

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: P509952

Luminaire Tested: **VERD-M-CA3-170-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-170-750-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22376 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

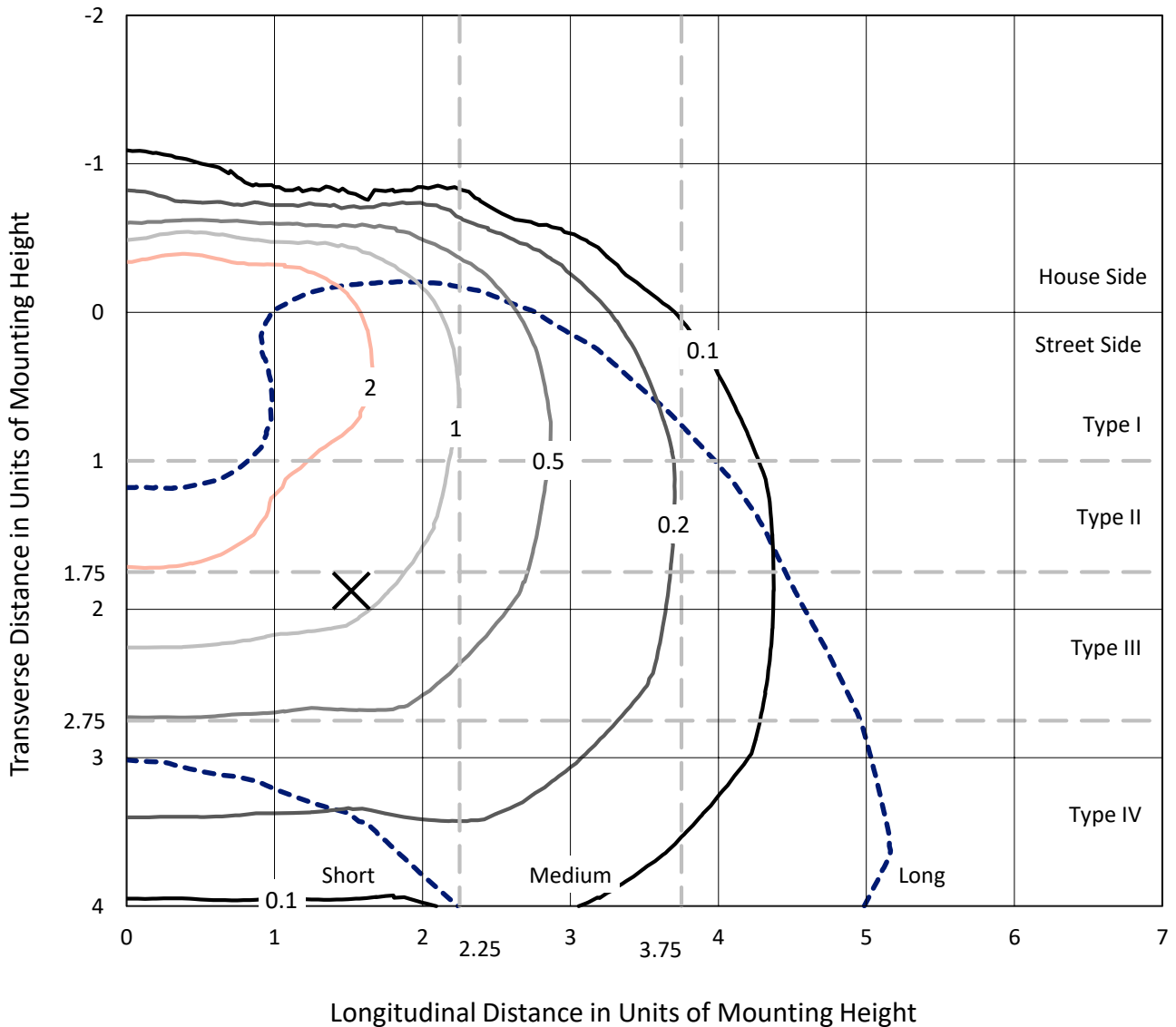
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

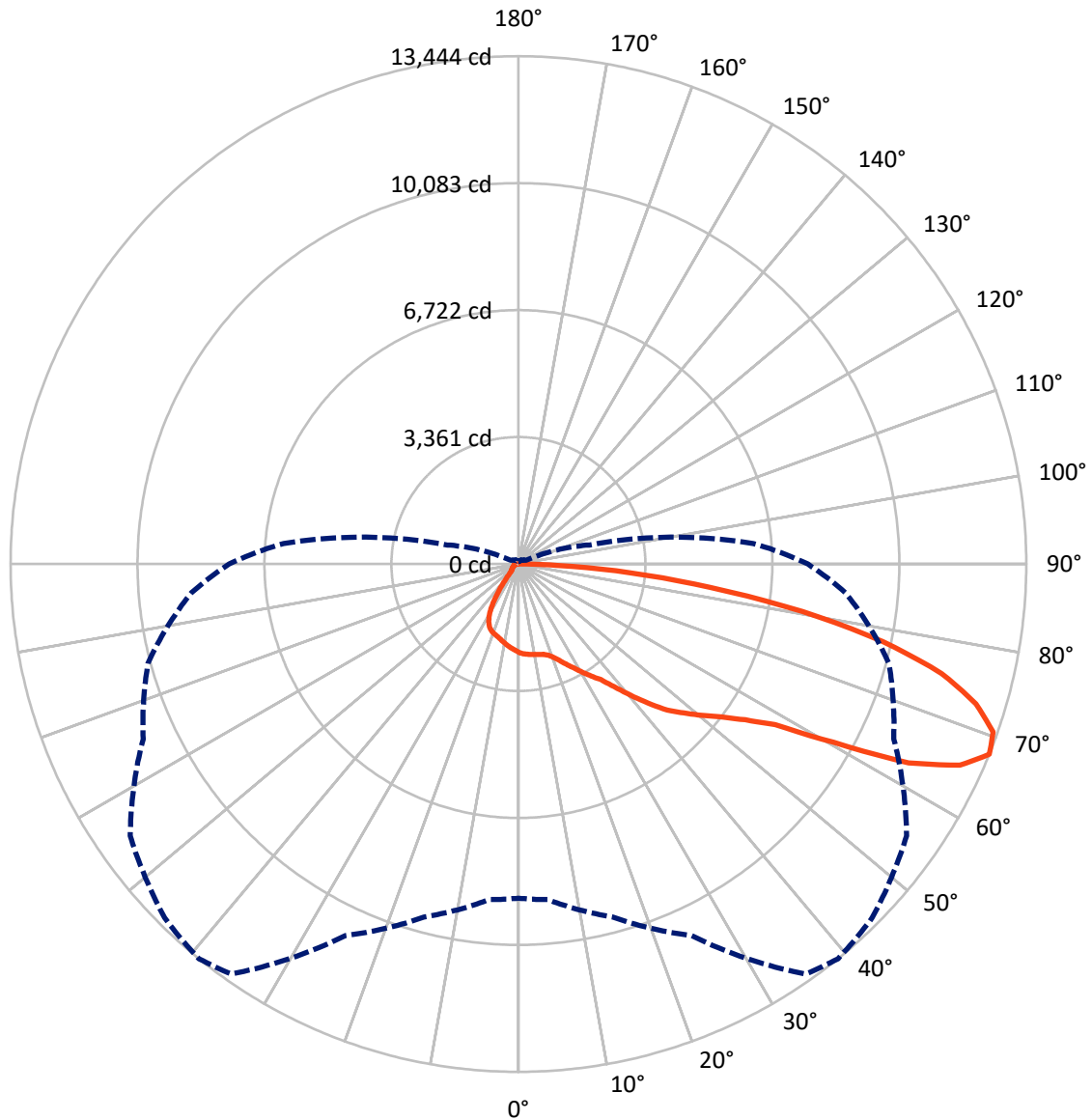
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3593.0	0.0	3593.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	18783.0	0.0	18783.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	22376.0	0.0	22376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.0
10°-20°	658.3	2.9
20°-30°	1166.4	5.2
30°-40°	1868.1	8.3
40°-50°	2996.9	13.4
50°-60°	4380.6	19.6
60°-70°	5837.4	26.1
70°-80°	4380.4	19.6
80°-90°	866.7	3.9
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°	22376.0	100.0
0°-180°	22376.0	100.0

Coefficient of Utilization



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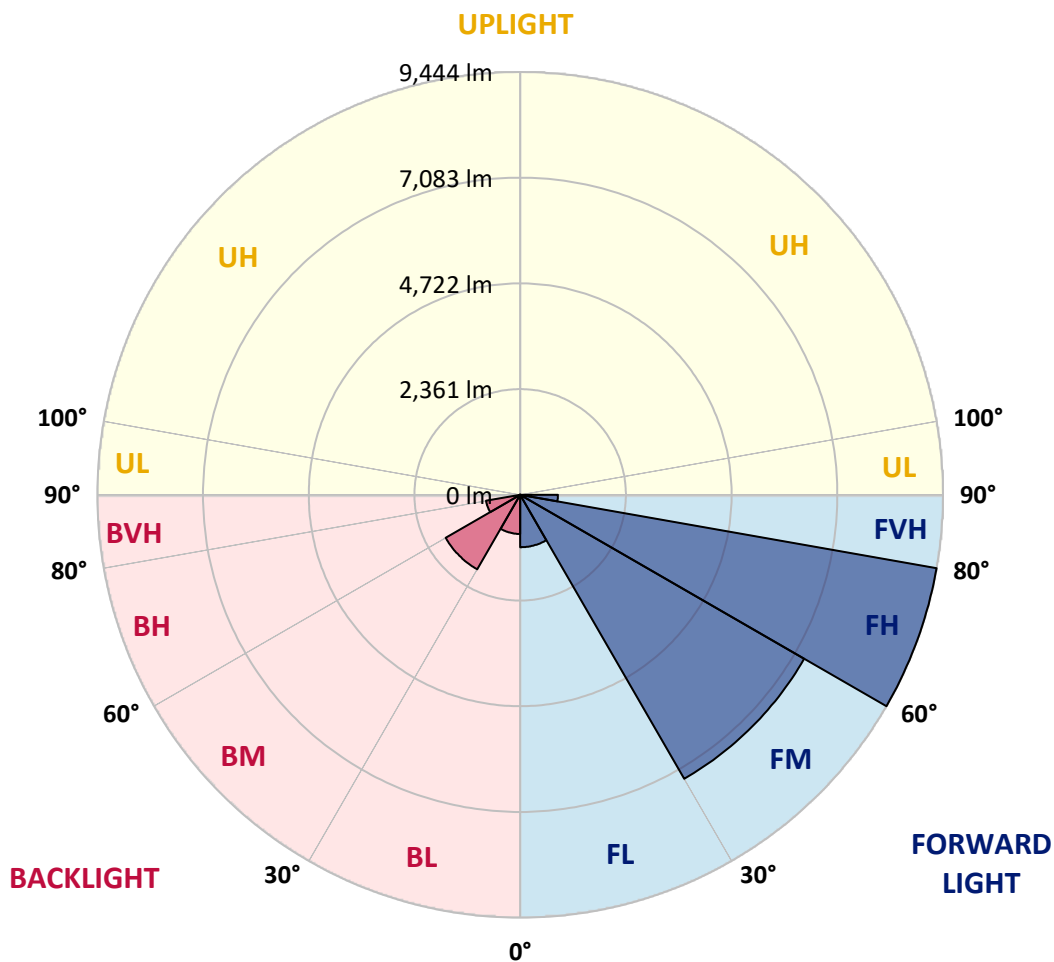
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.0	5.2			
FM (30°-60°)	7323.9	32.7			
FH (60°-80°)	9444.2	42.2			G4/12000
FVH (80°-90°)	844.0	3.8			G5
BL (0°-30°)	874.9	3.9	B2/1000		
BM (30°-60°)	1921.8	8.6	B2/2500		
BH (60°-80°)	773.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	22.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0
2.5°	2345.3	2376.7	2376.7	2367.7	2373.4	2377.9	2344.1	2353.1	2349.8	2348.6	2355.4
5°	2363.2	2398.1	2395.8	2384.6	2389.1	2398.1	2366.6	2380.1	2375.6	2364.4	2366.6
7.5°	2363.2	2392.5	2399.2	2386.9	2408.2	2419.5	2385.7	2398.1	2403.7	2395.8	2388.0
10°	2354.2	2380.1	2389.1	2386.9	2415.0	2432.9	2400.3	2435.2	2439.7	2439.7	2427.3
12.5°	2350.9	2380.1	2392.5	2402.6	2435.2	2454.3	2435.2	2468.9	2491.4	2490.3	2482.4
15°	2353.1	2385.7	2404.8	2421.7	2456.6	2480.2	2472.3	2524.0	2551.0	2558.9	2558.9
17.5°	2409.3	2448.7	2457.7	2475.7	2499.3	2535.3	2525.1	2591.5	2634.2	2647.7	2666.8
20°	2566.7	2597.1	2608.3	2599.3	2609.5	2631.9	2611.7	2675.8	2739.9	2775.9	2807.3
22.5°	2768.0	2790.5	2780.4	2771.4	2765.7	2771.4	2746.6	2789.3	2861.3	2913.0	2967.0
25°	2920.9	2970.4	2962.5	2937.8	2929.9	2936.6	2905.1	2958.0	3024.3	3078.3	3159.2
27.5°	3106.4	3136.7	3115.4	3106.4	3112.0	3110.9	3091.8	3142.4	3203.1	3270.5	3389.7
30°	3307.6	3333.5	3312.1	3303.1	3313.3	3320.0	3298.6	3387.5	3451.5	3524.6	3678.7
32.5°	3638.2	3700.0	3641.6	3524.6	3526.9	3537.0	3539.2	3658.4	3775.3	3832.7	4036.2
35°	4109.3	4158.7	4081.1	3939.5	3763.0	3756.2	3774.2	3951.9	4186.8	4447.7	4686.0
37.5°	4548.8	4620.8	4551.1	4385.8	4171.1	4119.4	4026.1	4237.4	4607.3	5168.3	5465.1
40°	5076.1	5130.1	4991.8	4847.9	4633.2	4560.1	4410.6	4545.5	5052.5	5920.5	6125.1
42.5°	5500.0	5532.6	5417.9	5267.3	5080.6	5025.5	4871.5	4883.9	5528.1	6579.3	6710.8
45°	5892.4	5927.2	5832.8	5704.6	5586.6	5520.2	5407.8	5468.5	6085.7	7274.1	7194.3
47.5°	6190.3	6225.2	6149.8	6058.8	5936.2	5891.2	5893.5	6111.6	6768.2	7829.5	7628.3
50°	6678.2	6664.8	6468.0	6369.1	6273.5	6297.1	6321.8	6632.1	7456.2	8306.2	8029.6
52.5°	7529.3	7463.0	7057.1	6798.5	6680.5	6721.0	6761.4	7174.1	8237.6	8741.3	8337.7
55°	8491.7	8424.3	8079.1	7526.0	7213.4	7278.6	7243.8	7710.3	8894.2	9159.5	8591.8
57.5°	9206.8	9318.1	9186.5	8885.2	8102.7	8017.3	7939.7	8252.2	9424.9	9577.8	8835.7
60°	9828.5	9983.6	10218.6	10136.5	9803.7	9581.1	8869.5	8885.2	9935.3	9867.8	8932.4
62.5°	10435.6	10526.7	10929.2	11018.0	11430.6	11590.2	10867.3	9703.7	10428.9	10069.1	8997.6
65°	9828.5	9945.4	10645.8	11292.3	12625.7	12839.3	12585.2	11185.5	10792.0	10188.3	8922.3
67.5°	8847.0	8917.8	9674.5	10850.5	13250.8	13444.2	13246.3	12545.9	10961.8	10152.3	8688.5
70°	7564.2	7675.5	8418.6	9994.9	13228.3	13331.7	13159.7	12710.0	10897.7	9945.4	8098.2
72.5°	6255.5	6318.5	6948.1	8520.9	12581.9	12668.4	12577.4	12458.2	10681.8	9368.7	6963.8
75°	4701.8	4715.2	5360.6	6728.8	11124.8	11576.7	11688.0	12024.2	9855.5	8030.8	5150.3
77.5°	3152.5	3286.3	3905.8	5142.5	9132.6	9855.5	10382.8	10627.8	8234.2	5993.6	2738.8
80°	1692.0	1725.8	2393.6	3649.4	6940.2	7631.6	8131.9	8136.4	5758.6	2969.2	611.6
82.5°	783.6	751.0	1205.2	2309.3	4807.4	5115.5	5450.5	4565.7	2305.9	507.1	156.3
85°	347.4	366.5	545.3	1125.4	2667.9	2977.1	2934.4	2021.5	404.7	137.2	95.6
87.5°	129.3	136.0	211.4	454.2	952.3	1038.8	934.3	389.0	52.8	48.3	29.2
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°	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0
2.5°	2347.5	2347.5	2345.3	2314.9	2308.2	2293.5	2281.2	2290.2	2280.0	2286.8	2280.0
5°	2357.6	2352.0	2338.5	2302.5	2285.7	2253.1	2228.3	2234.0	2220.5	2220.5	2219.3
7.5°	2381.2	2370.0	2346.4	2289.0	2257.6	2210.3	2172.1	2159.7	2146.3	2130.5	2128.3
10°	2419.5	2403.7	2372.2	2293.5	2232.8	2169.9	2103.5	2077.7	2043.9	2019.2	2014.7
12.5°	2472.3	2448.7	2406.0	2310.4	2230.6	2130.5	2041.7	1991.1	1950.6	1914.7	1906.8
15°	2548.7	2525.1	2474.5	2344.1	2231.7	2093.4	1976.5	1892.2	1822.5	1788.7	1789.9
17.5°	2660.1	2643.2	2565.6	2415.0	2253.1	2074.3	1922.5	1788.7	1680.8	1624.6	1616.7
20°	2802.8	2791.6	2697.2	2508.3	2302.5	2077.7	1864.1	1678.6	1520.0	1397.5	1370.5
22.5°	2969.2	2952.4	2836.6	2589.2	2340.8	2068.7	1800.0	1557.1	1318.8	1159.1	1127.7
25°	3154.7	3145.7	2964.7	2660.1	2345.3	2030.5	1707.8	1399.7	1100.7	929.8	902.8
27.5°	3392.0	3339.1	3080.5	2698.3	2335.1	1955.1	1576.2	1183.9	874.7	756.6	727.4
30°	3651.7	3544.9	3193.0	2727.5	2285.7	1834.8	1388.5	934.3	651.0	546.4	531.8
32.5°	3939.5	3779.8	3298.6	2725.3	2198.0	1649.3	1144.5	648.7	439.6	396.9	382.3
35°	4460.0	4189.1	3425.7	2688.2	2050.7	1429.0	808.4	422.7	326.0	300.2	296.8
37.5°	5182.9	4723.1	3596.6	2617.3	1860.7	1172.6	527.3	288.9	278.8	279.9	278.8
40°	5775.4	5319.0	3833.8	2510.5	1621.2	837.6	315.9	257.5	263.1	266.5	267.6
42.5°	6355.6	5804.7	4127.2	2376.7	1370.5	544.2	256.3	246.2	241.7	247.3	249.6
45°	6822.2	6228.5	4403.8	2220.5	1077.1	321.5	248.5	228.2	220.4	222.6	226.0
47.5°	7195.4	6565.8	4570.2	2038.3	787.0	242.8	241.7	212.5	201.2	199.0	197.9
50°	7547.3	6854.8	4677.0	1818.0	501.4	233.9	223.7	194.5	181.0	178.8	178.8
52.5°	7786.8	7043.6	4713.0	1557.1	299.1	228.2	211.4	179.9	161.9	165.3	167.5
55°	8020.6	7234.8	4638.8	1217.6	229.4	213.6	197.9	161.9	147.3	160.8	165.3
57.5°	8131.9	7262.9	4471.3	846.6	222.6	193.4	178.8	145.0	133.8	141.7	141.7
60°	8221.9	7243.8	4237.4	536.3	217.0	179.9	163.0	131.5	118.0	113.6	110.2
62.5°	8162.3	7167.3	3767.5	349.7	201.2	164.1	148.4	121.4	102.3	89.9	88.8
65°	8035.3	6897.5	3007.5	275.4	186.6	156.3	134.9	109.1	89.9	75.3	74.2
67.5°	7660.9	6240.9	1946.1	228.2	178.8	150.7	124.8	101.2	79.8	65.2	64.1
70°	6763.7	5041.3	597.0	204.6	185.5	145.0	122.5	92.2	70.8	57.3	55.1
72.5°	5348.2	3368.4	221.5	169.8	159.6	139.4	119.2	83.2	60.7	48.3	46.1
75°	3444.8	1100.7	187.8	131.5	136.0	132.7	110.2	76.5	51.7	39.3	38.2
77.5°	975.9	230.5	170.9	96.7	120.3	128.2	96.7	64.1	46.1	33.7	32.6
80°	204.6	164.1	156.3	68.6	89.9	83.2	65.2	49.5	43.8	29.2	29.2
82.5°	133.8	130.4	133.8	47.2	59.6	60.7	51.7	42.7	38.2	27.0	27.0
85°	94.4	119.2	64.1	33.7	28.1	25.9	30.4	37.1	33.7	22.5	22.5
87.5°	32.6	19.1	13.5	13.5	12.4	12.4	14.6	16.9	18.0	18.0	16.9
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)