

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: P399924

Luminaire Tested: **ARCH-L-PA3-210-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399924
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-PA3-210-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27151 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

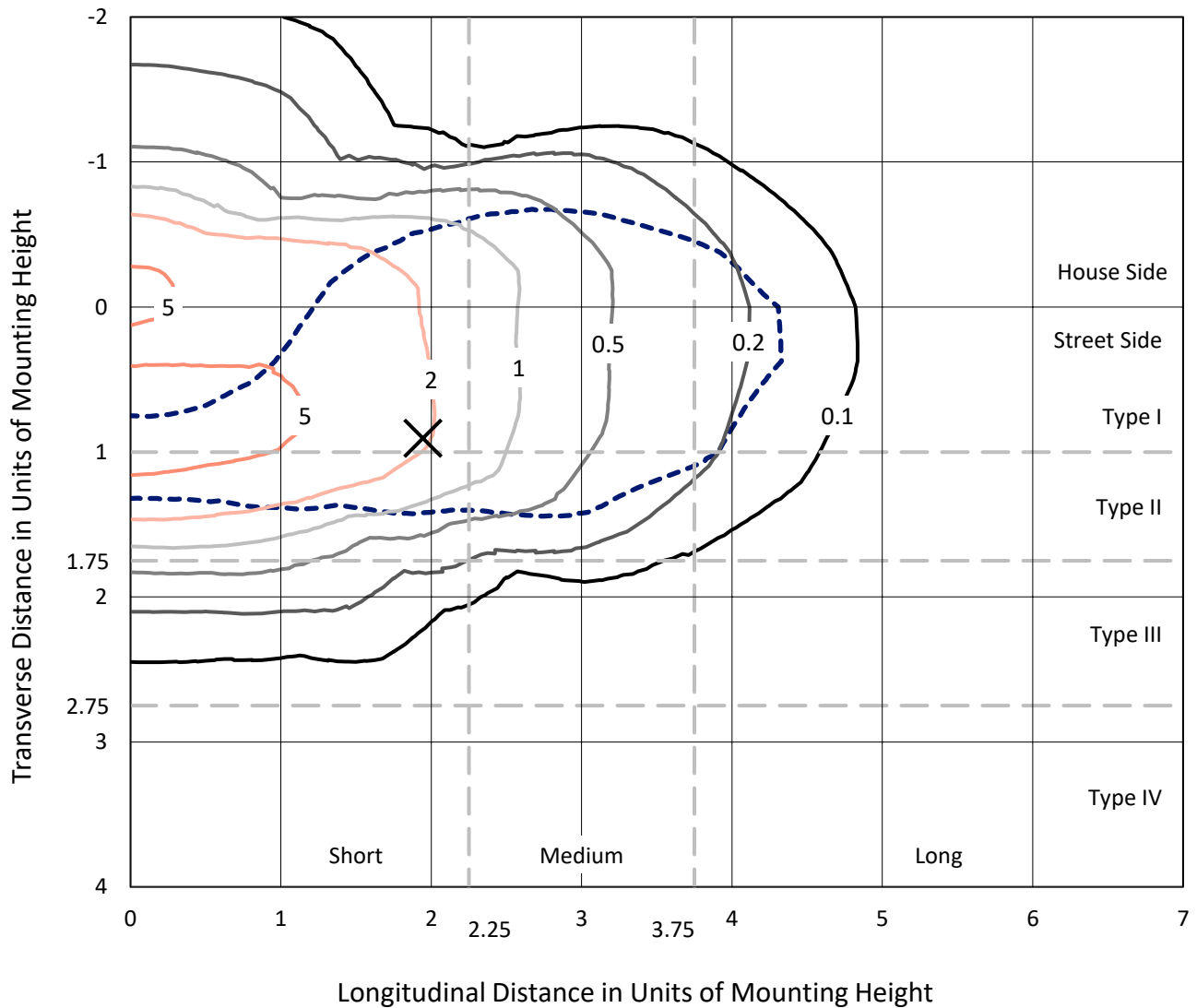
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

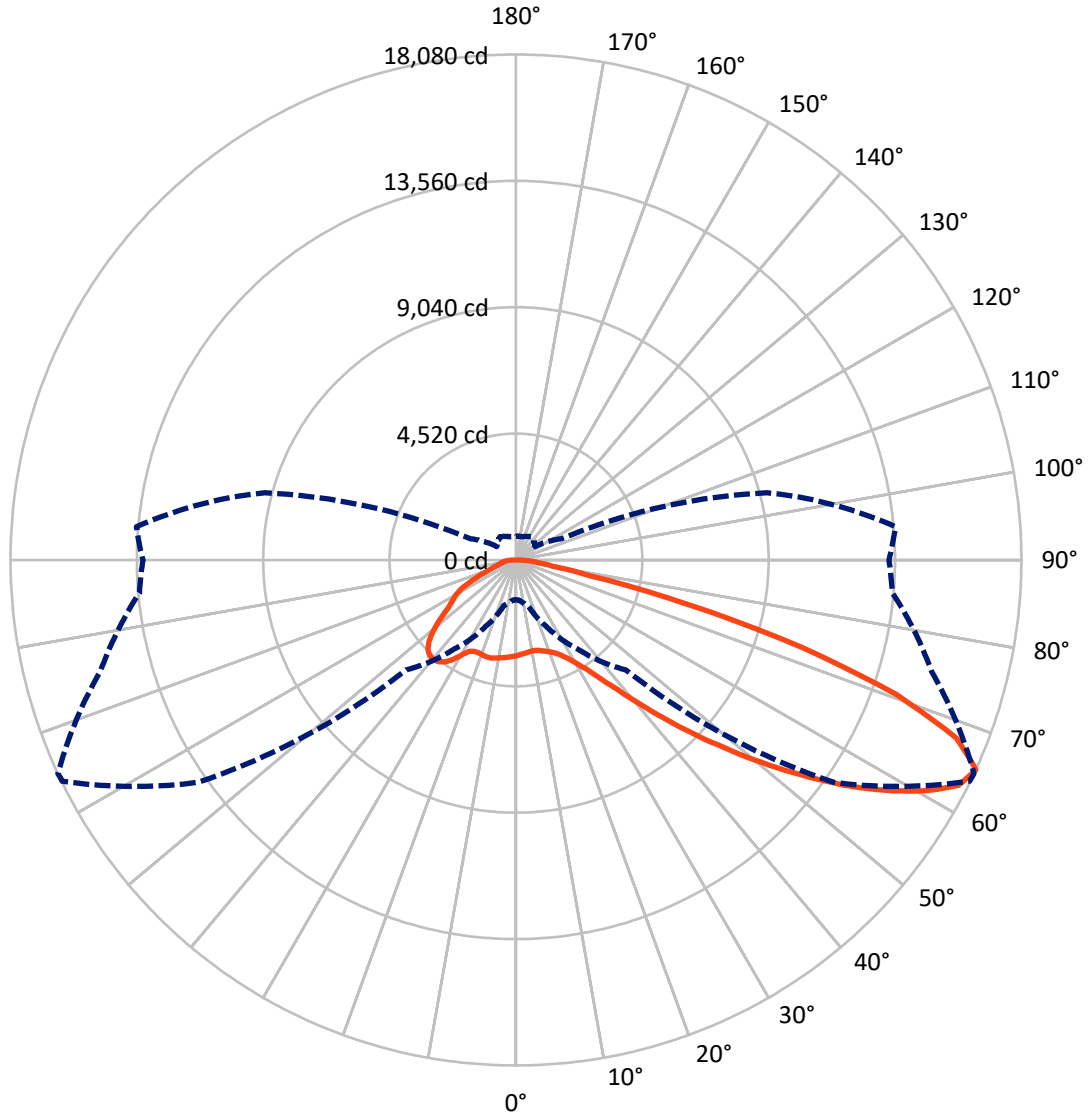
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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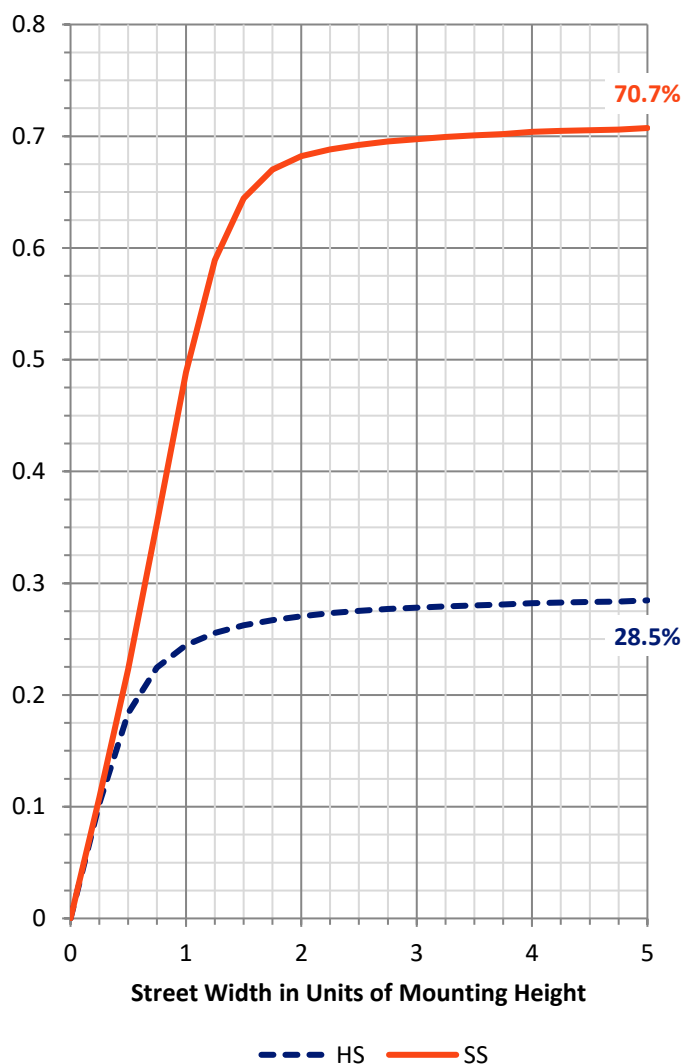
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7849.7	0.0	7849.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	19301.2	0.0	19301.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	27151.0	0.0	27151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.8	1.2
10°-20°	975.9	3.6
20°-30°	1733.4	6.4
30°-40°	2932.5	10.8
40°-50°	5104.9	18.8
50°-60°	6597.2	24.3
60°-70°	5772.9	21.3
70°-80°	3140.1	11.6
80°-90°	567.3	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°	27151.0	100.0
0°-180°	27151.0	100.0

Coefficient of Utilization



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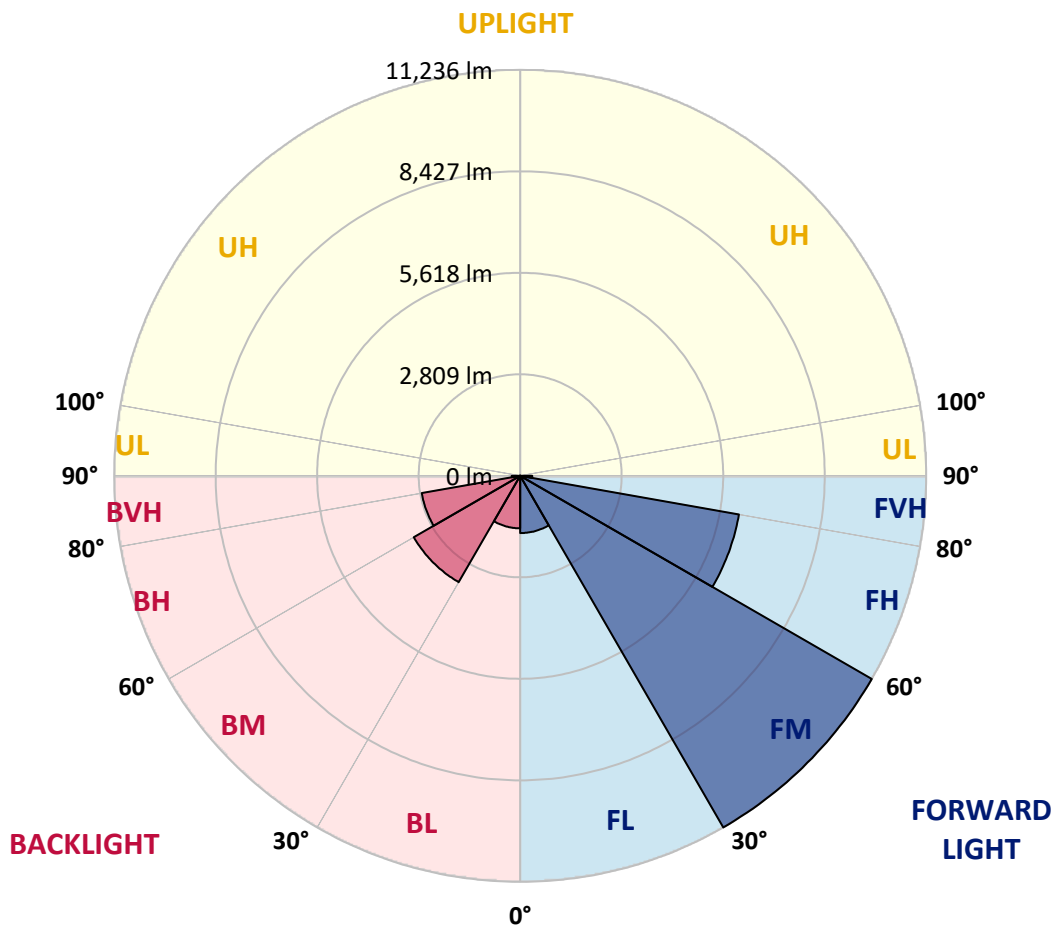
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.2	5.8			
FM (30°-60°)	11235.8	41.4			
FH (60°-80°)	6147.4	22.6			G3/7500
FVH (80°-90°)	333.9	1.2			G3/500
BL (0°-30°)	1451.9	5.3	B3/2500		
BM (30°-60°)	3398.8	12.5	B3/5000		
BH (60°-80°)	2765.6	10.2	B4/5000		G4/5000
BVH (80°-90°)	233.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8
2.5°	3370.0	3366.5	3359.3	3366.5	3370.0	3377.2	3373.6	3380.8	3377.2	3387.9	3405.8
5°	3284.3	3277.1	3273.5	3291.4	3302.1	3320.0	3327.2	3352.2	3348.6	3366.5	3395.1
7.5°	3187.8	3187.8	3184.2	3205.6	3219.9	3252.1	3277.1	3320.0	3323.6	3355.7	3387.9
10°	3112.7	3116.3	3112.7	3130.6	3152.0	3191.3	3234.2	3295.0	3298.6	3345.0	3377.2
12.5°	3084.1	3084.1	3084.1	3109.2	3137.7	3191.3	3241.4	3305.7	3312.9	3362.9	3391.5
15°	3123.4	3127.0	3119.9	3144.9	3177.1	3241.4	3287.8	3355.7	3362.9	3409.3	3427.2
17.5°	3262.8	3277.1	3259.3	3273.5	3266.4	3316.4	3359.3	3427.2	3430.8	3470.1	3477.2
20°	3538.0	3552.3	3523.7	3505.8	3441.5	3437.9	3455.8	3509.4	3509.4	3534.4	3516.6
22.5°	3963.3	3977.6	3927.5	3859.6	3706.0	3630.9	3591.6	3616.6	3613.1	3623.8	3577.3
25°	4527.9	4524.4	4463.6	4338.5	4091.9	3909.7	3813.2	3773.9	3773.9	3752.4	3695.2
27.5°	5228.4	5174.8	5067.6	4917.5	4574.4	4320.7	4113.4	4013.3	3995.4	3931.1	3823.9
30°	5975.3	5936.0	5782.3	5564.3	5167.6	4842.4	4499.3	4299.2	4288.5	4149.1	3988.3
32.5°	6854.4	6790.1	6618.6	6357.7	5882.4	5424.9	4996.1	4692.3	4674.5	4452.9	4231.3
35°	7983.7	7930.1	7597.8	7336.9	6725.8	6125.4	5617.9	5214.1	5199.8	4928.2	4645.9
37.5°	9338.2	9198.8	8877.2	8387.6	7744.3	7033.1	6389.8	5882.4	5864.5	5564.3	5206.9
40°	10546.1	10421.0	10135.1	9684.8	8995.1	8205.3	7333.3	6718.6	6700.8	6336.2	5885.9
42.5°	11439.5	11353.8	11167.9	10907.1	10413.9	9935.0	8537.7	7730.0	7697.8	7226.1	6665.0
45°	11957.7	11889.8	11782.6	11846.9	11839.8	11750.5	9974.3	8934.3	8830.7	8219.6	7533.4
47.5°	11832.7	11771.9	11814.8	12315.1	13004.8	13523.0	11646.8	10167.3	10027.9	9231.0	8459.0
50°	10928.5	10953.5	11178.7	12136.4	13683.9	14834.6	13501.6	11571.8	11385.9	10249.5	9338.2
52.5°	9281.0	9341.8	9888.5	11228.7	13608.8	15685.1	15177.7	13022.7	12776.1	11243.0	10138.7
55°	7372.6	7526.3	8233.9	9642.0	12629.6	15745.9	16442.8	14480.8	14209.2	12175.7	10835.6
57.5°	5453.5	5682.2	6500.6	7794.3	10753.4	14784.6	17075.3	15874.6	15545.8	13101.3	11571.8
60°	3459.4	3598.8	4542.2	6068.2	8230.3	12433.0	16993.1	17061.0	16775.1	14023.4	12340.1
62.5°	2208.6	2276.5	2751.8	4327.8	5753.7	9206.0	16096.1	17958.0	17765.1	14863.2	13069.2
65°	1418.8	1447.4	1690.4	2662.4	3916.8	5557.2	13862.5	18054.5	18079.6	15388.5	13519.5
67.5°	1154.3	1168.6	1258.0	1643.9	2769.6	3069.8	9656.2	16682.2	16986.0	15252.7	13365.8
70°	1050.7	1068.5	1161.5	1311.6	2144.2	2119.2	4674.5	13959.0	14455.8	14470.1	12683.2
72.5°	886.3	911.3	1036.4	1240.1	1658.2	1672.5	1979.9	9942.1	10674.8	12933.4	11657.5
75°	739.8	754.1	861.3	1093.6	1404.5	1336.6	1390.2	5271.3	6329.1	10371.0	10567.5
77.5°	600.4	614.7	693.3	872.0	1247.2	1040.0	1093.6	2183.6	2698.2	7040.3	8637.7
80°	428.8	443.1	532.5	679.0	943.5	936.3	811.2	1204.4	1308.0	3806.0	5610.8
82.5°	307.3	318.1	403.8	486.0	654.0	939.9	611.1	818.4	857.7	1686.8	2262.2
85°	207.3	207.3	278.8	321.6	421.7	593.2	493.2	553.9	578.9	800.5	611.1
87.5°	89.3	89.3	150.1	164.4	221.6	275.2	368.1	278.8	285.9	432.4	250.2
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°	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8	3430.8
2.5°	3416.5	3420.1	3427.2	3448.7	3463.0	3484.4	3495.1	3509.4	3509.4	3502.3	3505.8
5°	3409.3	3420.1	3445.1	3484.4	3509.4	3548.7	3577.3	3598.8	3605.9	3598.8	3602.3
7.5°	3405.8	3423.6	3466.5	3523.7	3559.4	3609.5	3648.8	3673.8	3691.7	3684.5	3688.1
10°	3395.1	3423.6	3477.2	3548.7	3602.3	3652.4	3688.1	3698.8	3709.5	3702.4	3698.8
12.5°	3409.3	3441.5	3498.7	3584.5	3645.2	3684.5	3695.2	3677.4	3652.4	3638.1	3634.5
15°	3437.9	3470.1	3527.3	3616.6	3670.2	3684.5	3659.5	3602.3	3545.2	3513.0	3509.4
17.5°	3477.2	3498.7	3545.2	3623.8	3666.7	3648.8	3598.8	3530.9	3488.0	3463.0	3466.5
20°	3502.3	3502.3	3538.0	3598.8	3634.5	3620.2	3559.4	3484.4	3416.5	3384.3	3373.6
22.5°	3538.0	3520.1	3523.7	3577.3	3627.3	3605.9	3477.2	3345.0	3248.5	3212.8	3209.2
25°	3634.5	3584.5	3552.3	3584.5	3702.4	3527.3	3270.0	3116.3	3027.0	2994.8	2998.4
27.5°	3752.4	3684.5	3616.6	3670.2	3763.1	3348.6	3005.5	2830.4	2776.8	2751.8	2762.5
30°	3870.4	3781.0	3691.7	3884.7	3720.3	3069.8	2666.0	2494.5	2448.0	2430.1	2444.4
32.5°	4088.4	3941.8	3834.6	4170.6	3588.0	2751.8	2297.9	2140.7	2097.8	2076.3	2069.2
35°	4452.9	4267.0	4159.8	4420.7	3402.2	2398.0	1962.0	1851.2	1804.7	1758.3	1751.1
37.5°	4978.2	4753.1	4656.6	4563.7	3141.3	2047.8	1704.7	1629.6	1561.7	1490.2	1486.7
40°	5607.2	5314.2	5242.7	4628.0	2780.4	1719.0	1526.0	1454.5	1368.7	1300.8	1304.4
42.5°	6332.7	5957.4	5803.8	4610.1	2333.7	1543.9	1397.3	1318.7	1243.7	1182.9	1179.3
45°	7108.2	6682.9	6329.1	4485.0	1890.5	1422.3	1318.7	1225.8	1150.7	1082.8	1075.7
47.5°	7965.9	7490.6	6815.1	4242.0	1561.7	1336.6	1272.3	1140.0	1072.1	1029.2	1029.2
50°	8830.7	8262.5	7261.8	3873.9	1368.7	1272.3	1204.4	1093.6	1040.0	1004.2	1004.2
52.5°	9570.5	9066.6	7629.9	3434.4	1247.2	1218.6	1157.9	1072.1	1014.9	982.8	979.2
55°	10288.8	9813.5	7958.7	2998.4	1147.2	1147.2	1147.2	1054.3	989.9	961.3	957.8
57.5°	11003.5	10599.7	8301.8	2712.5	1057.8	1086.4	1125.7	1032.8	968.5	943.5	939.9
60°	11811.2	11543.2	8698.5	2512.3	979.2	1022.1	1097.1	1007.8	932.7	911.3	907.7
62.5°	12668.9	12668.9	9059.4	2230.0	907.7	968.5	1054.3	975.6	900.6	882.7	879.1
65°	13340.8	13630.2	9291.7	1808.3	836.3	914.9	1004.2	932.7	857.7	854.1	847.0
67.5°	13419.4	13873.3	9145.2	1365.2	771.9	857.7	954.2	886.3	814.8	814.8	804.1
70°	12854.7	13315.8	8687.8	1022.1	725.5	800.5	889.9	829.1	761.2	768.4	750.5
72.5°	11911.3	12025.6	7551.3	807.7	671.9	739.8	811.2	764.8	704.0	704.0	679.0
75°	10667.6	10031.5	5485.7	675.4	607.5	668.3	732.6	693.3	639.7	621.8	607.5
77.5°	8491.2	7269.0	3187.8	582.5	553.9	600.4	643.3	614.7	568.2	528.9	528.9
80°	5174.8	4259.9	1408.1	503.9	489.6	525.3	553.9	521.8	482.5	443.1	432.4
82.5°	1969.1	1643.9	682.6	432.4	428.8	450.3	471.7	439.6	411.0	393.1	339.5
85°	539.6	496.7	468.2	360.9	353.8	350.2	375.2	360.9	321.6	264.5	235.9
87.5°	203.7	232.3	253.7	221.6	235.9	218.0	250.2	228.7	203.7	132.2	117.9
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)