

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: P399285

Luminaire Tested: **ARCH-L-PA3-120-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19651 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

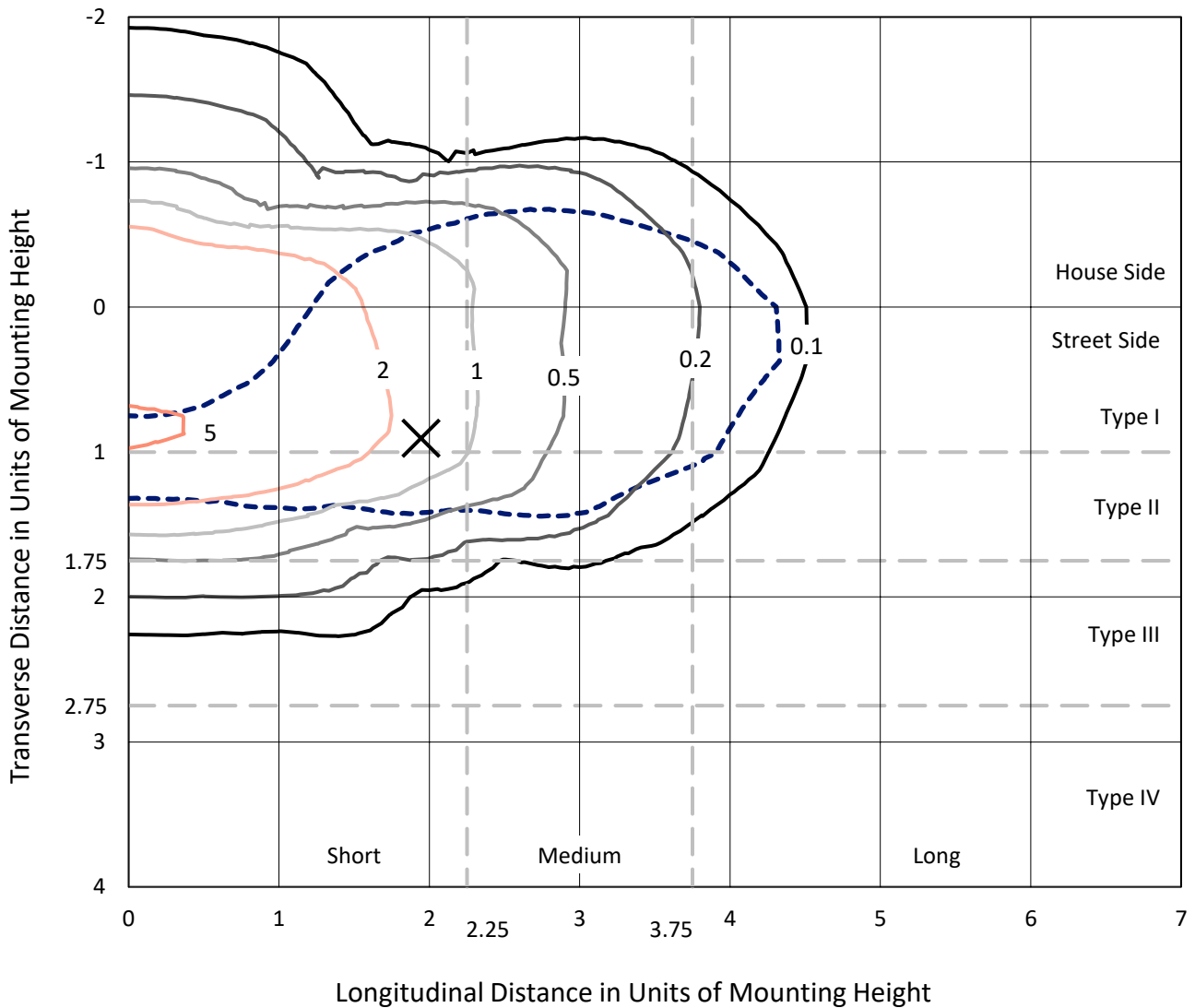
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

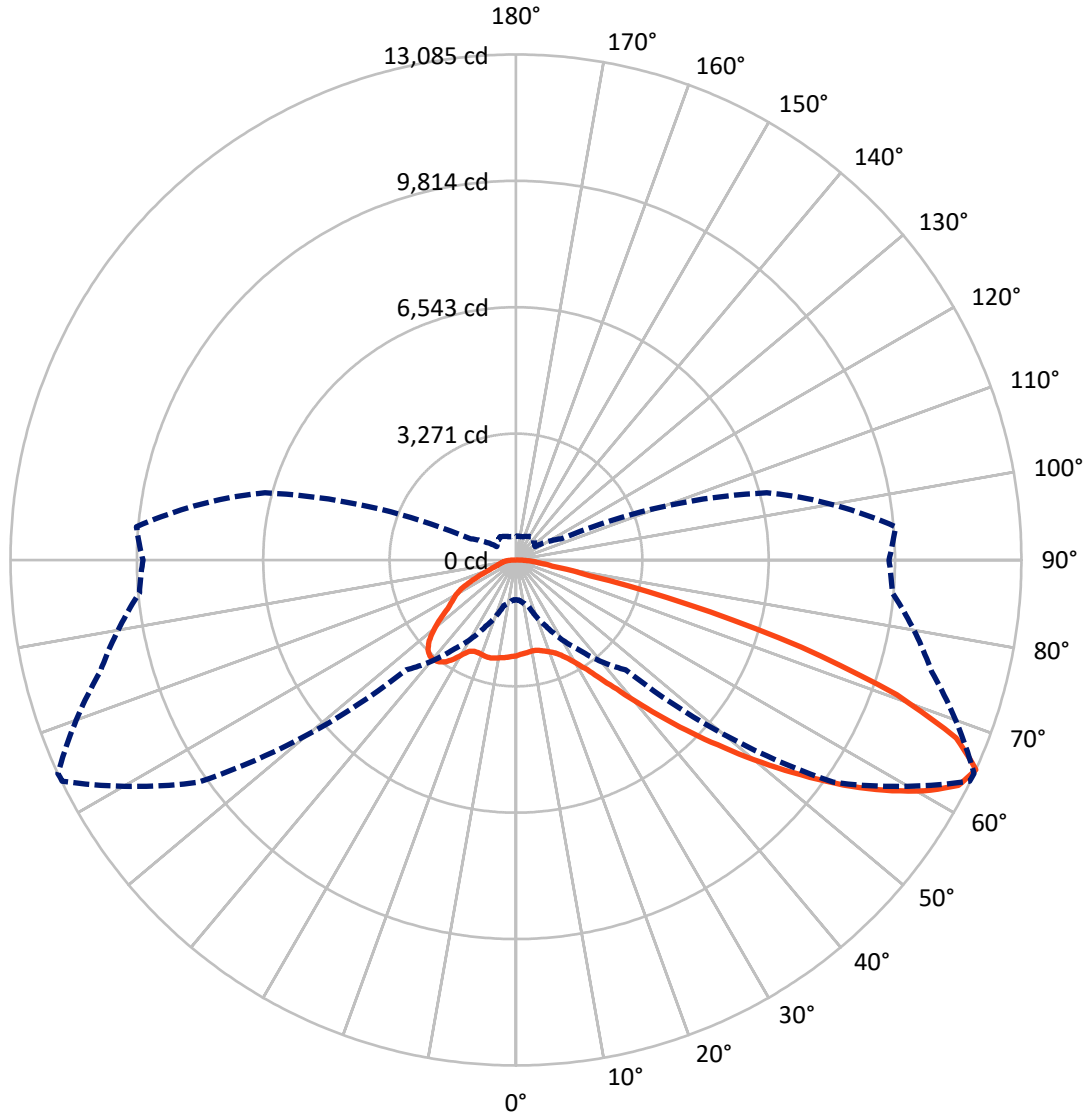
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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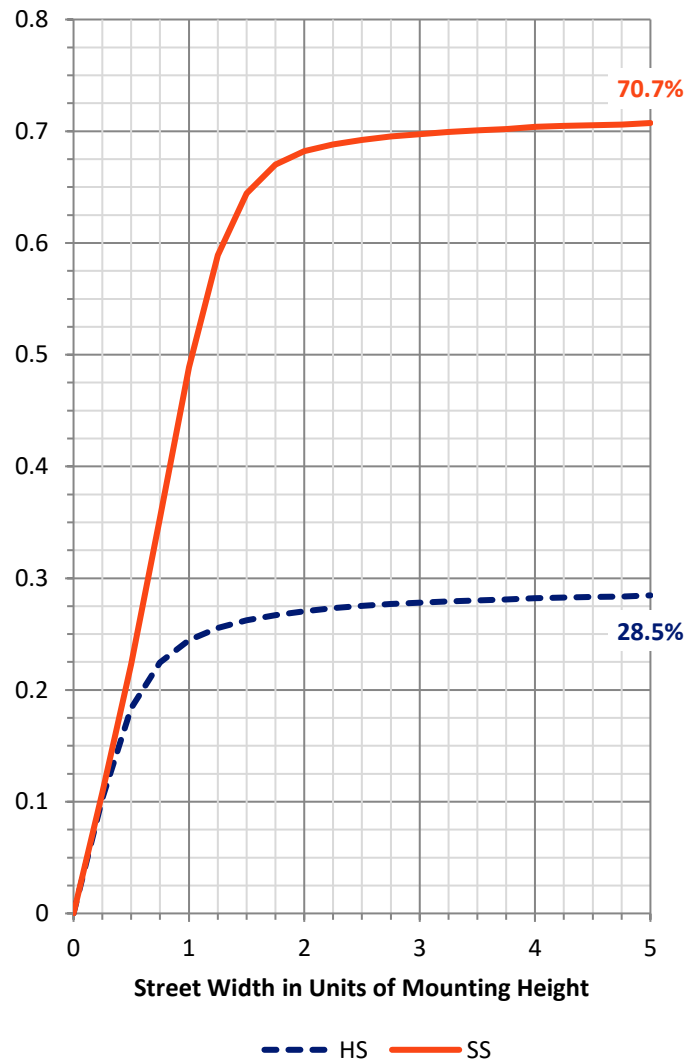
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5681.4	0.0	5681.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	13969.6	0.0	13969.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	19651.0	0.0	19651.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	1.2
10°-20°	706.3	3.6
20°-30°	1254.6	6.4
30°-40°	2122.4	10.8
40°-50°	3694.8	18.8
50°-60°	4774.8	24.3
60°-70°	4178.2	21.3
70°-80°	2272.7	11.6
80°-90°	410.6	2.1
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°	19651.0	100.0
0°-180°	19651.0	100.0



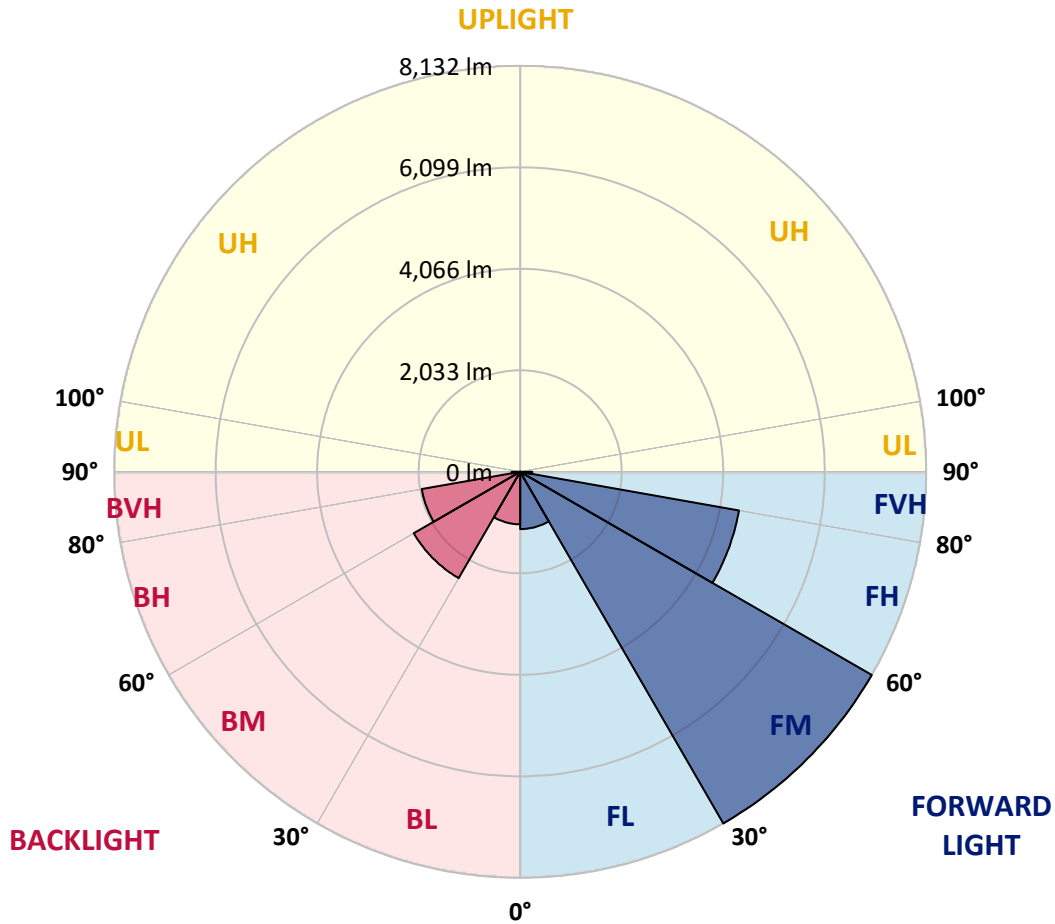
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.6	5.8			
FM (30°-60°)	8132.1	41.4			
FH (60°-80°)	4449.3	22.6			G2/5000
FVH (80°-90°)	241.6	1.2			G3/500
BL (0°-30°)	1050.9	5.3	B3/2500		
BM (30°-60°)	2459.9	12.5	B2/2500		
BH (60°-80°)	2001.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	169.0	0.9			G2/225
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°	64°	65°	75°	85°
0°	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1
2.5°	2439.1	2436.5	2431.4	2436.5	2439.1	2444.3	2441.7	2446.9	2444.3	2452.1	2465.0
5°	2377.0	2371.9	2369.3	2382.2	2390.0	2402.9	2408.1	2426.2	2423.6	2436.5	2457.2
7.5°	2307.2	2307.2	2304.6	2320.1	2330.5	2353.8	2371.9	2402.9	2405.5	2428.8	2452.1
10°	2252.9	2255.5	2252.9	2265.8	2281.3	2309.8	2340.8	2384.8	2387.4	2421.0	2444.3
12.5°	2232.2	2232.2	2232.2	2250.3	2271.0	2309.8	2346.0	2392.6	2397.7	2433.9	2454.6
15°	2260.6	2263.2	2258.1	2276.2	2299.4	2346.0	2379.6	2428.8	2433.9	2467.6	2480.5
17.5°	2361.5	2371.9	2358.9	2369.3	2364.1	2400.3	2431.4	2480.5	2483.1	2511.5	2516.7
20°	2560.7	2571.0	2550.3	2537.4	2490.9	2488.3	2501.2	2540.0	2540.0	2558.1	2545.2
22.5°	2868.5	2878.8	2842.6	2793.5	2682.3	2627.9	2599.5	2617.6	2615.0	2622.8	2589.1
25°	3277.2	3274.6	3230.6	3140.1	2961.6	2829.7	2759.9	2731.4	2731.4	2715.9	2674.5
27.5°	3784.1	3745.3	3667.7	3559.1	3310.8	3127.1	2977.1	2904.7	2891.8	2845.2	2767.6
30°	4324.7	4296.3	4185.0	4027.3	3740.2	3504.8	3256.5	3111.6	3103.9	3003.0	2886.6
32.5°	4961.0	4914.5	4790.3	4601.5	4257.5	3926.4	3616.0	3396.1	3383.2	3222.8	3062.5
35°	5778.4	5739.6	5499.0	5310.2	4867.9	4433.4	4066.1	3773.8	3763.4	3566.9	3362.5
37.5°	6758.7	6657.8	6425.0	6070.6	5605.1	5090.3	4624.8	4257.5	4244.5	4027.3	3768.6
40°	7632.9	7542.4	7335.5	7009.6	6510.4	5938.7	5307.6	4862.7	4849.8	4586.0	4260.1
42.5°	8279.6	8217.5	8083.0	7894.2	7537.2	7190.6	6179.3	5594.7	5571.4	5230.0	4823.9
45°	8654.6	8605.5	8527.9	8574.4	8569.3	8504.6	7219.1	6466.4	6391.4	5949.1	5452.5
47.5°	8564.1	8520.1	8551.2	8913.3	9412.5	9787.5	8429.6	7358.7	7257.9	6681.1	6122.4
50°	7909.7	7927.8	8090.7	8783.9	9903.9	10736.8	9772.0	8375.3	8240.8	7418.2	6758.7
52.5°	6717.3	6761.3	7157.0	8127.0	9849.6	11352.4	10985.1	9425.4	9246.9	8137.3	7338.1
55°	5336.1	5447.3	5959.4	6978.5	9140.9	11396.4	11900.7	10480.7	10284.1	8812.4	7842.4
57.5°	3947.1	4112.6	4704.9	5641.3	7782.9	10700.6	12358.6	11489.5	11251.5	9482.3	8375.3
60°	2503.8	2604.7	3287.5	4392.0	5956.8	8998.6	12299.1	12348.2	12141.3	10149.6	8931.4
62.5°	1598.5	1647.6	1991.6	3132.3	4164.4	6663.0	11649.8	12997.4	12857.8	10757.5	9459.0
65°	1026.9	1047.6	1223.4	1927.0	2834.9	4022.1	10033.2	13067.3	13085.4	11137.7	9784.9
67.5°	835.5	845.8	910.5	1189.8	2004.6	2221.9	6988.9	12074.0	12293.9	11039.4	9673.7
70°	760.4	773.4	840.6	949.3	1551.9	1533.8	3383.2	10103.1	10462.6	10473.0	9179.7
72.5°	641.5	659.6	750.1	897.5	1200.2	1210.5	1433.0	7195.8	7726.0	9360.7	8437.3
75°	535.4	545.8	623.4	791.5	1016.5	967.4	1006.2	3815.2	4580.8	7506.2	7648.4
77.5°	434.5	444.9	501.8	631.1	902.7	752.7	791.5	1580.4	1952.8	5095.5	6251.7
80°	310.4	320.7	385.4	491.4	682.9	677.7	587.1	871.7	946.7	2754.7	4060.9
82.5°	222.4	230.2	292.3	351.8	473.3	680.3	442.3	592.3	620.8	1220.9	1637.3
85°	150.0	150.0	201.8	232.8	305.2	429.4	356.9	400.9	419.0	579.4	442.3
87.5°	64.7	64.7	108.6	119.0	160.4	199.2	266.4	201.8	206.9	313.0	181.1
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°	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1	2483.1
2.5°	2472.7	2475.3	2480.5	2496.0	2506.4	2521.9	2529.7	2540.0	2540.0	2534.8	2537.4
5°	2467.6	2475.3	2493.4	2521.9	2540.0	2568.4	2589.1	2604.7	2609.8	2604.7	2607.2
7.5°	2465.0	2477.9	2509.0	2550.3	2576.2	2612.4	2640.9	2659.0	2671.9	2666.7	2669.3
10°	2457.2	2477.9	2516.7	2568.4	2607.2	2643.5	2669.3	2677.1	2684.8	2679.7	2677.1
12.5°	2467.6	2490.9	2532.2	2594.3	2638.3	2666.7	2674.5	2661.6	2643.5	2633.1	2630.5
15°	2488.3	2511.5	2552.9	2617.6	2656.4	2666.7	2648.6	2607.2	2565.9	2542.6	2540.0
17.5°	2516.7	2532.2	2565.9	2622.8	2653.8	2640.9	2604.7	2555.5	2524.5	2506.4	2509.0
20°	2534.8	2534.8	2560.7	2604.7	2630.5	2620.2	2576.2	2521.9	2472.7	2449.5	2441.7
22.5°	2560.7	2547.8	2550.3	2589.1	2625.4	2609.8	2516.7	2421.0	2351.2	2325.3	2322.7
25°	2630.5	2594.3	2571.0	2594.3	2679.7	2552.9	2366.7	2255.5	2190.8	2167.5	2170.1
27.5°	2715.9	2666.7	2617.6	2656.4	2723.6	2423.6	2175.3	2048.6	2009.8	1991.6	1999.4
30°	2801.2	2736.6	2671.9	2811.6	2692.6	2221.9	1929.6	1805.4	1771.8	1758.9	1769.2
32.5°	2959.0	2853.0	2775.4	3018.5	2596.9	1991.6	1663.2	1549.3	1518.3	1502.8	1497.6
35°	3222.8	3088.3	3010.8	3199.6	2462.4	1735.6	1420.0	1339.8	1306.2	1272.6	1267.4
37.5°	3603.1	3440.1	3370.3	3303.0	2273.6	1482.1	1233.8	1179.5	1130.3	1078.6	1076.0
40°	4058.3	3846.2	3794.5	3349.6	2012.3	1244.1	1104.5	1052.7	990.7	941.5	944.1
42.5°	4583.4	4311.8	4200.6	3336.7	1689.0	1117.4	1011.3	954.4	900.1	856.1	853.6
45°	5144.7	4836.9	4580.8	3246.1	1368.3	1029.4	954.4	887.2	832.9	783.7	778.6
47.5°	5765.4	5421.4	4932.6	3070.2	1130.3	967.4	920.8	825.1	776.0	744.9	744.9
50°	6391.4	5980.1	5255.9	2803.8	990.7	920.8	871.7	791.5	752.7	726.8	726.8
52.5°	6926.8	6562.1	5522.3	2485.7	902.7	882.0	838.0	776.0	734.6	711.3	708.7
55°	7446.7	7102.7	5760.3	2170.1	830.3	830.3	830.3	763.0	716.5	695.8	693.2
57.5°	7964.0	7671.7	6008.6	1963.2	765.6	786.3	814.8	747.5	701.0	682.9	680.3
60°	8548.6	8354.6	6295.7	1818.3	708.7	739.8	794.1	729.4	675.1	659.6	657.0
62.5°	9169.3	9169.3	6556.9	1614.0	657.0	701.0	763.0	706.1	651.8	638.9	636.3
65°	9655.6	9865.1	6725.0	1308.8	605.3	662.2	726.8	675.1	620.8	618.2	613.0
67.5°	9712.5	10041.0	6619.0	988.1	558.7	620.8	690.6	641.5	589.7	589.7	582.0
70°	9303.8	9637.5	6287.9	739.8	525.1	579.4	644.1	600.1	550.9	556.1	543.2
72.5°	8621.0	8703.8	5465.4	584.6	486.3	535.4	587.1	553.5	509.6	509.6	491.4
75°	7720.9	7260.5	3970.4	488.9	439.7	483.7	530.2	501.8	463.0	450.1	439.7
77.5°	6145.7	5261.1	2307.2	421.6	400.9	434.5	465.6	444.9	411.3	382.8	382.8
80°	3745.3	3083.2	1019.1	364.7	354.4	380.2	400.9	377.6	349.2	320.7	313.0
82.5°	1425.2	1189.8	494.0	313.0	310.4	325.9	341.4	318.1	297.5	284.5	245.7
85°	390.6	359.5	338.8	261.2	256.1	253.5	271.6	261.2	232.8	191.4	170.7
87.5°	147.4	168.1	183.6	160.4	170.7	157.8	181.1	165.5	147.4	95.7	85.4
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)