.8	3619.9	3571.2	3603.6	3708.4	3557.9
35°	3863.4	3858.9	3918.0	3993.2	4046.3	3993.2	3982.9	4058.2	4133.4	4307.5	4220.5
37.5°	3996.2	3990.3	4040.4	4168.8	4261.8	4278.0	4356.2	4549.6	4621.9	4796.0	4613.0
40°	3994.7	4002.1	4123.1	4286.9	4456.6	4593.8	4754.7	4942.1	5035.1	5117.7	4834.4
42.5°	3929.8	3934.2	4086.2	4397.6	4644.0	4914.1	5057.2	5297.7	5361.2	5377.4	5095.6
45°	3863.4	3866.3	4031.6	4381.3	4800.4	5213.6	5373.0	5592.9	5641.6	5585.5	5272.6
47.5°	3767.4	3786.6	3965.2	4365.1	4934.7	5489.6	5618.0	5836.4	5855.5	5784.7	5420.2
50°	3653.8	3664.1	3869.3	4312.0	5023.3	5660.8	5812.8	6010.5	6047.4	5967.7	5603.2
52.5°	3515.1	3524.0	3746.8	4241.1	5072.0	5792.1	5961.8	6197.9	6248.1	6212.7	5764.1
55°	3355.7	3360.2	3587.4	4126.0	5058.7	5849.6	6091.7	6463.5	6547.6	6460.6	5898.3
57.5°	3156.5	3172.7	3431.0	3953.4	4958.3	5922.0	6326.3	6791.1	6898.9	6712.9	5998.7
60°	2951.4	2967.6	3202.3	3752.7	4790.1	5954.4	6568.3	7143.8	7238.3	6952.0	6060.7
62.5°	2721.2	2743.3	2938.1	3450.2	4489.1	5911.6	6746.9	7452.2	7505.4	7095.1	6044.4
65°	2386.2	2398.0	2610.5	3085.7	4096.5	5688.8	6739.5	7617.5	7635.2	7253.0	5973.6
67.5°	2014.3	2015.8	2216.5	2645.9	3556.4	5272.6	6636.2	7725.2	7812.3	7369.6	5818.7
70°	1531.8	1552.4	1708.9	2027.6	2907.1	4561.4	6295.3	7619.0	7577.7	7050.9	5374.5
72.5°	1093.5	1081.7	1161.4	1376.8	2035.0	3519.5	5427.6	6884.1	6893.0	6422.2	4676.5
75°	581.4	584.4	652.3	833.8	1038.9	2290.3	4341.5	5815.7	5868.8	5507.3	3659.7
77.5°	129.9	147.6	224.3	318.7	451.6	733.4	2355.2	3814.7	3915.0	3624.3	2005.5
80°	100.3	101.8	147.6	181.5	199.2	351.2	748.2	1384.2	1536.2	1450.6	754.1
82.5°	66.4	67.9	97.4	100.3	95.9	160.9	339.4	414.7	456.0	398.4	280.4
85°	35.4	36.9	44.3	48.7	38.4	47.2	44.3	35.4	36.9	32.5	32.5
87.5°	7.4	4.4	5.9	4.4	4.4	3.0	4.4	4.4	4.4	4.4	4.4
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°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2063.0	2066.0	2073.3	2085.2	2091.1	2104.3	2113.2	2135.3	2166.3	2156.0	2142.7
5°	2074.8	2083.7	2108.8	2139.8	2163.4	2198.8	2216.5	2259.3	2294.7	2291.7	2268.1
7.5°	2119.1	2138.3	2169.3	2215.0	2254.9	2290.3	2315.4	2361.1	2393.6	2380.3	2358.2
10°	2175.2	2194.4	2228.3	2269.6	2299.1	2337.5	2353.7	2390.6	2411.3	2395.0	2375.9
12.5°	2226.8	2237.1	2260.8	2291.7	2308.0	2333.1	2340.4	2367.0	2386.2	2378.8	2355.2
15°	2277.0	2275.5	2279.9	2288.8	2294.7	2300.6	2302.1	2321.3	2334.5	2319.8	2303.6
17.5°	2333.1	2318.3	2299.1	2284.4	2262.2	2251.9	2232.7	2241.6	2240.1	2228.3	2215.0
20°	2403.9	2377.3	2318.3	2272.6	2215.0	2169.3	2129.4	2122.0	2122.0	2089.6	2088.1
22.5°	2488.0	2443.7	2344.9	2244.5	2151.6	2079.2	2005.5	1962.7	1931.7	1908.1	1897.7
25°	2597.2	2516.1	2368.5	2206.2	2068.9	1937.6	1826.9	1767.9	1708.9	1670.5	1664.6
27.5°	2713.8	2625.3	2383.2	2172.2	1955.3	1775.3	1621.8	1500.8	1446.2	1421.1	1397.5
30°	2904.2	2747.7	2409.8	2099.9	1812.1	1576.0	1372.4	1230.7	1177.6	1159.9	1145.1
32.5°	3366.1	3065.0	2434.9	2026.1	1658.7	1356.2	1087.6	968.1	922.3	940.0	945.9
35°	3944.5	3537.2	2554.4	1940.5	1499.3	1106.8	836.7	757.0	760.0	786.5	795.4
37.5°	4337.1	3953.4	2797.9	1832.8	1270.6	820.5	647.8	622.7	644.9	668.5	672.9
40°	4567.3	4143.7	2969.1	1700.0	1000.5	613.9	487.0	469.3	516.5	569.6	602.1
42.5°	4812.2	4306.1	3057.6	1527.3	702.4	444.2	373.4	386.6	461.9	507.6	528.3
45°	4943.6	4433.0	3017.8	1280.9	478.1	345.3	335.0	371.9	447.1	488.5	494.4
47.5°	5085.2	4559.9	2921.9	1024.1	366.0	327.6	329.1	373.4	450.1	494.4	494.4
50°	5207.7	4664.7	2750.7	802.8	348.3	315.8	330.6	380.7	454.5	492.9	491.4
52.5°	5349.4	4711.9	2507.2	649.3	330.6	305.5	332.0	386.6	447.1	469.3	466.3
55°	5393.7	4677.9	2390.6	543.1	317.3	299.6	337.9	395.5	444.2	448.6	441.2
57.5°	5393.7	4586.5	2257.8	463.4	305.5	299.6	340.9	394.0	460.4	488.5	485.5
60°	5370.0	4490.5	2054.2	414.7	289.2	296.6	342.4	416.1	547.5	578.5	577.0
62.5°	5294.8	4335.6	1803.3	366.0	273.0	298.1	337.9	447.1	625.7	612.4	579.9
65°	5116.2	4043.4	1462.4	321.7	255.3	298.1	332.0	491.4	556.3	531.2	519.4
67.5°	4779.8	3675.9	1087.6	276.0	234.6	278.9	323.2	460.4	472.2	444.2	426.5
70°	4335.6	3113.7	698.0	233.2	212.5	262.7	317.3	432.4	456.0	422.0	399.9
72.5°	3612.5	2473.3	404.3	190.4	180.0	242.0	305.5	419.1	448.6	402.9	371.9
75°	2548.5	1561.3	265.6	140.2	144.6	206.6	283.3	392.5	420.6	364.5	320.2
77.5°	1298.6	585.8	188.9	103.3	97.4	157.9	245.0	361.5	414.7	367.4	314.3
80°	458.9	295.1	124.0	67.9	63.5	97.4	187.4	306.9	389.6	358.6	348.3
82.5°	196.3	147.6	67.9	42.8	38.4	48.7	106.2	242.0	342.4	324.7	392.5
85°	28.0	25.1	19.2	16.2	16.2	22.1	33.9	119.5	231.7	264.1	320.2
87.5°	4.4	4.4	4.4	3.0	3.0	3.0	1.5	17.7	76.7	115.1	159.4
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)