

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: P509205

Luminaire Tested: **VERD-CA2-130-727-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-727-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1180mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15363 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

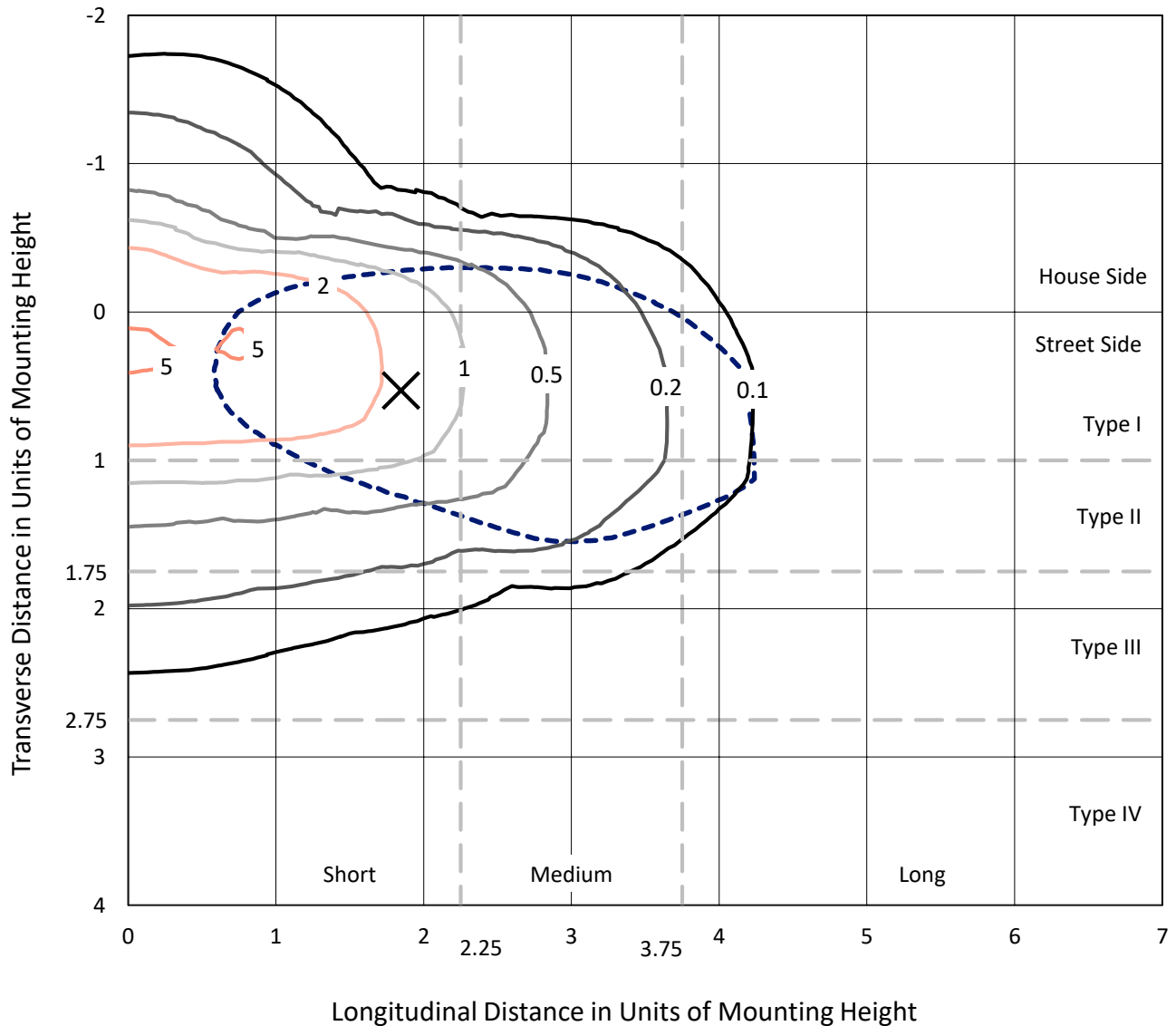
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

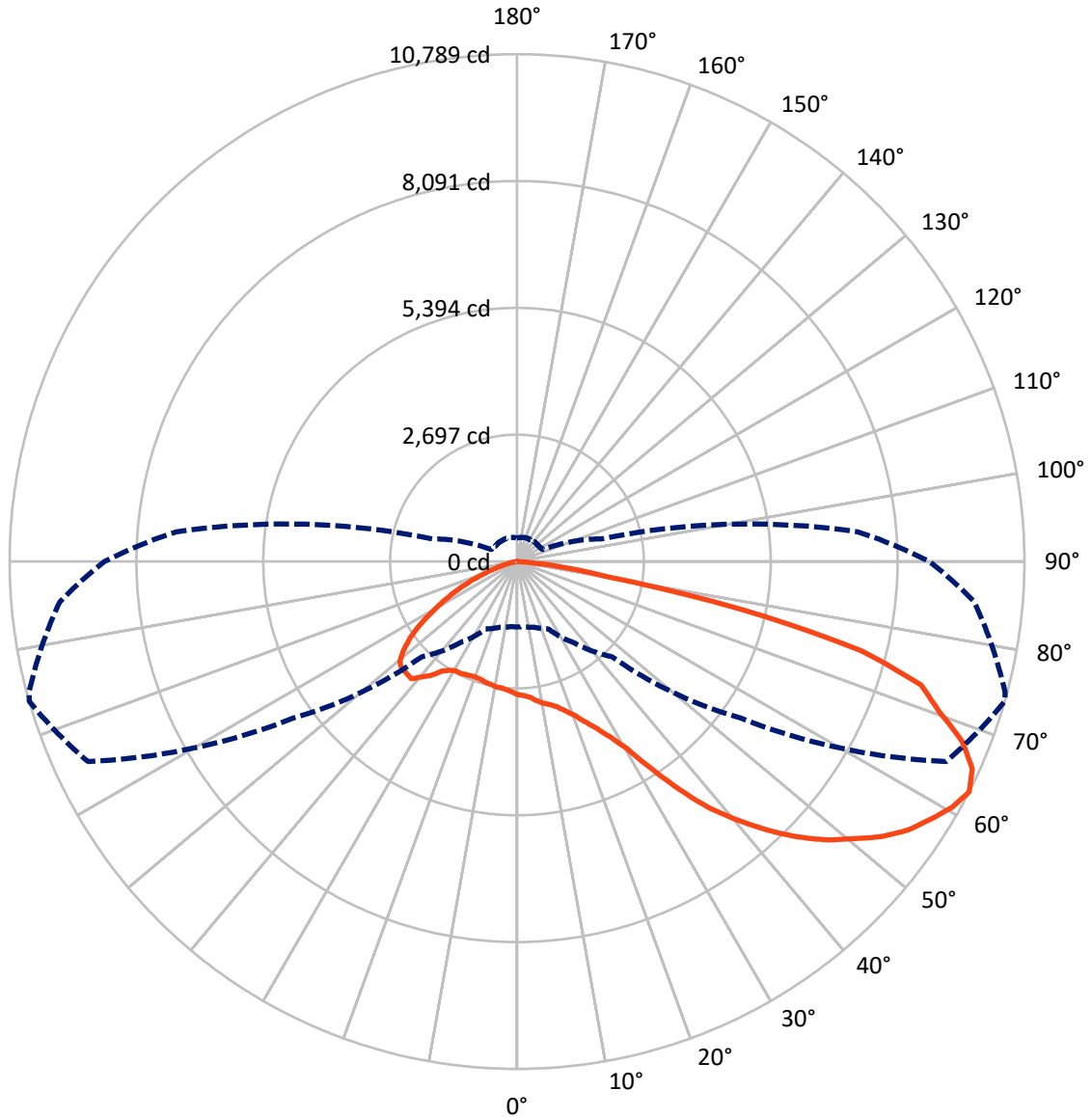
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3966.8	0.0	3966.8
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	11396.2	0.0	11396.2
	% Fixture	74.2	0.0	74.2
Total	Lumens	15363.0	0.0	15363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	1.8
10°-20°	829.9	5.4
20°-30°	1399.4	9.1
30°-40°	2044.7	13.3
40°-50°	2722.5	17.7
50°-60°	3133.1	20.4
60°-70°	3027.6	19.7
70°-80°	1742.9	11.3
80°-90°	190.7	1.2
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°	15363.0	100.0
0°-180°	15363.0	100.0

Coefficient of Utilization



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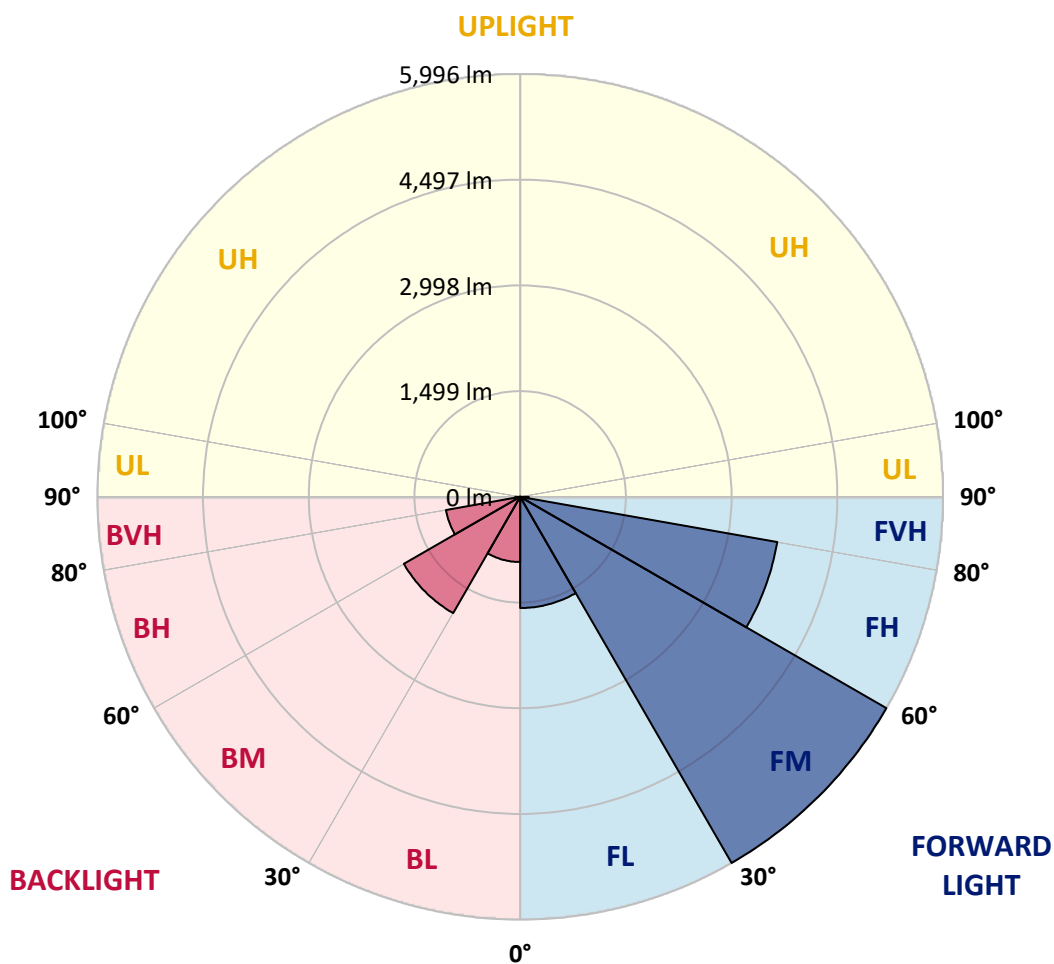
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1576.8	10.3			
FM (30°-60°)	5996.2	39.0			
FH (60°-80°)	3702.6	24.1			G2/5000
FVH (80°-90°)	120.6	0.8			G2/225
BL (0°-30°)	924.8	6.0	B2/1000		
BM (30°-60°)	1904.0	12.4	B2/2500		
BH (60°-80°)	1067.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	70.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9
2.5°	3032.2	3010.4	2997.0	2982.0	2963.5	2956.8	2916.6	2881.4	2853.0	2854.6	2836.2
5°	3142.8	3119.3	3089.2	3084.1	3060.7	3055.7	3017.1	2961.9	2899.9	2891.5	2836.2
7.5°	3266.7	3253.3	3234.9	3211.5	3172.9	3147.8	3092.5	3049.0	2985.3	2976.9	2868.0
10°	3417.5	3407.5	3394.1	3394.1	3343.8	3290.2	3223.2	3114.3	3064.0	3055.7	2923.3
12.5°	3595.1	3564.9	3521.4	3496.3	3449.4	3415.8	3343.8	3228.2	3119.3	3116.0	2975.3
15°	3710.7	3685.6	3657.1	3647.0	3586.7	3531.4	3454.4	3362.2	3209.8	3198.1	3038.9
17.5°	3839.7	3816.2	3782.7	3764.3	3725.8	3662.1	3593.4	3472.8	3337.1	3325.4	3110.9
20°	3911.7	3886.6	3876.5	3879.9	3866.5	3834.7	3752.6	3643.7	3487.9	3472.8	3209.8
22.5°	3992.1	3975.4	3978.7	4003.9	4029.0	4017.3	3953.6	3833.0	3699.0	3675.5	3368.9
25°	3993.8	3980.4	4025.6	4122.8	4176.4	4203.2	4169.7	4070.9	3928.5	3906.7	3571.6
27.5°	4022.3	4002.2	4050.8	4153.0	4315.5	4370.7	4382.5	4345.6	4223.3	4196.5	3814.6
30°	3948.6	3935.2	4008.9	4186.5	4377.4	4561.7	4628.7	4685.7	4617.0	4618.7	4189.8
32.5°	3821.3	3797.8	3910.0	4127.8	4483.0	4734.3	4911.8	5141.4	5246.9	5236.8	4843.2
35°	3578.3	3591.7	3742.5	4075.9	4486.3	4910.2	5258.6	5669.1	5955.5	5948.8	5520.0
37.5°	3405.8	3399.1	3576.7	3930.1	4484.7	5066.0	5595.4	6278.9	6649.1	6639.0	6101.3
40°	3198.1	3199.7	3377.3	3749.2	4405.9	5163.1	5943.8	6856.8	7233.8	7218.7	6657.5
42.5°	2975.3	2982.0	3147.8	3528.1	4297.0	5236.8	6255.4	7441.5	7806.7	7820.1	7103.1
45°	2775.9	2779.2	2943.4	3291.9	4104.4	5245.2	6535.2	7994.3	8349.5	8317.6	7570.5
47.5°	2482.7	2486.1	2729.0	3067.4	3849.7	5176.5	6766.4	8520.3	8845.3	8778.3	7965.8
50°	1945.0	1951.7	2239.8	2834.5	3539.8	5019.1	6949.0	9014.5	9265.8	9237.4	8371.3
52.5°	1795.9	1790.8	1911.5	2556.4	3261.7	4734.3	7064.6	9458.5	9713.1	9709.8	8706.3
55°	1720.5	1715.5	1755.7	2072.3	2988.7	4312.1	7061.2	9803.6	10083.4	10014.7	9012.9
57.5°	1586.5	1576.4	1680.3	1836.1	2683.8	3786.1	6893.7	10113.5	10351.4	10331.3	9289.3
60°	1491.0	1482.6	1553.0	1697.0	2358.8	3251.7	6463.1	10274.3	10621.1	10629.5	9522.2
62.5°	1392.1	1387.1	1447.4	1581.4	2104.1	2861.3	5799.7	10063.3	10788.6	10743.4	9755.0
65°	1279.9	1276.5	1333.5	1442.4	1851.2	2564.8	5149.7	9686.3	10637.9	10689.8	9785.2
67.5°	1145.9	1144.2	1199.5	1274.9	1574.7	2266.6	4154.6	9242.4	10207.3	10150.4	9398.2
70°	981.7	975.0	1043.7	1114.0	1318.4	1928.2	3233.2	8453.3	9507.1	9713.1	8627.6
72.5°	825.9	822.6	887.9	939.8	1092.3	1574.7	2358.8	7310.8	8982.7	8686.2	7773.2
75°	646.6	629.9	698.6	747.2	861.1	1253.1	1608.2	4883.4	7560.4	7498.4	6530.1
77.5°	261.3	303.2	361.9	405.4	480.8	710.3	841.0	2316.9	4823.1	5035.8	4541.6
80°	100.5	107.2	258.0	291.5	323.3	408.8	323.3	976.7	1903.1	2075.6	2630.2
82.5°	57.0	63.7	127.3	122.3	120.6	103.9	120.6	479.1	993.4	1088.9	1269.8
85°	31.8	35.2	51.9	57.0	48.6	41.9	36.9	125.6	247.9	234.5	263.0
87.5°	5.0	6.7	8.4	8.4	5.0	5.0	5.0	6.7	6.7	6.7	8.4
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°	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9	2832.9
2.5°	2817.8	2799.4	2780.9	2759.1	2732.3	2715.6	2708.9	2717.3	2740.7	2712.2	2688.8
5°	2807.7	2782.6	2740.7	2698.8	2665.3	2636.9	2598.3	2595.0	2601.7	2589.9	2559.8
7.5°	2829.5	2792.7	2707.2	2678.7	2608.4	2541.4	2519.6	2511.2	2491.1	2467.7	2439.2
10°	2873.1	2797.7	2710.6	2626.8	2561.5	2489.4	2405.7	2407.3	2399.0	2372.2	2345.4
12.5°	2894.8	2806.1	2678.7	2589.9	2489.4	2400.6	2318.6	2281.7	2296.8	2275.0	2246.5
15°	2935.0	2841.2	2667.0	2536.3	2399.0	2298.5	2236.5	2182.9	2149.4	2154.4	2137.6
17.5°	3010.4	2873.1	2636.9	2477.7	2328.6	2209.7	2090.7	2085.7	2035.4	2007.0	1981.8
20°	3089.2	2930.0	2633.5	2414.0	2214.7	2067.3	1971.8	1918.2	1888.0	1864.6	1846.1
22.5°	3191.4	3008.8	2645.2	2377.2	2112.5	1946.6	1824.4	1752.3	1703.7	1687.0	1673.6
25°	3335.4	3107.6	2677.1	2311.9	2005.3	1814.3	1648.5	1573.1	1517.8	1504.4	1494.3
27.5°	3533.1	3233.2	2708.9	2241.5	1879.6	1628.3	1452.4	1378.7	1316.8	1315.1	1296.6
30°	3844.7	3425.9	2720.6	2179.5	1745.6	1429.0	1253.1	1184.4	1137.5	1119.1	1132.5
32.5°	4426.0	3851.4	2794.3	2084.0	1576.4	1234.7	1085.6	1030.3	978.3	958.2	971.6
35°	5054.2	4360.7	2918.3	2018.7	1390.5	1050.4	948.2	882.9	819.2	809.1	804.1
37.5°	5514.9	4824.7	3152.8	1911.5	1214.6	938.1	804.1	750.5	713.7	693.6	712.0
40°	6037.6	5210.0	3330.4	1797.5	1035.3	819.2	670.1	653.3	636.6	623.2	643.3
42.5°	6451.4	5607.1	3541.5	1646.8	891.2	695.2	596.4	609.8	618.2	611.5	613.1
45°	6831.7	5901.9	3554.9	1417.3	760.6	603.1	574.6	601.4	621.5	618.2	616.5
47.5°	7203.6	6253.7	3586.7	1174.4	666.8	579.6	576.3	596.4	623.2	628.2	628.2
50°	7587.2	6521.8	3538.1	944.8	631.6	583.0	581.3	579.6	613.1	614.8	619.8
52.5°	7875.4	6739.6	3308.6	780.7	629.9	593.0	589.7	572.9	588.0	599.7	591.4
55°	8180.3	7010.9	3018.8	718.7	626.5	596.4	609.8	581.3	571.3	561.2	571.3
57.5°	8470.1	7200.2	2638.5	681.8	613.1	591.4	618.2	579.6	557.9	529.4	519.3
60°	8692.9	7243.8	2214.7	643.3	596.4	579.6	581.3	567.9	539.4	504.3	489.2
62.5°	8768.3	7268.9	1862.9	606.4	562.9	561.2	547.8	542.8	531.1	509.3	502.6
65°	8704.6	6984.1	1487.6	561.2	534.4	536.1	516.0	499.2	472.4	437.2	433.9
67.5°	8267.4	6483.2	1140.8	504.3	490.8	507.6	485.8	457.3	427.2	403.7	407.1
70°	7518.5	5890.2	800.8	425.5	440.6	470.7	462.4	425.5	392.0	371.9	375.3
72.5°	6685.9	4990.6	544.5	331.7	358.5	422.2	422.2	397.0	363.5	336.7	330.0
75°	5273.7	3920.1	351.8	219.5	236.2	345.1	373.6	335.1	298.2	281.4	274.7
77.5°	3580.0	2553.1	224.5	125.6	157.5	226.2	294.8	299.9	353.5	355.2	340.1
80°	2104.1	1460.8	137.4	73.7	78.7	130.7	236.2	296.5	375.3	264.7	242.9
82.5°	1047.0	623.2	62.0	45.2	46.9	65.3	127.3	340.1	289.8	165.9	159.1
85°	232.9	102.2	25.1	23.5	26.8	33.5	65.3	281.4	177.6	134.0	130.7
87.5°	8.4	6.7	6.7	6.7	5.0	5.0	13.4	92.1	70.4	58.6	55.3
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)