

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: P509133

Luminaire Tested: **VERD-CA2-110-750-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509133
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-CA2-110-750-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16276 lumens
Efficiency: N/A
Efficacy: 143.3 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

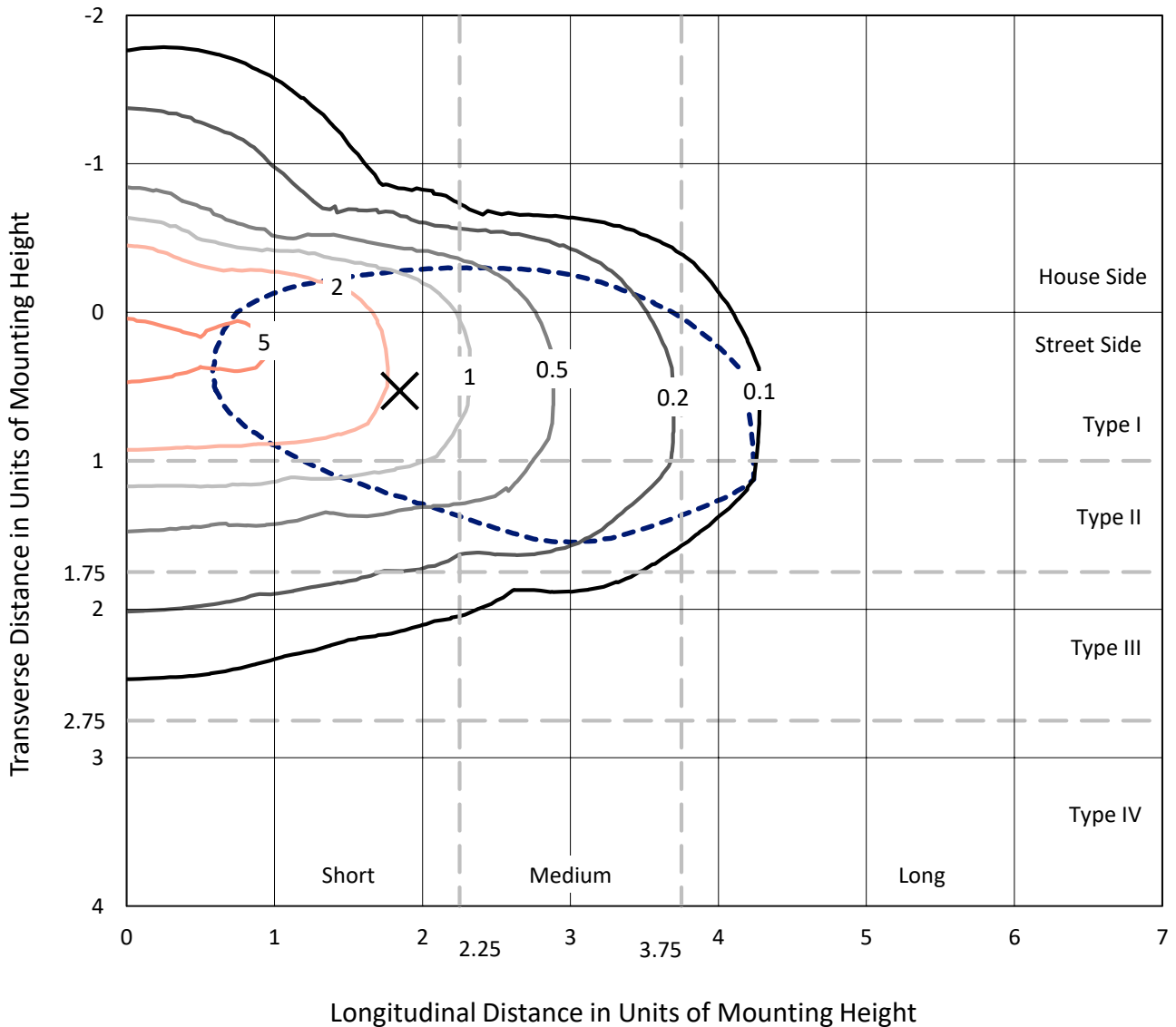
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

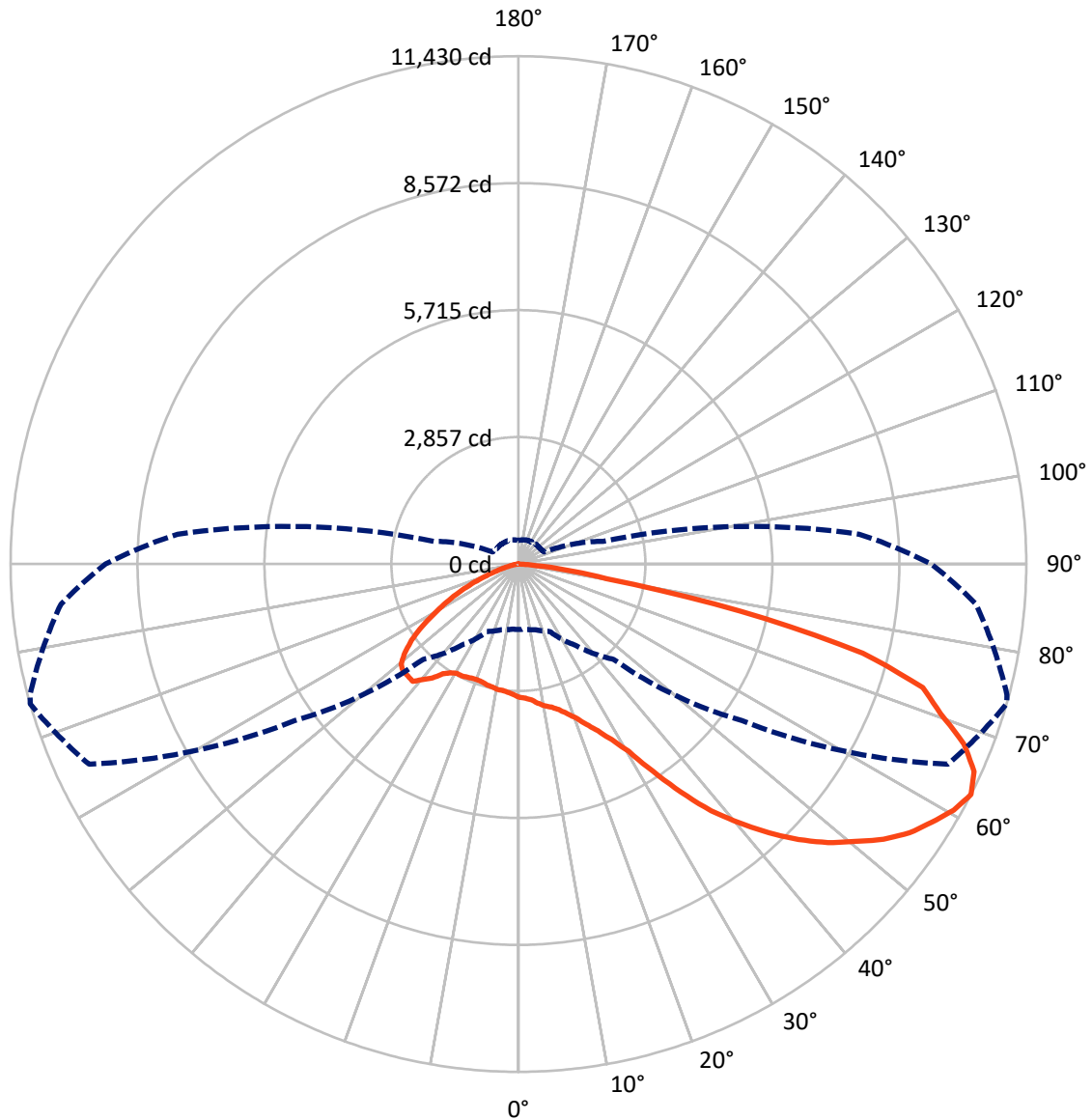
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	4202.6	0.0	4202.6
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	12073.4	0.0	12073.4
	% Fixture	74.2	0.0	74.2
Total	Lumens	16276.0	0.0	16276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	1.8
10°-20°	879.2	5.4
20°-30°	1482.6	9.1
30°-40°	2166.2	13.3
40°-50°	2884.3	17.7
50°-60°	3319.3	20.4
60°-70°	3207.5	19.7
70°-80°	1846.5	11.3
80°-90°	202.0	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°	16276.0	100.0
0°-180°	16276.0	100.0

Coefficient of Utilization



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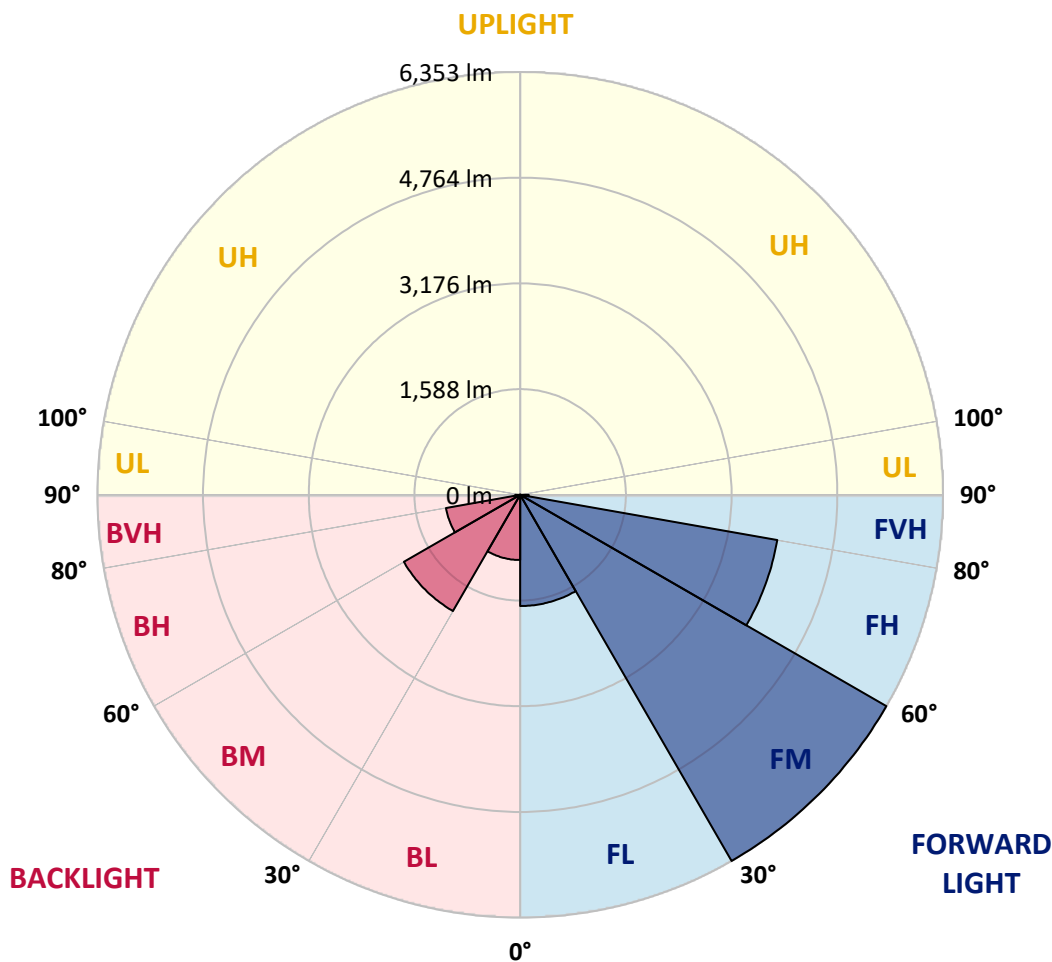
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.5	10.3			
FM (30°-60°)	6352.5	39.0			
FH (60°-80°)	3922.6	24.1			G2/5000
FVH (80°-90°)	127.8	0.8			G2/225
BL (0°-30°)	979.8	6.0	B2/1000		
BM (30°-60°)	2017.2	12.4	B2/2500		
BH (60°-80°)	1131.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.2	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°	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2
2.5°	3212.4	3189.3	3175.1	3159.2	3139.6	3132.5	3089.9	3052.7	3022.5	3024.3	3004.8
5°	3329.5	3304.7	3272.8	3267.4	3242.6	3237.3	3196.4	3137.9	3072.2	3063.3	3004.8
7.5°	3460.9	3446.7	3427.2	3402.3	3361.5	3334.9	3276.3	3230.2	3162.7	3153.8	3038.5
10°	3620.6	3610.0	3595.8	3595.8	3542.5	3485.7	3414.7	3299.4	3246.1	3237.3	3097.0
12.5°	3808.7	3776.8	3730.7	3704.0	3654.3	3618.8	3542.5	3420.1	3304.7	3301.2	3152.1
15°	3931.2	3904.6	3874.4	3863.8	3799.9	3741.3	3659.7	3562.1	3400.5	3388.1	3219.5
17.5°	4067.9	4043.0	4007.5	3988.0	3947.2	3879.7	3807.0	3679.2	3535.4	3523.0	3295.8
20°	4144.2	4117.6	4106.9	4110.5	4096.3	4062.5	3975.6	3860.2	3695.2	3679.2	3400.5
22.5°	4229.4	4211.6	4215.2	4241.8	4268.4	4256.0	4188.6	4060.8	3918.8	3893.9	3569.1
25°	4231.2	4217.0	4264.9	4367.8	4424.6	4453.0	4417.5	4312.8	4161.9	4138.9	3783.9
27.5°	4261.3	4240.0	4291.5	4399.8	4571.9	4630.5	4642.9	4603.9	4474.3	4445.9	4041.2
30°	4183.2	4169.0	4247.1	4435.3	4637.6	4832.8	4903.8	4964.2	4891.4	4893.2	4438.8
32.5°	4048.3	4023.5	4142.4	4373.1	4749.4	5015.6	5203.8	5446.9	5558.7	5548.1	5131.0
35°	3791.0	3805.2	3964.9	4318.1	4752.9	5202.0	5571.1	6006.0	6309.5	6302.4	5848.0
37.5°	3608.2	3601.1	3789.2	4163.7	4751.2	5367.0	5927.9	6652.0	7044.2	7033.6	6463.9
40°	3388.1	3389.9	3578.0	3972.0	4667.8	5470.0	6297.0	7264.3	7663.6	7647.7	7053.1
42.5°	3152.1	3159.2	3334.9	3737.8	4552.4	5548.1	6627.2	7883.7	8270.6	8284.8	7525.2
45°	2940.9	2944.4	3118.3	3487.5	4348.3	5556.9	6923.5	8469.4	8845.7	8811.9	8020.4
47.5°	2630.3	2633.8	2891.2	3249.7	4078.5	5484.2	7168.5	9026.7	9371.0	9300.0	8439.2
50°	2060.6	2067.7	2372.9	3003.0	3750.2	5317.3	7361.9	9550.3	9816.5	9786.3	8868.7
52.5°	1902.6	1897.3	2025.1	2708.4	3455.6	5015.6	7484.4	10020.6	10290.4	10286.8	9223.7
55°	1822.7	1817.4	1860.0	2195.4	3166.3	4568.4	7480.8	10386.2	10682.6	10609.8	9548.5
57.5°	1680.7	1670.1	1780.1	1945.2	2843.3	4011.1	7303.4	10714.5	10966.6	10945.3	9841.3
60°	1579.6	1570.7	1645.3	1797.9	2498.9	3444.9	6847.2	10884.9	11252.3	11261.2	10088.0
62.5°	1474.9	1469.5	1533.4	1675.4	2229.2	3031.4	6144.4	10661.3	11429.8	11381.9	10334.7
65°	1356.0	1352.4	1412.8	1528.1	1961.2	2717.2	5455.8	10262.0	11270.1	11325.1	10366.7
67.5°	1214.0	1212.2	1270.8	1350.6	1668.3	2401.3	4401.5	9791.6	10813.9	10753.6	9956.7
70°	1040.0	1032.9	1105.7	1180.3	1396.8	2042.8	3425.4	8955.7	10072.1	10290.4	9140.3
72.5°	875.0	871.4	940.7	995.7	1157.2	1668.3	2498.9	7745.3	9516.5	9202.4	8235.1
75°	685.1	667.3	740.1	791.6	912.3	1327.6	1703.8	5173.6	8009.7	7944.1	6918.2
77.5°	276.9	321.2	383.4	429.5	509.4	752.5	891.0	2454.6	5109.7	5335.1	4811.5
80°	106.5	113.6	273.3	308.8	342.5	433.1	342.5	1034.7	2016.2	2199.0	2786.5
82.5°	60.3	67.4	134.9	129.6	127.8	110.0	127.8	507.6	1052.5	1153.6	1345.3
85°	33.7	37.3	55.0	60.3	51.5	44.4	39.0	133.1	262.7	248.5	278.6
87.5°	5.3	7.1	8.9	8.9	5.3	5.3	5.3	7.1	7.1	7.1	8.9
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°	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2
2.5°	2985.2	2965.7	2946.2	2923.1	2894.7	2877.0	2869.9	2878.7	2903.6	2873.4	2848.6
5°	2974.6	2948.0	2903.6	2859.2	2823.7	2793.6	2752.7	2749.2	2756.3	2743.9	2711.9
7.5°	2997.7	2958.6	2868.1	2837.9	2763.4	2692.4	2669.3	2660.4	2639.1	2614.3	2584.1
10°	3043.8	2963.9	2871.6	2782.9	2713.7	2637.4	2548.6	2550.4	2541.5	2513.1	2484.7
12.5°	3066.9	2972.8	2837.9	2743.9	2637.4	2543.3	2456.3	2417.3	2433.3	2410.2	2380.0
15°	3109.5	3010.1	2825.5	2687.1	2541.5	2435.0	2369.4	2312.6	2277.1	2282.4	2264.7
17.5°	3189.3	3043.8	2793.6	2624.9	2467.0	2341.0	2215.0	2209.6	2156.4	2126.2	2099.6
20°	3272.8	3104.1	2790.0	2557.5	2346.3	2190.1	2089.0	2032.2	2000.2	1975.4	1955.8
22.5°	3381.0	3187.6	2802.4	2518.5	2238.0	2062.3	1932.8	1856.5	1805.0	1787.2	1773.0
25°	3533.7	3292.3	2836.2	2449.2	2124.5	1922.1	1746.4	1666.5	1608.0	1593.8	1583.1
27.5°	3743.1	3425.4	2869.9	2374.7	1991.3	1725.1	1538.8	1460.7	1395.0	1393.2	1373.7
30°	4073.2	3629.5	2882.3	2309.0	1849.4	1513.9	1327.6	1254.8	1205.1	1185.6	1199.8
32.5°	4689.1	4080.3	2960.4	2207.9	1670.1	1308.0	1150.1	1091.5	1036.5	1015.2	1029.4
35°	5354.6	4619.8	3091.7	2138.6	1473.1	1112.8	1004.5	935.3	867.9	857.2	851.9
37.5°	5842.7	5111.5	3340.2	2025.1	1286.7	993.9	851.9	795.1	756.1	734.8	754.3
40°	6396.4	5519.7	3528.3	1904.4	1096.8	867.9	709.9	692.2	674.4	660.2	681.5
42.5°	6834.8	5940.3	3752.0	1744.6	944.2	736.5	631.8	646.0	654.9	647.8	649.6
45°	7237.7	6252.7	3766.2	1501.5	805.8	638.9	608.8	637.2	658.5	654.9	653.1
47.5°	7631.7	6625.4	3799.9	1244.1	706.4	614.1	610.5	631.8	660.2	665.6	665.6
50°	8038.1	6909.3	3748.4	1001.0	669.1	617.6	615.9	614.1	649.6	651.4	656.7
52.5°	8343.4	7140.1	3505.3	827.1	667.3	628.3	624.7	607.0	623.0	635.4	626.5
55°	8666.4	7427.6	3198.2	761.4	663.8	631.8	646.0	615.9	605.2	594.6	605.2
57.5°	8973.5	7628.1	2795.3	722.3	649.6	626.5	654.9	614.1	591.0	560.8	550.2
60°	9209.5	7674.3	2346.3	681.5	631.8	614.1	615.9	601.7	571.5	534.2	518.2
62.5°	9289.4	7700.9	1973.6	642.5	596.3	594.6	580.4	575.0	562.6	539.5	532.4
65°	9221.9	7399.2	1576.0	594.6	566.2	567.9	546.6	528.9	500.5	463.2	459.7
67.5°	8758.7	6868.5	1208.6	534.2	520.0	537.8	514.7	484.5	452.6	427.7	431.3
70°	7965.4	6240.2	848.4	450.8	466.8	498.7	489.8	450.8	415.3	394.0	397.6
72.5°	7083.3	5287.2	576.8	351.4	379.8	447.3	447.3	420.6	385.1	356.7	349.6
75°	5587.1	4153.1	372.7	232.5	250.2	365.6	395.8	355.0	315.9	298.2	291.1
77.5°	3792.8	2704.8	237.8	133.1	166.8	239.6	312.4	317.7	374.5	376.3	360.3
80°	2229.2	1547.6	145.5	78.1	83.4	138.4	250.2	314.1	397.6	280.4	257.3
82.5°	1109.3	660.2	65.7	47.9	49.7	69.2	134.9	360.3	307.0	175.7	168.6
85°	246.7	108.3	26.6	24.8	28.4	35.5	69.2	298.2	188.1	142.0	138.4
87.5°	8.9	7.1	7.1	7.1	5.3	5.3	14.2	97.6	74.5	62.1	58.6
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)