

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: P265729

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25116.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

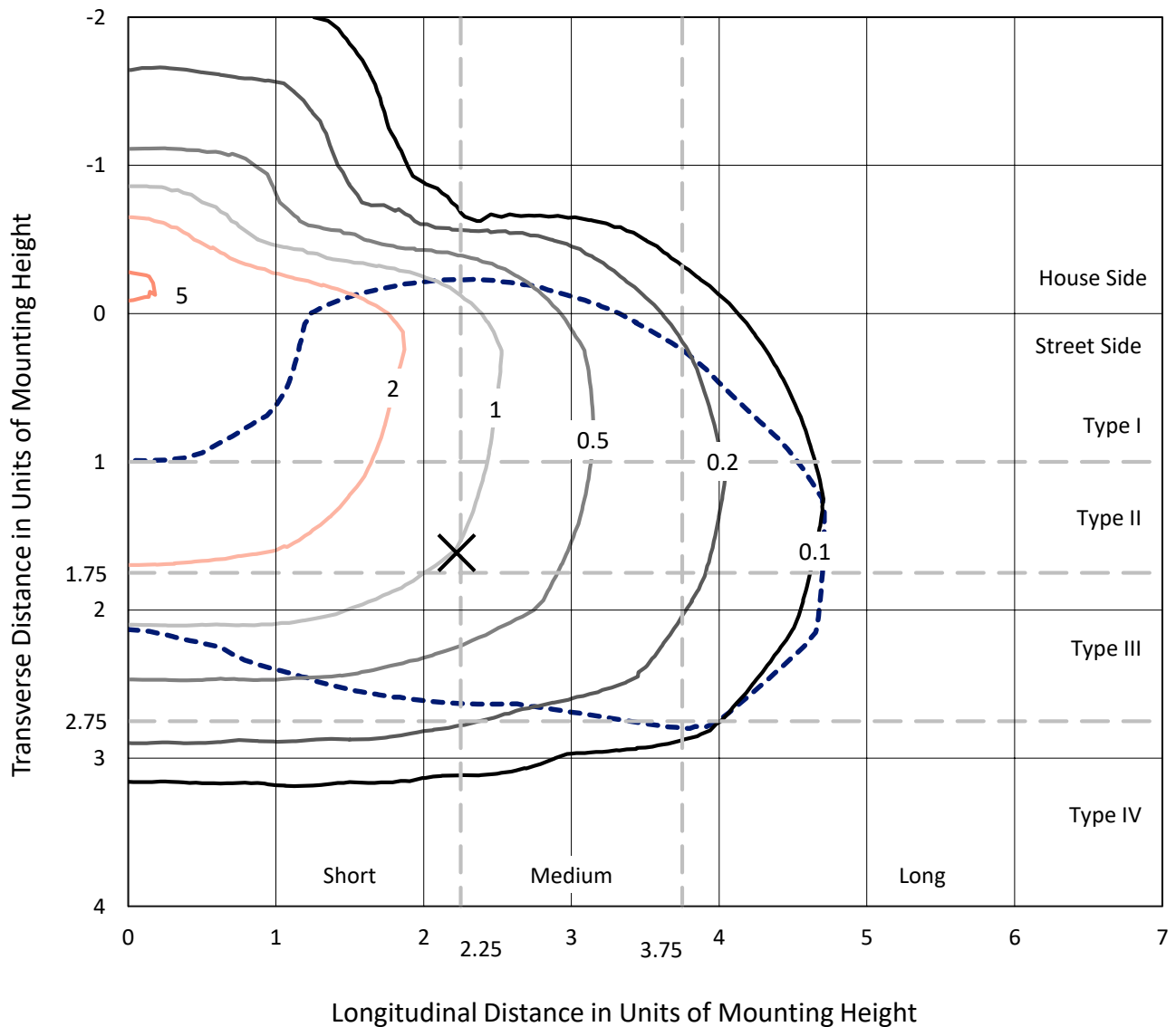
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

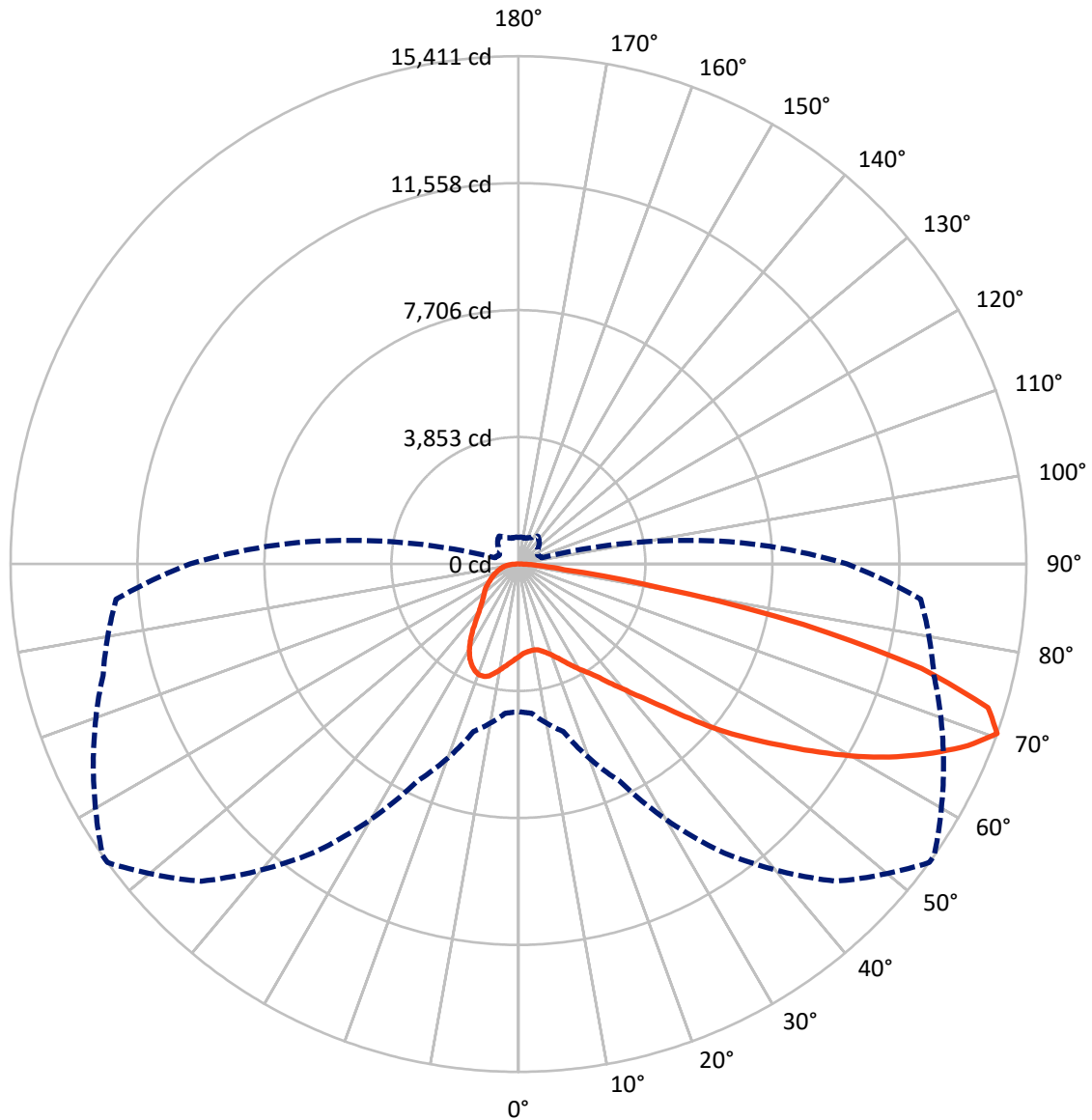
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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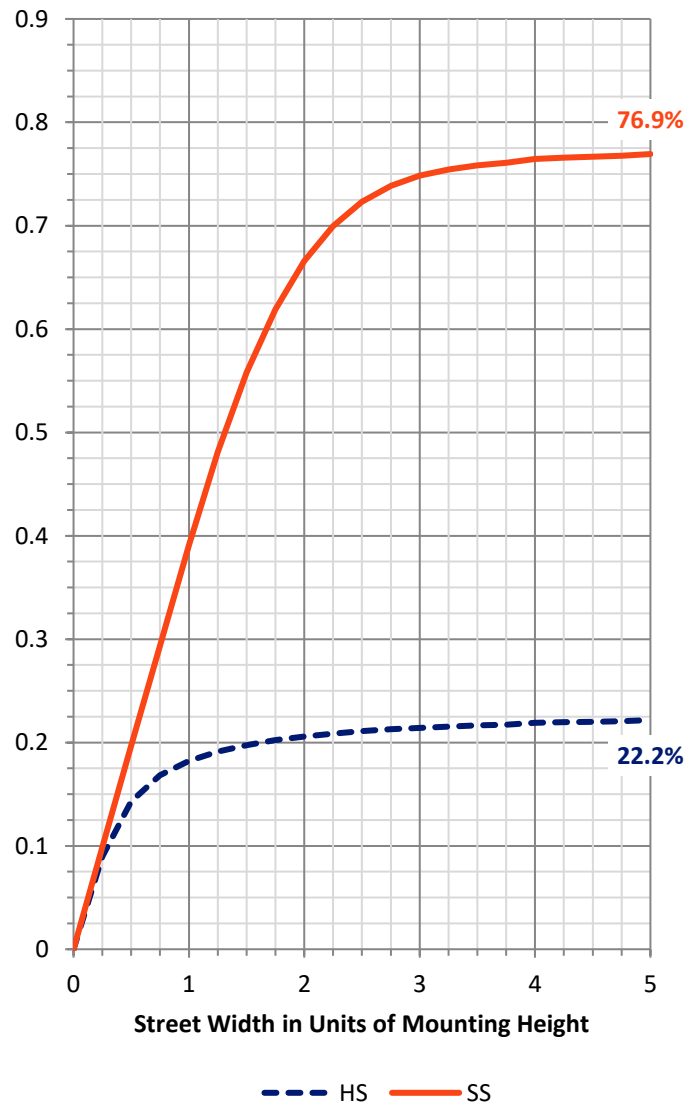
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5696.2	0.0	5696.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19419.8	0.0	19419.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	25116.1	0.0	25116.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.1
10°-20°	881.1	3.5
20°-30°	1530.9	6.1
30°-40°	2237.2	8.9
40°-50°	3511.1	14.0
50°-60°	5399.3	21.5
60°-70°	6596.6	26.3
70°-80°	4089.9	16.3
80°-90°	594.1	2.4
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°	25116.1	100.0
0°-180°	25116.1	100.0

Coefficient of Utilization



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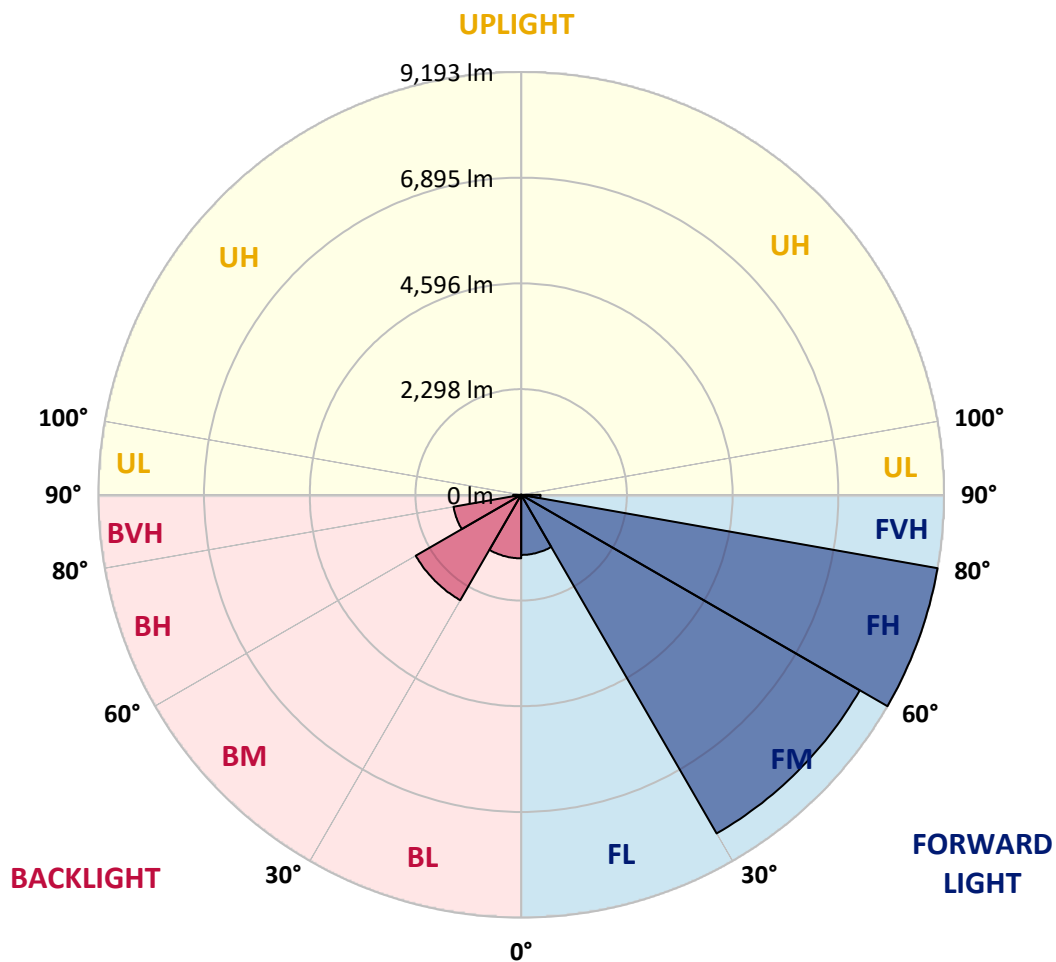
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1306.8	5.2			
FM	(30°-60°)	8500.6	33.8			
FH	(60°-80°)	9192.9	36.6			G4/12000
FVH	(80°-90°)	419.5	1.7			G3/500
BL	(0°-30°)	1381.0	5.5	B3/2500		
BM	(30°-60°)	2647.0	10.5	B3/5000		
BH	(60°-80°)	1493.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	174.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0
2.5°	2699.5	2690.5	2690.5	2704.2	2708.7	2722.7	2722.7	2727.3	2741.0	2763.9	2791.7
5°	2616.9	2612.2	2616.9	2635.2	2644.4	2672.0	2681.3	2685.8	2713.4	2750.3	2791.7
7.5°	2534.1	2529.4	2538.6	2566.3	2593.9	2635.2	2658.3	2662.8	2704.2	2754.8	2810.0
10°	2506.5	2501.9	2515.7	2538.6	2566.3	2612.2	2649.0	2653.7	2713.4	2773.2	2851.4
12.5°	2543.2	2538.6	2552.4	2575.4	2603.0	2635.2	2676.6	2681.3	2759.5	2837.6	2920.4
15°	2635.2	2635.2	2639.8	2653.7	2681.3	2708.7	2745.6	2750.3	2833.0	2924.9	3007.7
17.5°	2777.7	2768.5	2768.5	2763.9	2782.4	2796.2	2842.1	2846.8	2934.1	3017.0	3099.7
20°	2952.5	2948.0	2929.6	2906.6	2902.0	2911.1	2957.1	2961.7	3049.1	3118.1	3196.3
22.5°	3164.1	3168.7	3127.3	3076.8	3053.7	3067.5	3108.9	3113.5	3177.9	3237.8	3306.8
25°	3444.6	3430.8	3371.1	3297.5	3251.4	3251.4	3292.8	3292.8	3352.7	3389.5	3435.5
27.5°	3711.3	3683.8	3628.7	3522.9	3449.2	3463.1	3504.5	3504.5	3559.7	3573.4	3596.5
30°	4001.1	3973.6	3904.6	3771.2	3674.5	3665.4	3716.0	3711.3	3785.0	3780.3	3762.0
32.5°	4355.3	4341.5	4226.4	4056.2	3927.5	3895.3	3941.4	3946.0	3991.9	3978.1	3918.3
35°	4851.9	4847.3	4741.6	4442.7	4272.5	4212.7	4240.3	4240.3	4272.5	4235.7	4134.4
37.5°	5477.3	5486.6	5394.6	4953.2	4713.9	4612.7	4617.4	4612.7	4622.0	4580.5	4474.8
40°	6102.8	6125.8	6121.3	5587.7	5284.2	5109.5	5045.2	5035.9	5058.9	5040.5	4939.3
42.5°	6926.1	6981.3	6852.5	6369.6	6029.2	5735.0	5560.1	5537.2	5587.7	5610.8	5514.2
45°	7781.5	7763.2	7560.8	7211.2	6903.0	6525.9	6194.8	6158.1	6194.8	6263.8	6162.6
47.5°	8227.5	8213.8	8163.2	7988.4	7942.5	7510.2	7008.8	6976.6	6907.6	7004.3	6884.7
50°	8963.5	8977.2	8770.3	8751.8	8945.1	8706.0	7928.7	7855.0	7731.0	7809.1	7707.8
52.5°	9496.9	9437.1	9308.3	9469.4	10071.7	9943.0	8793.2	8761.1	8646.0	8627.7	8581.7
55°	9713.1	9713.1	9736.1	10108.5	10968.7	10798.4	9731.5	9763.7	9607.4	9478.6	9538.4
57.5°	9777.4	9805.1	10002.7	10619.0	12021.7	11465.2	10766.2	10812.2	10586.9	10329.3	10518.0
60°	9460.1	9543.0	10016.6	10908.7	12615.1	12173.6	11856.2	11870.1	11543.5	11166.3	11497.4
62.5°	8646.0	8747.2	9593.4	11028.4	12518.5	12900.2	12886.4	12918.5	12472.4	12003.4	12417.4
65°	7648.1	7749.3	8650.7	10692.6	12444.8	13419.9	13829.1	13916.5	13341.6	12711.6	12992.1
67.5°	6181.1	6314.5	7169.8	9561.3	12086.2	13847.6	14712.3	14804.2	14013.1	13079.5	12941.6
70°	4479.4	4543.7	5261.3	7266.4	10623.6	13613.0	15411.2	15406.7	14234.0	13052.0	12251.8
72.5°	2156.9	2207.6	2828.4	4511.6	7597.5	11552.7	14905.3	14992.7	13930.3	12651.8	10674.3
75°	887.6	938.2	1145.2	1904.0	3987.3	7634.3	12633.5	12840.5	12651.8	11354.9	8351.8
77.5°	551.9	570.2	671.5	984.3	1821.3	3564.2	8843.9	9124.4	10025.9	9096.7	5514.2
80°	413.8	427.8	501.3	689.9	1149.7	1315.3	4392.1	4746.1	6075.2	5219.8	2497.3
82.5°	344.9	349.5	400.1	501.3	781.9	754.2	1407.3	1568.3	2833.0	1991.4	859.9
85°	322.0	331.1	358.8	358.8	496.8	473.6	584.1	611.7	823.2	680.6	299.0
87.5°	165.6	156.3	317.3	280.5	257.5	230.0	248.3	266.7	308.1	326.5	133.4
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°	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0
2.5°	2800.7	2814.6	2837.6	2860.6	2888.2	2920.4	2938.7	2961.7	2980.1	2971.0	2966.4
5°	2814.6	2837.6	2888.2	2934.1	2989.3	3053.7	3095.1	3141.2	3177.9	3187.0	3173.4
7.5°	2837.6	2879.0	2948.0	3030.7	3104.4	3187.0	3251.4	3315.9	3361.8	3371.1	3371.1
10°	2892.7	2938.7	3030.7	3141.2	3228.5	3315.9	3389.5	3440.1	3481.4	3499.8	3499.8
12.5°	2971.0	3026.1	3136.5	3269.9	3366.5	3449.2	3490.6	3513.6	3532.0	3550.5	3555.0
15°	3063.0	3122.7	3256.0	3398.6	3499.8	3541.2	3541.2	3536.6	3536.6	3545.8	3555.0
17.5°	3154.8	3219.3	3357.2	3509.0	3573.4	3550.5	3518.2	3504.5	3495.2	3490.6	3504.5
20°	3251.4	3315.9	3453.9	3596.5	3577.9	3481.4	3435.5	3403.3	3375.7	3361.8	3380.2
22.5°	3357.2	3417.1	3559.7	3656.2	3518.2	3371.1	3283.7	3233.1	3187.0	3159.5	3177.9
25°	3481.4	3541.2	3679.2	3674.5	3412.4	3205.5	3067.5	2984.8	2934.1	2906.6	2906.6
27.5°	3628.7	3679.2	3812.5	3628.7	3265.2	2984.8	2782.4	2704.2	2690.5	2667.3	2667.3
30°	3780.3	3821.7	3936.7	3522.9	3063.0	2695.1	2474.2	2437.6	2442.0	2419.0	2423.6
32.5°	3936.7	3978.1	4010.4	3366.5	2800.7	2368.6	2221.2	2193.8	2189.1	2170.8	2152.2
35°	4157.4	4217.3	4019.6	3154.8	2483.5	2097.2	1991.4	1963.8	1936.1	1871.8	1871.8
37.5°	4493.2	4557.6	3996.5	2892.7	2156.9	1885.6	1789.1	1752.2	1706.2	1641.8	1618.8
40°	4953.2	4953.2	3946.0	2598.4	1894.7	1715.5	1623.4	1577.5	1526.8	1462.5	1448.6
42.5°	5495.8	5367.1	3867.7	2299.5	1701.6	1600.4	1517.6	1467.1	1407.3	1333.8	1324.6
45°	6130.5	5781.0	3757.4	2032.8	1559.1	1531.5	1480.9	1393.5	1292.3	1214.1	1200.3
47.5°	6746.7	6153.5	3651.6	1844.2	1439.4	1503.9	1462.5	1315.3	1177.4	1066.9	1053.2
50°	7422.8	6484.5	3527.5	1687.8	1347.5	1485.4	1439.4	1200.3	1048.6	970.3	961.1
52.5°	8098.8	6820.3	3394.1	1522.3	1269.3	1448.6	1384.3	1117.5	1044.0	938.2	924.4
55°	8811.7	7211.2	3237.8	1338.4	1177.4	1375.0	1310.6	1113.0	1076.2	938.2	906.0
57.5°	9506.1	7643.5	2984.8	1159.0	1076.2	1264.8	1283.0	1085.3	1007.2	928.9	892.1
60°	10274.2	8103.4	2566.3	1007.2	988.8	1172.7	1246.3	1025.5	928.9	901.4	883.0
62.5°	10890.4	8517.3	2005.1	901.4	915.3	1099.2	1200.3	988.8	896.8	873.8	869.2
65°	11157.2	8526.5	1439.4	809.5	841.6	1030.1	1154.3	956.5	869.2	859.9	855.5
67.5°	10876.6	8057.4	1011.9	722.1	763.4	965.8	1094.6	924.4	841.6	846.3	837.0
70°	9970.6	7068.7	740.5	639.2	689.9	896.8	1030.1	883.0	809.5	818.6	804.8
72.5°	8342.6	5509.6	593.3	570.2	630.2	823.2	965.8	837.0	758.9	763.4	735.8
75°	6162.6	3651.6	496.8	510.4	561.1	754.2	883.0	777.3	703.6	685.2	666.8
77.5°	3665.4	1876.4	409.3	446.1	501.3	671.5	791.0	703.6	643.8	611.7	597.8
80°	1513.0	758.9	335.7	377.1	436.8	597.8	699.1	616.2	574.8	542.7	524.3
82.5°	602.5	372.4	266.7	308.1	367.9	519.7	611.7	542.7	501.3	478.3	427.8
85°	230.0	184.0	179.3	216.1	275.9	400.1	505.8	455.4	423.1	363.4	349.5
87.5°	91.9	82.7	82.7	105.8	156.3	253.0	363.4	317.3	331.1	262.1	266.7
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)