

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: P399294

Luminaire Tested: **ARCH-L-PA3-120-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399294
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-PA3-120-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 19650 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

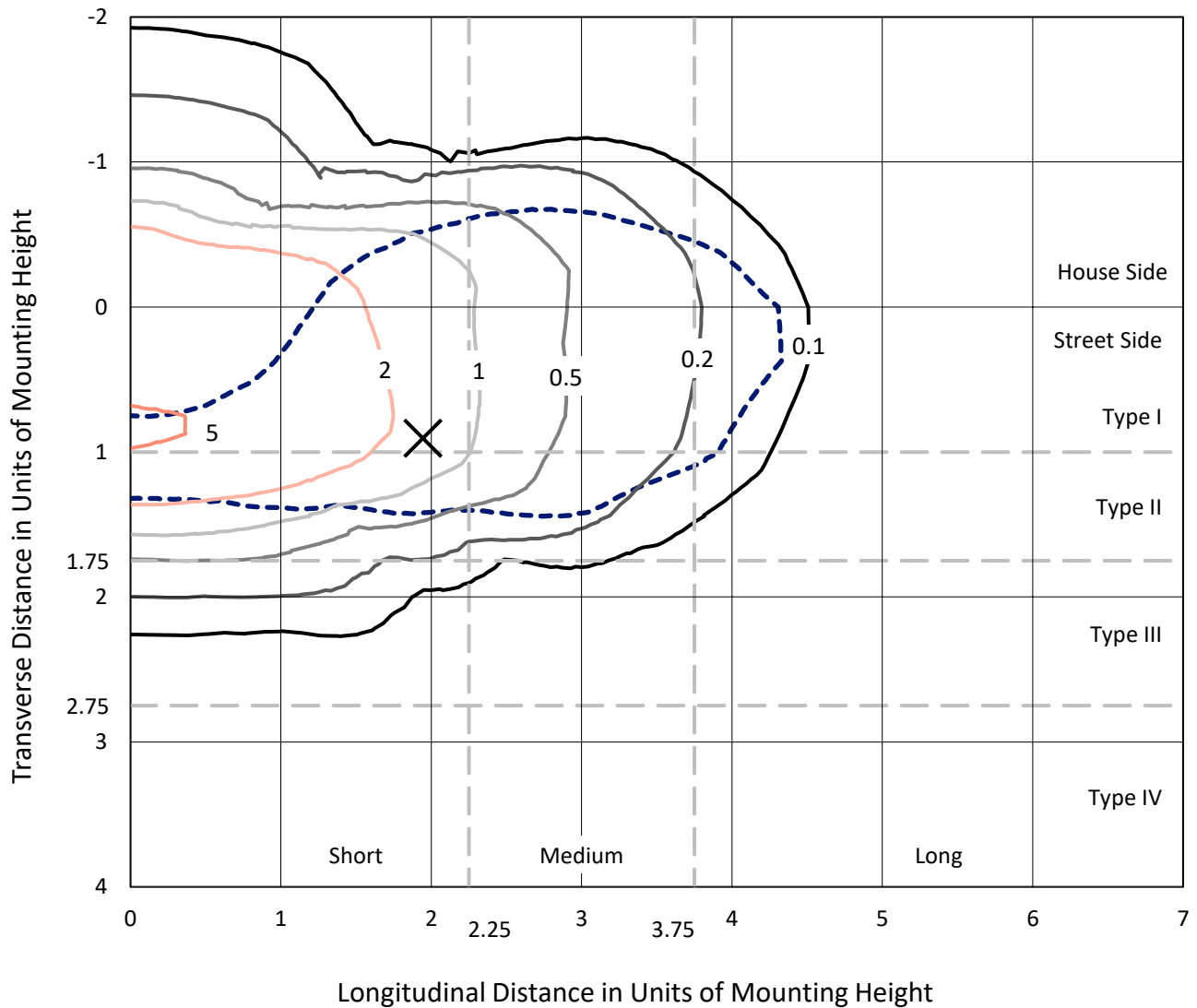
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

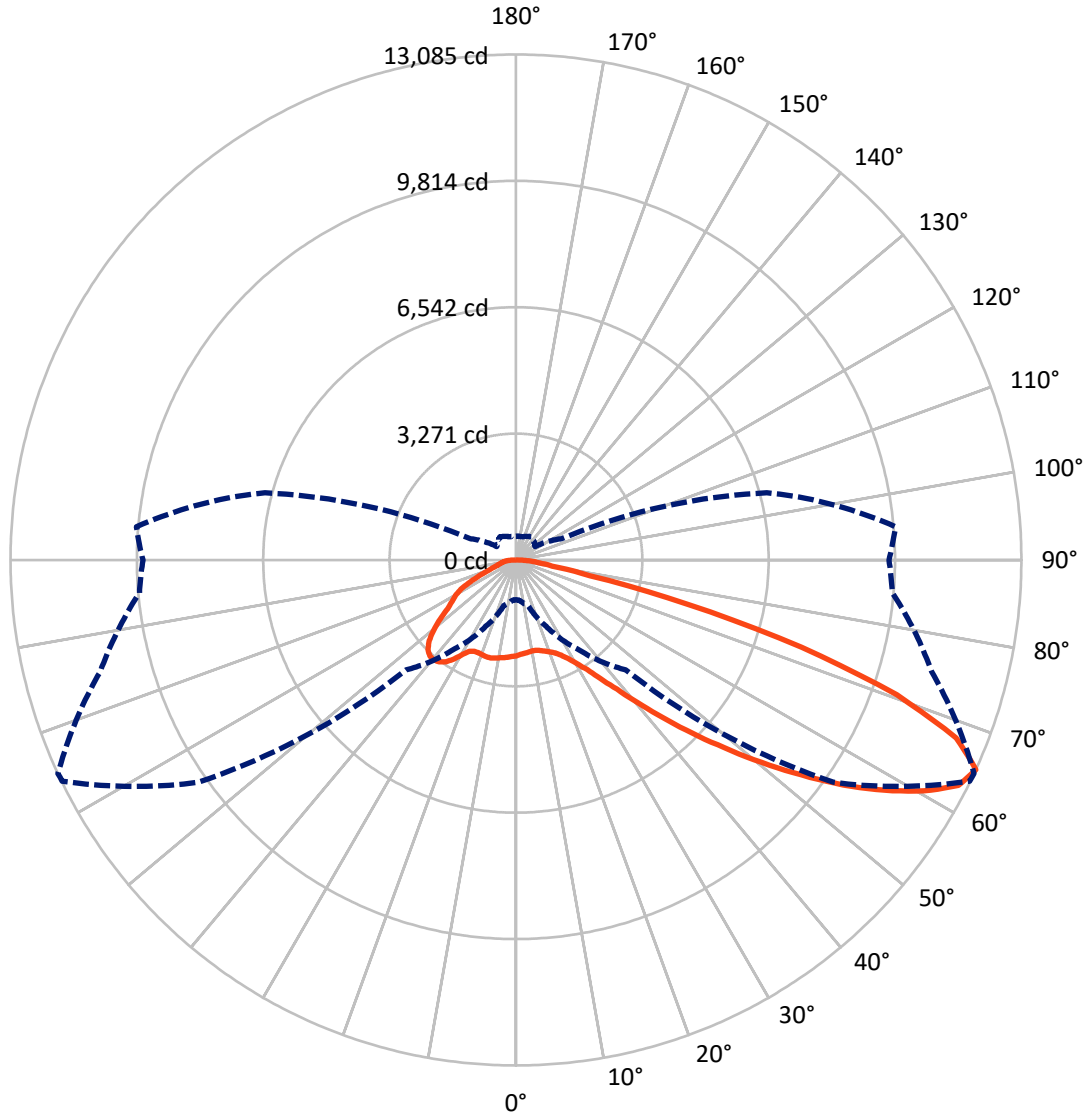
✕ Max cd
 - - - 1/2 Max cd



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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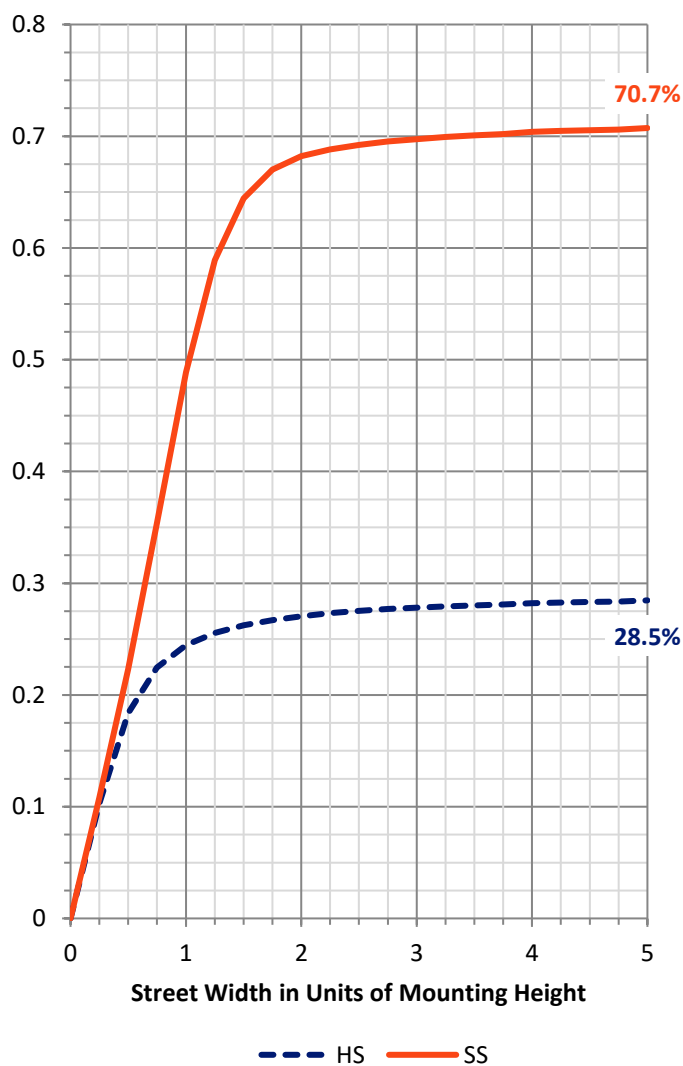
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5681.1	0.0	5681.1
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	13968.9	0.0	13968.9
	% Fixture	71.1	0.0	71.1
Total	Lumens	19650.0	0.0	19650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.2
10°-20°	706.3	3.6
20°-30°	1254.5	6.4
30°-40°	2122.3	10.8
40°-50°	3694.6	18.8
50°-60°	4774.6	24.3
60°-70°	4178.0	21.3
70°-80°	2272.5	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°	19650.0	100.0
0°-180°	19650.0	100.0

Coefficient of Utilization



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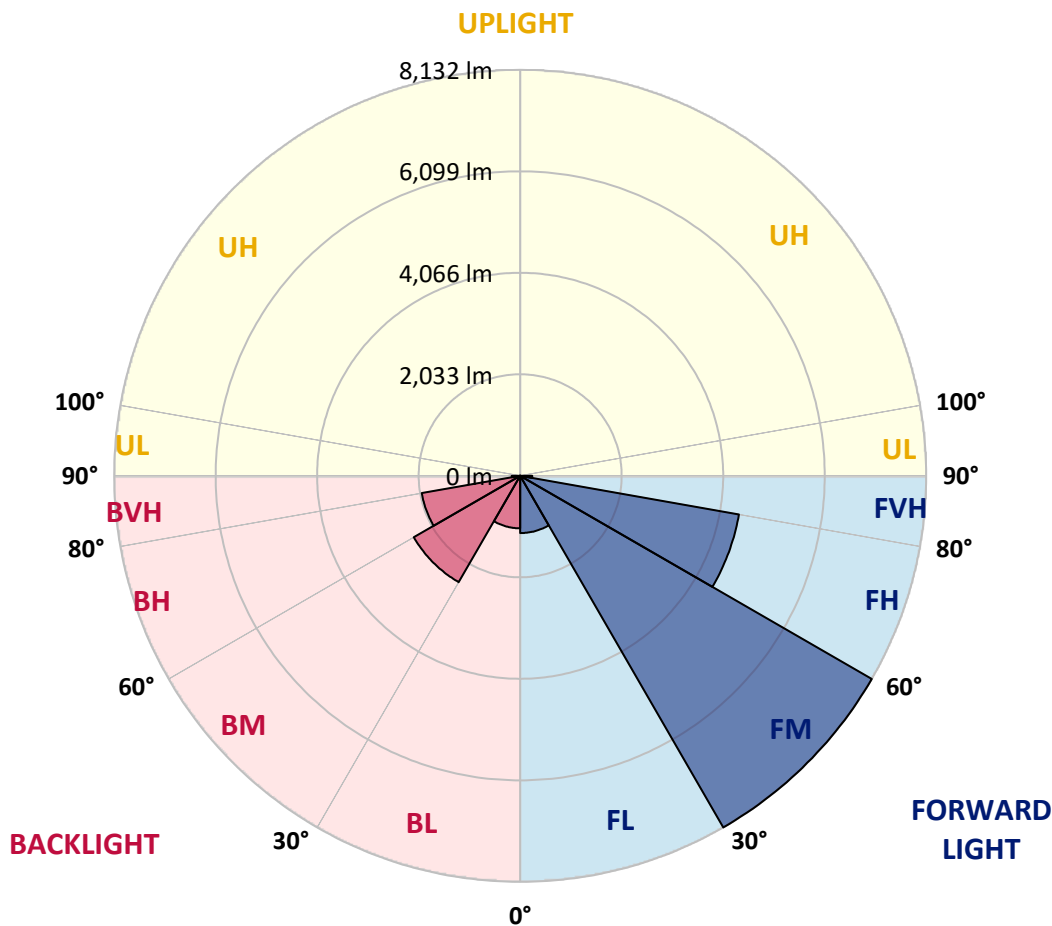
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.5	5.8			
FM (30°-60°)	8131.7	41.4			
FH (60°-80°)	4449.0	22.6			G2/5000
FVH (80°-90°)	241.6	1.2			G3/500
BL (0°-30°)	1050.8	5.3	B3/2500		
BM (30°-60°)	2459.8	12.5	B2/2500		
BH (60°-80°)	2001.5	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°	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0
2.5°	2439.0	2436.4	2431.2	2436.4	2439.0	2444.2	2441.6	2446.8	2444.2	2451.9	2464.9
5°	2376.9	2371.8	2369.2	2382.1	2389.9	2402.8	2408.0	2426.1	2423.5	2436.4	2457.1
7.5°	2307.1	2307.1	2304.5	2320.0	2330.4	2353.6	2371.8	2402.8	2405.4	2428.7	2451.9
10°	2252.8	2255.4	2252.8	2265.7	2281.2	2309.7	2340.7	2384.7	2387.3	2420.9	2444.2
12.5°	2232.1	2232.1	2232.1	2250.2	2270.9	2309.7	2345.9	2392.4	2397.6	2433.8	2454.5
15°	2260.5	2263.1	2257.9	2276.1	2299.3	2345.9	2379.5	2428.7	2433.8	2467.4	2480.4
17.5°	2361.4	2371.8	2358.8	2369.2	2364.0	2400.2	2431.2	2480.4	2483.0	2511.4	2516.6
20°	2560.6	2570.9	2550.2	2537.3	2490.7	2488.1	2501.1	2539.9	2539.9	2558.0	2545.0
22.5°	2868.3	2878.7	2842.5	2793.3	2682.1	2627.8	2599.4	2617.5	2614.9	2622.6	2589.0
25°	3277.0	3274.4	3230.4	3139.9	2961.5	2829.5	2759.7	2731.3	2731.3	2715.7	2674.4
27.5°	3783.9	3745.1	3667.5	3558.9	3310.6	3127.0	2977.0	2904.6	2891.6	2845.1	2767.5
30°	4324.5	4296.0	4184.8	4027.1	3740.0	3504.6	3256.3	3111.5	3103.7	3002.8	2886.4
32.5°	4960.8	4914.2	4790.1	4601.2	4257.3	3926.2	3615.8	3396.0	3383.0	3222.7	3062.3
35°	5778.1	5739.3	5498.7	5309.9	4867.6	4433.1	4065.9	3773.6	3763.2	3566.7	3362.4
37.5°	6758.3	6657.5	6424.7	6070.3	5604.8	5090.1	4624.5	4257.3	4244.3	4027.1	3768.4
40°	7632.5	7542.0	7335.1	7009.2	6510.0	5938.4	5307.3	4862.5	4849.5	4585.7	4259.8
42.5°	8279.1	8217.1	8082.6	7893.8	7536.8	7190.3	6179.0	5594.4	5571.2	5229.7	4823.7
45°	8654.2	8605.0	8527.4	8574.0	8568.8	8504.2	7218.7	6466.1	6391.1	5948.8	5452.2
47.5°	8563.6	8519.7	8550.7	8912.8	9412.0	9787.0	8429.2	7358.4	7257.5	6680.7	6122.1
50°	7909.3	7927.4	8090.3	8783.5	9903.4	10736.2	9771.5	8374.8	8240.3	7417.9	6758.3
52.5°	6716.9	6760.9	7156.6	8126.5	9849.1	11351.8	10984.5	9424.9	9246.5	8136.9	7337.7
55°	5335.8	5447.0	5959.1	6978.2	9140.4	11395.8	11900.1	10480.2	10283.6	8811.9	7842.0
57.5°	3946.9	4112.4	4704.7	5641.0	7782.5	10700.0	12357.9	11488.9	11250.9	9481.8	8374.8
60°	2503.7	2604.5	3287.3	4391.7	5956.5	8998.2	12298.4	12347.6	12140.7	10149.1	8930.9
62.5°	1598.4	1647.6	1991.5	3132.2	4164.1	6662.6	11649.3	12996.8	12857.1	10756.9	9458.6
65°	1026.8	1047.5	1223.4	1926.9	2834.7	4021.9	10032.7	13066.6	13084.7	11137.1	9784.4
67.5°	835.4	845.8	910.4	1189.8	2004.5	2221.7	6988.5	12073.4	12293.3	11038.9	9673.2
70°	760.4	773.3	840.6	949.2	1551.9	1533.7	3383.0	10102.6	10462.1	10472.4	9179.2
72.5°	641.4	659.5	750.1	897.5	1200.1	1210.4	1432.9	7195.4	7725.6	9360.3	8436.9
75°	535.4	545.7	623.3	791.4	1016.5	967.3	1006.1	3815.0	4580.6	7505.8	7648.1
77.5°	434.5	444.9	501.8	631.1	902.7	752.6	791.4	1580.3	1952.7	5095.3	6251.4
80°	310.4	320.7	385.4	491.4	682.8	677.6	587.1	871.6	946.6	2754.5	4060.7
82.5°	222.4	230.2	292.3	351.8	473.3	680.2	442.3	592.3	620.7	1220.8	1637.2
85°	150.0	150.0	201.7	232.8	305.2	429.3	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	201.7	206.9	313.0	181.0
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°	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0	2483.0
2.5°	2472.6	2475.2	2480.4	2495.9	2506.2	2521.8	2529.5	2539.9	2539.9	2534.7	2537.3
5°	2467.4	2475.2	2493.3	2521.8	2539.9	2568.3	2589.0	2604.5	2609.7	2604.5	2607.1
7.5°	2464.9	2477.8	2508.8	2550.2	2576.1	2612.3	2640.7	2658.8	2671.8	2666.6	2669.2
10°	2457.1	2477.8	2516.6	2568.3	2607.1	2643.3	2669.2	2676.9	2684.7	2679.5	2676.9
12.5°	2467.4	2490.7	2532.1	2594.2	2638.2	2666.6	2674.4	2661.4	2643.3	2633.0	2630.4
15°	2488.1	2511.4	2552.8	2617.5	2656.3	2666.6	2648.5	2607.1	2565.7	2542.5	2539.9
17.5°	2516.6	2532.1	2565.7	2622.6	2653.7	2640.7	2604.5	2555.4	2524.3	2506.2	2508.8
20°	2534.7	2534.7	2560.6	2604.5	2630.4	2620.0	2576.1	2521.8	2472.6	2449.3	2441.6
22.5°	2560.6	2547.6	2550.2	2589.0	2625.2	2609.7	2516.6	2420.9	2351.1	2325.2	2322.6
25°	2630.4	2594.2	2570.9	2594.2	2679.5	2552.8	2366.6	2255.4	2190.7	2167.4	2170.0
27.5°	2715.7	2666.6	2617.5	2656.3	2723.5	2423.5	2175.2	2048.4	2009.7	1991.5	1999.3
30°	2801.1	2736.4	2671.8	2811.4	2692.5	2221.7	1929.5	1805.3	1771.7	1758.8	1769.1
32.5°	2958.9	2852.8	2775.2	3018.4	2596.8	1991.5	1663.1	1549.3	1518.2	1502.7	1497.5
35°	3222.7	3088.2	3010.6	3199.4	2462.3	1735.5	1419.9	1339.8	1306.1	1272.5	1267.3
37.5°	3602.9	3439.9	3370.1	3302.9	2273.5	1482.0	1233.7	1179.4	1130.3	1078.5	1076.0
40°	4058.1	3846.0	3794.3	3349.4	2012.2	1244.1	1104.4	1052.7	990.6	941.5	944.0
42.5°	4583.1	4311.6	4200.4	3336.5	1688.9	1117.3	1011.3	954.4	900.1	856.1	853.5
45°	5144.4	4836.6	4580.6	3246.0	1368.2	1029.4	954.4	887.1	832.8	783.7	778.5
47.5°	5765.1	5421.1	4932.3	3070.1	1130.3	967.3	920.8	825.1	775.9	744.9	744.9
50°	6391.1	5979.8	5255.6	2803.7	990.6	920.8	871.6	791.4	752.6	726.8	726.8
52.5°	6926.4	6561.8	5522.0	2485.6	902.7	882.0	838.0	775.9	734.5	711.3	708.7
55°	7446.3	7102.3	5760.0	2170.0	830.2	830.2	830.2	763.0	716.4	695.7	693.2
57.5°	7963.6	7671.3	6008.3	1963.1	765.6	786.3	814.7	747.5	700.9	682.8	680.2
60°	8548.1	8354.1	6295.4	1818.3	708.7	739.7	794.0	729.4	675.1	659.5	657.0
62.5°	9168.9	9168.9	6556.6	1613.9	657.0	700.9	763.0	706.1	651.8	638.8	636.3
65°	9655.1	9864.6	6724.7	1308.7	605.2	662.1	726.8	675.1	620.7	618.2	613.0
67.5°	9712.0	10040.5	6618.7	988.0	558.7	620.7	690.6	641.4	589.7	589.7	581.9
70°	9303.4	9637.0	6287.6	739.7	525.0	579.4	644.0	600.1	550.9	556.1	543.1
72.5°	8620.6	8703.3	5465.1	584.5	486.2	535.4	587.1	553.5	509.5	509.5	491.4
75°	7720.5	7260.1	3970.2	488.8	439.7	483.7	530.2	501.8	463.0	450.0	439.7
77.5°	6145.3	5260.8	2307.1	421.6	400.9	434.5	465.6	444.9	411.2	382.8	382.8
80°	3745.1	3083.0	1019.1	364.7	354.3	380.2	400.9	377.6	349.2	320.7	313.0
82.5°	1425.1	1189.8	494.0	313.0	310.4	325.9	341.4	318.1	297.4	284.5	245.7
85°	390.5	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	181.0	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)