

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: P509207

Luminaire Tested: **VERD-CA2-130-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509207
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-CA2-130-727-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1180mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15468 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

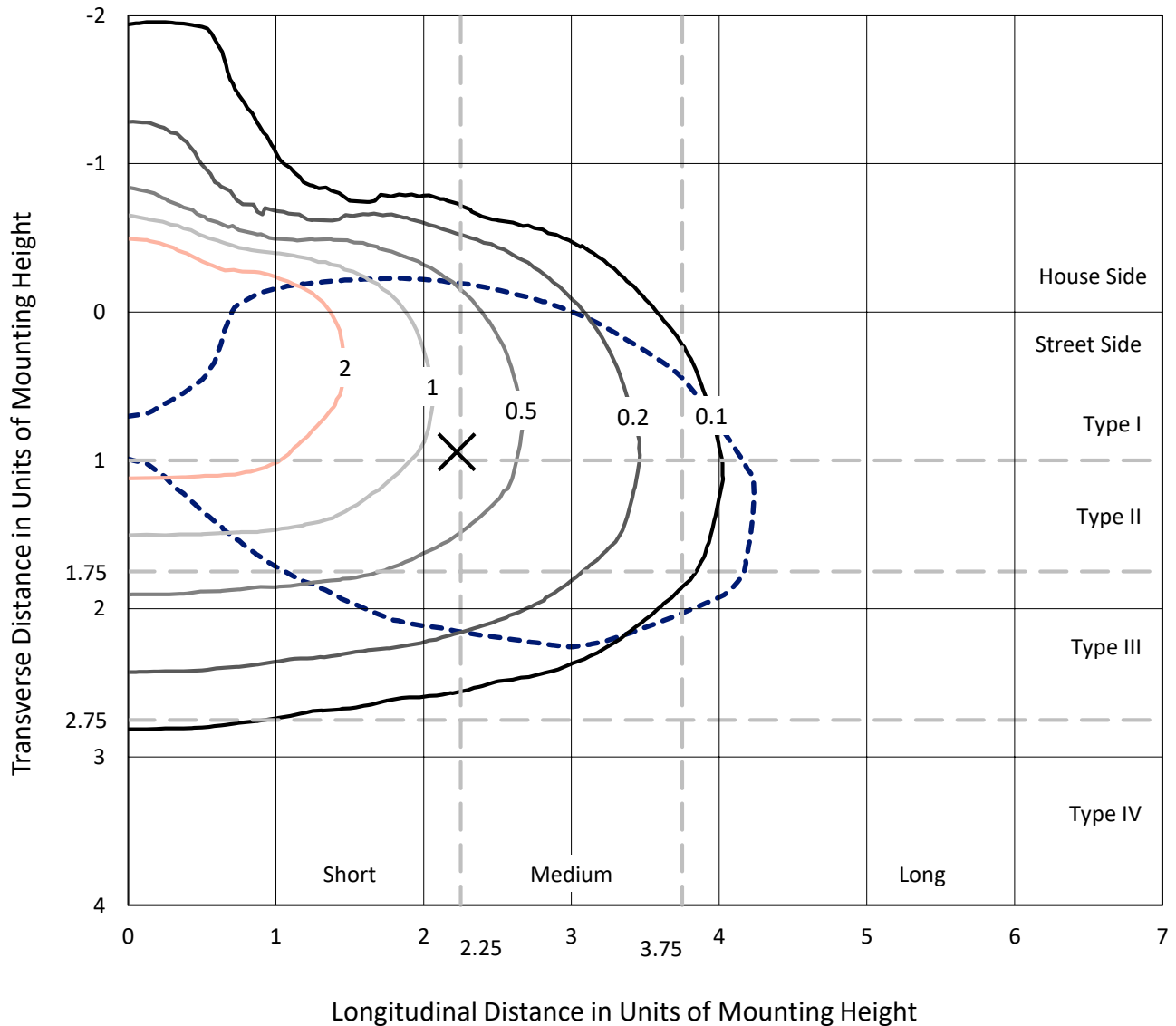
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

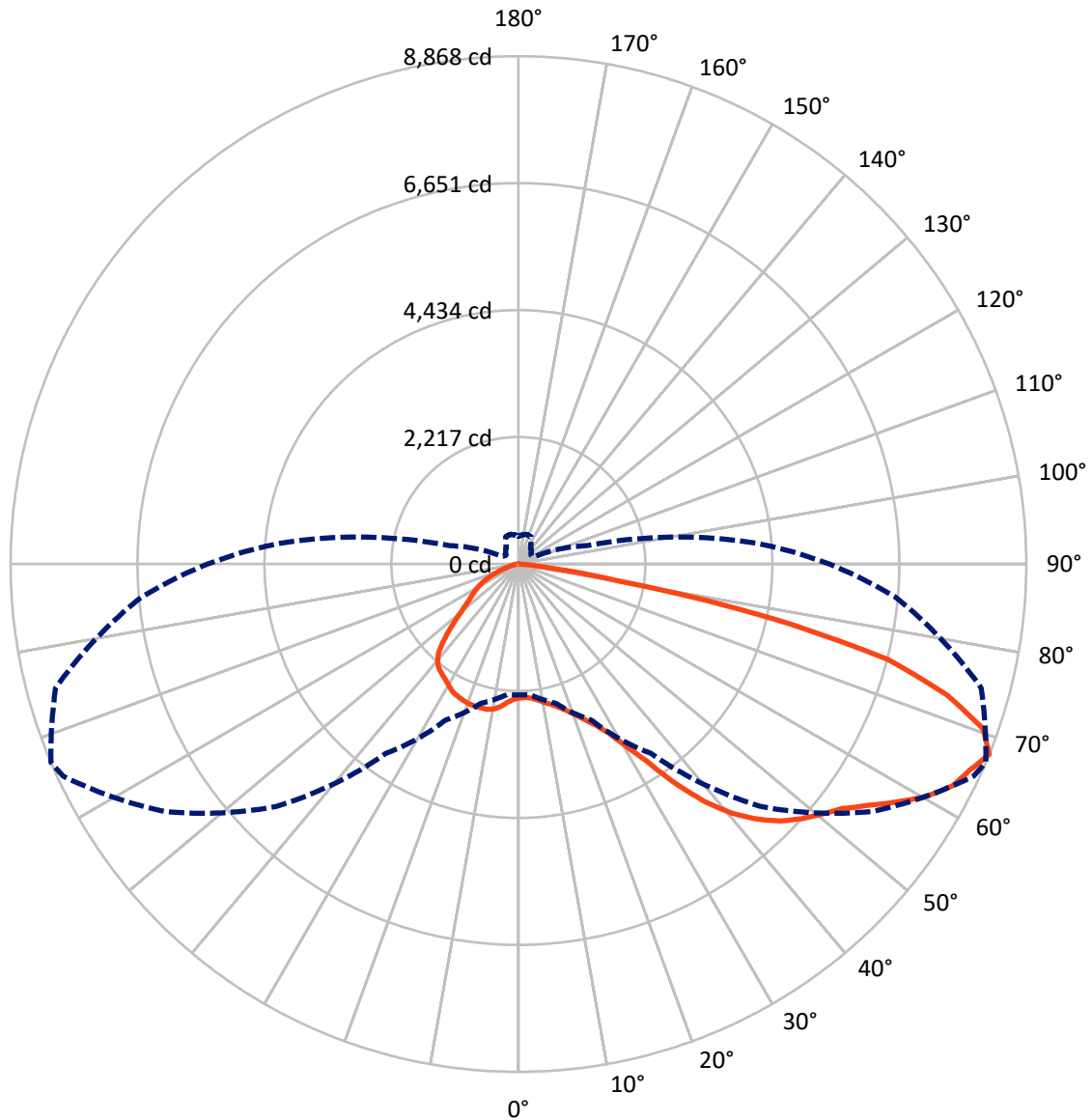
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	3536.9	0.0	3536.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11931.1	0.0	11931.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	15468.0	0.0	15468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.5
10°-20°	758.4	4.9
20°-30°	1310.5	8.5
30°-40°	1989.2	12.9
40°-50°	2703.0	17.5
50°-60°	3214.7	20.8
60°-70°	3307.5	21.4
70°-80°	1804.2	11.7
80°-90°	143.4	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°	15468.0	100.0
0°-180°	15468.0	100.0

Coefficient of Utilization



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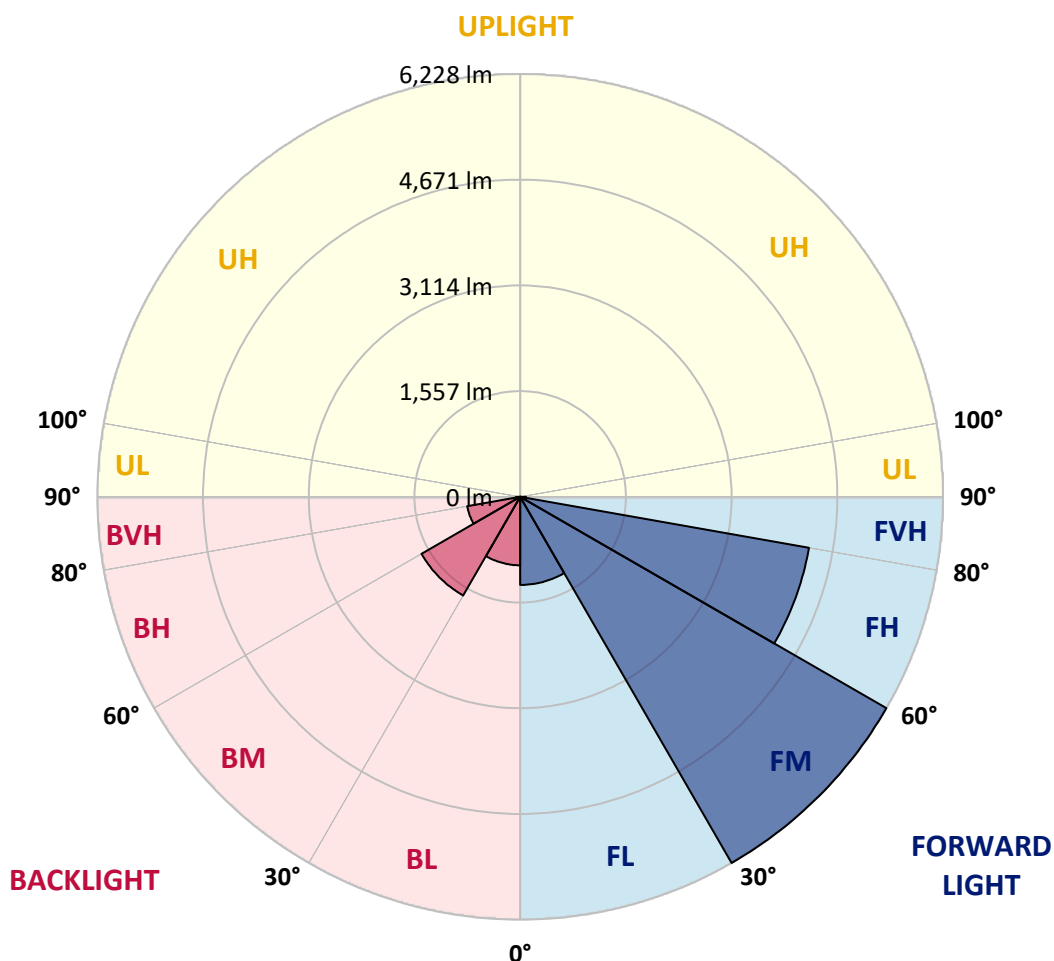
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.4	8.4			
FM (30°-60°)	6228.1	40.3			
FH (60°-80°)	4319.9	27.9			G2/5000
FVH (80°-90°)	85.8	0.6			G1/100
BL (0°-30°)	1008.5	6.5	B3/2500		
BM (30°-60°)	1678.9	10.9	B2/2500		
BH (60°-80°)	791.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	57.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1
2.5°	2353.5	2343.4	2330.0	2335.0	2325.0	2341.7	2335.0	2331.7	2331.7	2333.4	2341.7
5°	2407.1	2397.0	2387.0	2385.3	2365.2	2371.9	2361.8	2351.8	2351.8	2350.1	2353.5
7.5°	2500.9	2487.5	2475.7	2474.1	2448.9	2445.6	2415.4	2395.3	2395.3	2393.7	2398.7
10°	2624.8	2619.8	2596.3	2581.3	2551.1	2531.0	2494.2	2462.3	2455.6	2445.6	2459.0
12.5°	2743.7	2742.1	2720.3	2703.5	2661.7	2626.5	2566.2	2522.6	2514.3	2502.5	2512.6
15°	2892.8	2877.7	2854.3	2844.2	2783.9	2730.3	2661.7	2596.3	2588.0	2574.6	2582.9
17.5°	3057.0	3048.6	3011.8	3000.0	2924.6	2862.7	2777.2	2693.5	2680.1	2661.7	2660.0
20°	3254.6	3239.6	3211.1	3177.6	3103.9	3015.1	2916.3	2820.8	2809.1	2794.0	2762.2
22.5°	3467.4	3450.6	3422.1	3387.0	3293.2	3199.4	3075.4	2954.8	2948.1	2938.0	2879.4
25°	3670.0	3641.6	3644.9	3611.4	3527.7	3408.7	3263.0	3119.0	3115.6	3113.9	3020.1
27.5°	3886.1	3856.0	3845.9	3834.2	3755.5	3643.2	3479.1	3341.7	3330.0	3331.7	3189.3
30°	4088.8	4075.4	4067.0	4058.7	4020.1	3919.6	3762.2	3639.9	3676.7	3673.4	3477.4
32.5°	4246.3	4236.2	4271.4	4311.6	4301.5	4217.8	4108.9	4053.6	4090.5	4209.4	4038.6
35°	4385.3	4380.3	4447.3	4532.7	4593.0	4532.7	4521.0	4606.4	4691.8	4889.5	4790.7
37.5°	4536.1	4529.4	4586.3	4732.0	4837.6	4856.0	4944.8	5164.2	5246.3	5443.9	5236.2
40°	4534.4	4542.8	4680.1	4866.0	5058.7	5214.5	5397.0	5609.8	5715.3	5809.1	5487.5
42.5°	4460.7	4465.7	4638.2	4991.7	5271.4	5577.9	5740.4	6013.5	6085.5	6103.9	5784.0
45°	4385.3	4388.6	4576.3	4973.2	5449.0	5918.0	6098.9	6348.5	6403.7	6340.1	5985.0
47.5°	4276.4	4298.2	4500.9	4954.8	5601.4	6231.2	6376.9	6624.9	6646.6	6566.2	6152.5
50°	4147.4	4159.2	4392.0	4894.5	5701.9	6425.5	6598.0	6822.5	6864.4	6773.9	6360.2
52.5°	3990.0	4000.0	4253.0	4814.1	5757.2	6574.6	6767.2	7035.2	7092.2	7052.0	6542.8
55°	3809.1	3814.1	4072.1	4683.5	5742.1	6639.9	6914.6	7336.7	7432.2	7333.4	6695.2
57.5°	3582.9	3601.4	3894.5	4487.5	5628.2	6722.0	7181.0	7708.6	7830.9	7619.8	6809.1
60°	3350.1	3368.5	3634.9	4259.7	5437.2	6758.9	7455.7	8109.0	8216.2	7891.2	6879.5
62.5°	3088.8	3113.9	3335.0	3916.3	5095.5	6710.3	7658.4	8459.0	8519.3	8053.7	6861.0
65°	2708.6	2722.0	2963.2	3502.5	4650.0	6457.3	7650.0	8646.6	8666.7	8232.9	6780.6
67.5°	2286.5	2288.1	2515.9	3003.4	4036.9	5985.0	7532.7	8768.9	8867.8	8365.2	6604.7
70°	1738.7	1762.2	1939.7	2301.5	3299.9	5177.6	7145.8	8648.3	8601.4	8003.4	6100.6
72.5°	1241.2	1227.8	1318.3	1562.8	2309.9	3995.0	6160.9	7814.1	7824.2	7289.8	5308.3
75°	660.0	663.3	740.4	946.4	1179.2	2599.7	4928.0	6601.4	6661.7	6251.3	4154.1
77.5°	147.4	167.5	254.6	361.8	512.6	832.5	2673.4	4330.0	4443.9	4113.9	2276.4
80°	113.9	115.6	167.5	206.0	226.1	398.7	849.3	1571.2	1743.7	1646.6	856.0
82.5°	75.4	77.1	110.6	113.9	108.9	182.6	385.3	470.7	517.6	452.3	318.3
85°	40.2	41.9	50.3	55.3	43.6	53.6	50.3	40.2	41.9	36.9	36.9
87.5°	8.4	5.0	6.7	5.0	5.0	3.4	5.0	5.0	5.0	5.0	5.0
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°	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1
2.5°	2341.7	2345.1	2353.5	2366.9	2373.6	2388.6	2398.7	2423.8	2459.0	2447.3	2432.2
5°	2355.1	2365.2	2393.7	2428.8	2455.6	2495.8	2515.9	2564.5	2604.7	2601.4	2574.6
7.5°	2405.4	2427.2	2462.3	2514.3	2559.5	2599.7	2628.2	2680.1	2716.9	2701.9	2676.7
10°	2469.0	2490.8	2529.3	2576.2	2609.7	2653.3	2671.7	2713.6	2737.0	2718.6	2696.8
12.5°	2527.7	2539.4	2566.2	2601.4	2619.8	2648.3	2656.6	2686.8	2708.6	2700.2	2673.4
15°	2584.6	2582.9	2588.0	2598.0	2604.7	2611.4	2613.1	2634.9	2649.9	2633.2	2614.8
17.5°	2648.3	2631.5	2609.7	2593.0	2567.9	2556.1	2534.4	2544.4	2542.7	2529.3	2514.3
20°	2728.7	2698.5	2631.5	2579.6	2514.3	2462.3	2417.1	2408.7	2408.7	2371.9	2370.2
22.5°	2824.1	2773.9	2661.7	2547.8	2442.2	2360.2	2276.4	2227.8	2192.6	2165.8	2154.1
25°	2948.1	2856.0	2688.5	2504.2	2348.4	2199.3	2073.7	2006.7	1939.7	1896.2	1889.5
27.5°	3080.4	2979.9	2705.2	2465.7	2219.5	2015.1	1840.9	1703.5	1641.6	1613.1	1586.3
30°	3296.5	3119.0	2735.4	2383.6	2057.0	1789.0	1557.8	1397.0	1336.7	1316.6	1299.8
32.5°	3820.8	3479.1	2763.8	2299.9	1882.8	1539.4	1234.5	1098.8	1046.9	1067.0	1073.7
35°	4477.4	4015.1	2899.5	2202.7	1701.9	1256.3	949.8	859.3	862.7	892.8	902.9
37.5°	4923.0	4487.5	3175.9	2080.4	1442.2	931.3	735.3	706.9	732.0	758.8	763.8
40°	5184.3	4703.6	3370.2	1929.7	1135.7	696.8	552.8	532.7	586.3	646.6	683.4
42.5°	5462.4	4887.8	3470.7	1733.7	797.3	504.2	423.8	438.9	524.3	576.2	599.7
45°	5611.4	5031.9	3425.5	1453.9	542.7	392.0	380.2	422.1	507.5	554.4	561.1
47.5°	5772.2	5175.9	3316.6	1162.5	415.4	371.9	373.5	423.8	510.9	561.1	561.1
50°	5911.3	5294.9	3122.3	911.2	395.3	358.5	375.2	432.2	515.9	559.5	557.8
52.5°	6072.1	5348.5	2845.9	737.0	375.2	346.7	376.9	438.9	507.5	532.7	529.3
55°	6122.3	5309.9	2713.6	616.4	360.1	340.0	383.6	448.9	504.2	509.2	500.8
57.5°	6122.3	5206.1	2562.8	526.0	346.7	340.0	386.9	447.2	522.6	554.4	551.1
60°	6095.5	5097.2	2331.7	470.7	328.3	336.7	388.6	472.4	621.4	656.6	654.9
62.5°	6010.1	4921.3	2046.9	415.4	309.9	338.4	383.6	507.5	710.2	695.1	658.3
65°	5807.4	4589.7	1660.0	365.2	289.8	338.4	376.9	557.8	631.5	603.0	589.6
67.5°	5425.5	4172.6	1234.5	313.2	266.3	316.6	366.8	522.6	536.0	504.2	484.1
70°	4921.3	3534.4	792.3	264.7	241.2	298.2	360.1	490.8	517.6	479.1	453.9
72.5°	4100.5	2807.4	459.0	216.1	204.4	274.7	346.7	475.7	509.2	457.3	422.1
75°	2892.8	1772.2	301.5	159.1	164.2	234.5	321.6	445.6	477.4	413.7	363.5
77.5°	1474.1	665.0	214.4	117.3	110.6	179.2	278.1	410.4	470.7	417.1	356.8
80°	520.9	335.0	140.7	77.1	72.0	110.6	212.7	348.4	442.2	407.0	395.3
82.5°	222.8	167.5	77.1	48.6	43.6	55.3	120.6	274.7	388.6	368.5	445.6
85°	31.8	28.5	21.8	18.4	18.4	25.1	38.5	135.7	263.0	299.8	363.5
87.5°	5.0	5.0	5.0	3.4	3.4	3.4	1.7	20.1	87.1	130.7	180.9
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)