

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: P836451

Luminaire Tested: **ARCH3-190-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21691 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

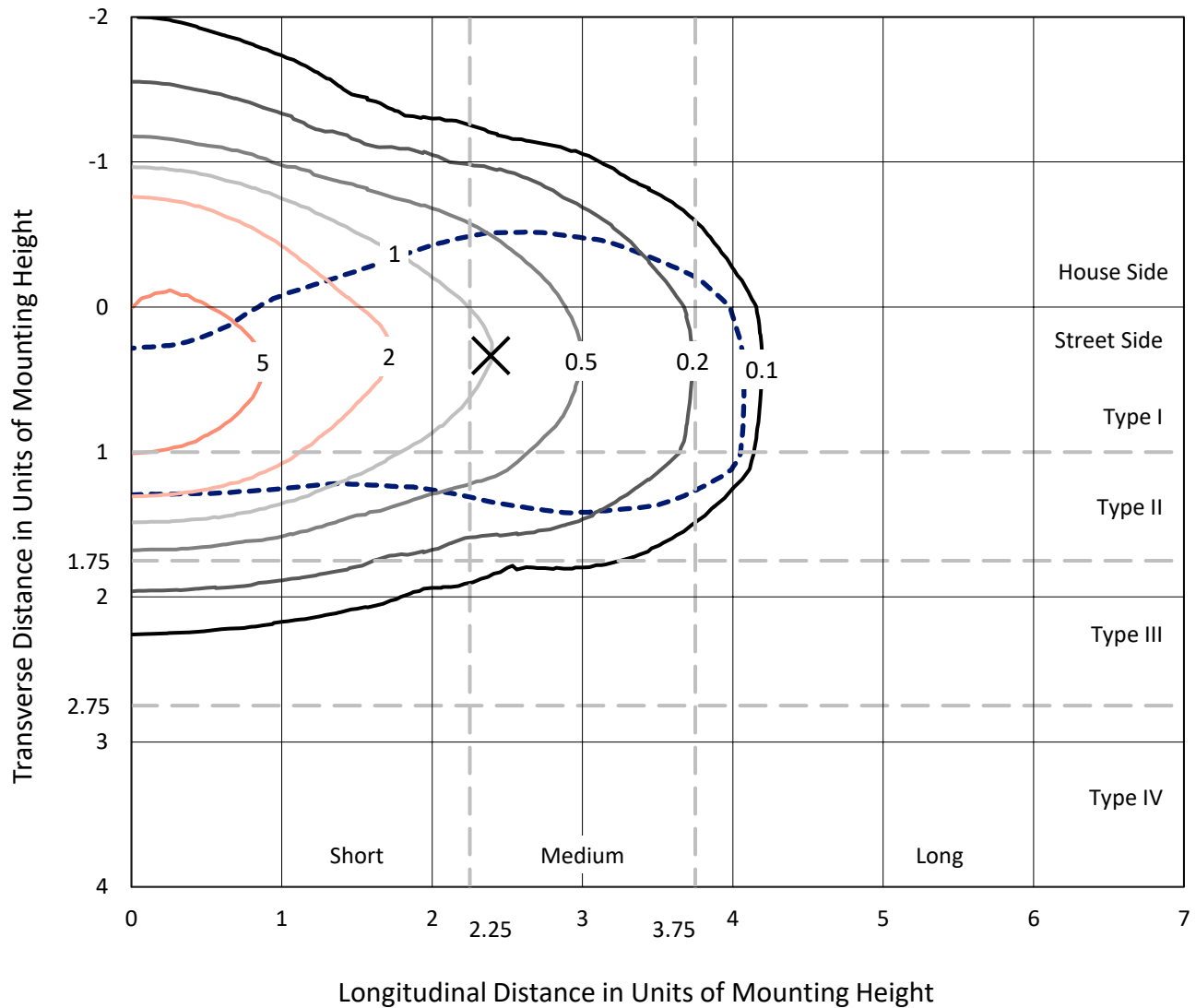


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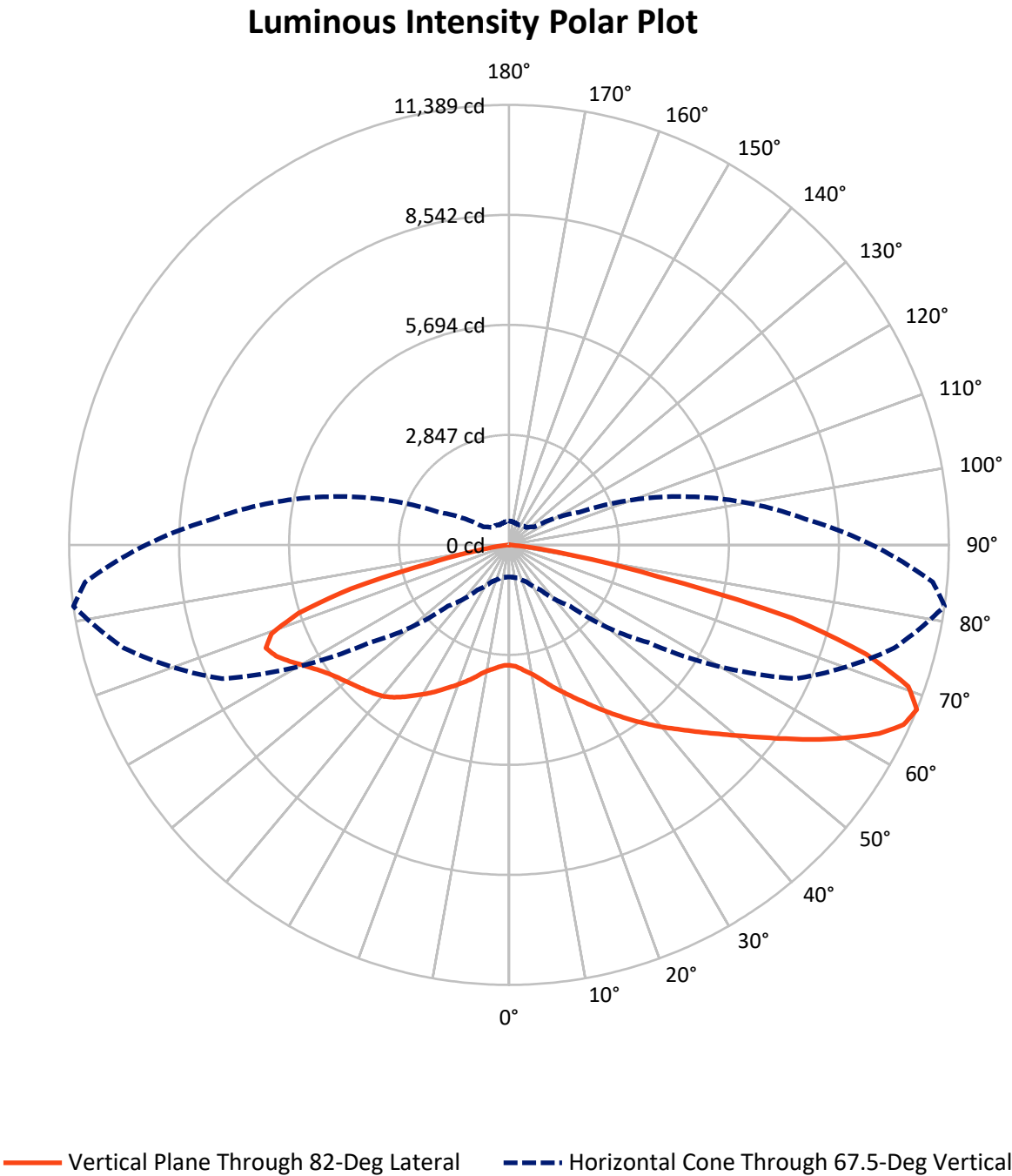
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Medium - N/A

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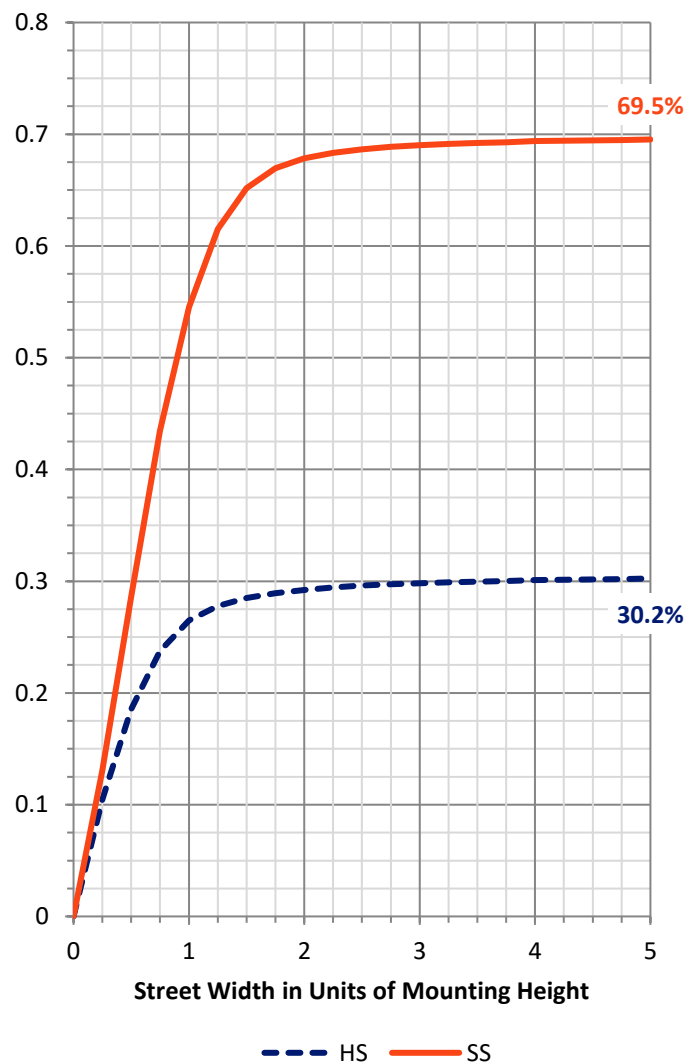
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6605.8	0.0	6605.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15085.2	0.0	15085.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	21691.0	0.0	21691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	1.5
10°-20°	1160.7	5.4
20°-30°	2332.8	10.8
30°-40°	3664.4	16.9
40°-50°	4464.0	20.6
50°-60°	4217.9	19.4
60°-70°	3483.1	16.1
70°-80°	1896.7	8.7
80°-90°	149.1	0.7
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°	21691.0	100.0
0°-180°	21691.0	100.0

Coefficient of Utilization



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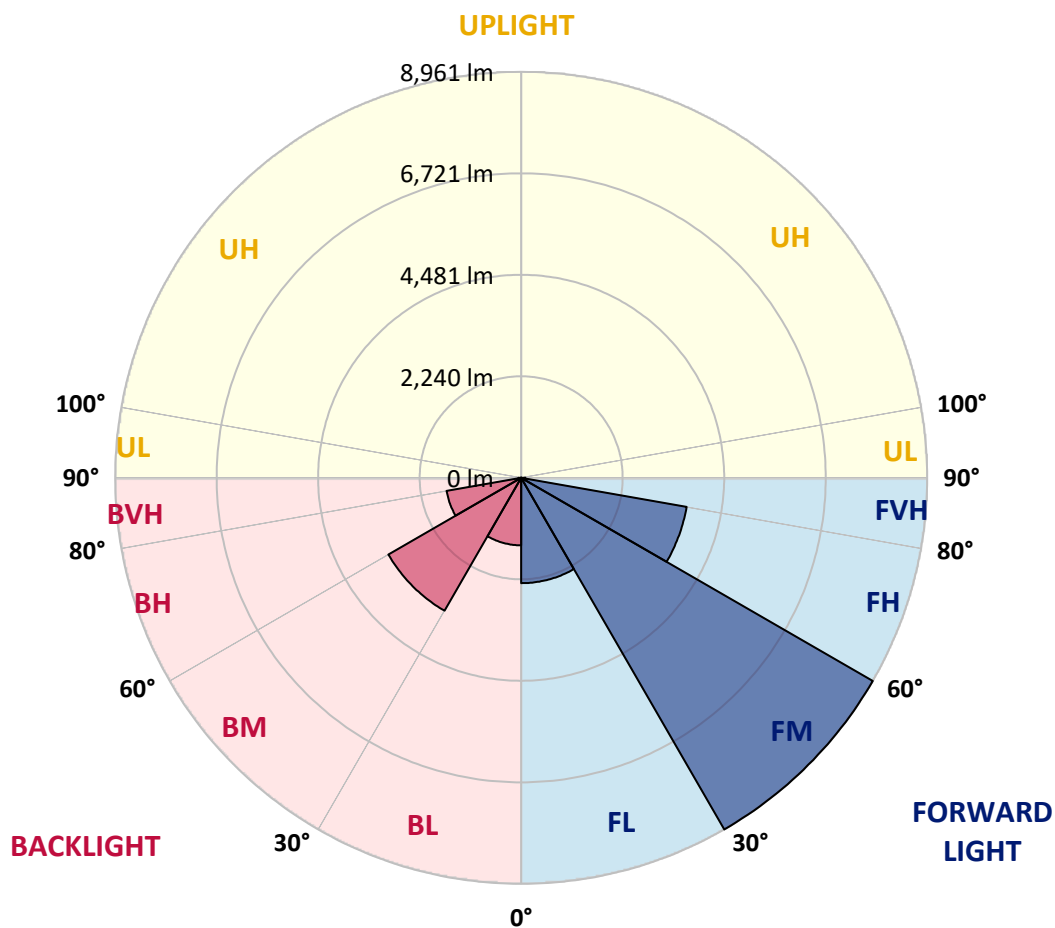
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2326.1	10.7			
FM	(30°-60°)	8961.5	41.3			
FH	(60°-80°)	3707.8	17.1			G2/5000
FVH	(80°-90°)	89.9	0.4			G1/100
BL	(0°-30°)	1489.7	6.9	B3/2500		
BM	(30°-60°)	3384.9	15.6	B3/5000		
BH	(60°-80°)	1672.0	7.7	B3/2500		G3/2500
BVH	(80°-90°)	59.2	0.3			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1
2.5°	3259.8	3259.8	3285.0	3285.0	3263.0	3228.3	3218.9	3181.1	3146.4	3146.4	3149.6
5°	3571.6	3568.5	3587.4	3562.2	3508.6	3439.3	3392.1	3310.2	3240.9	3218.9	3215.7
7.5°	3952.7	3949.6	3959.0	3918.1	3817.3	3703.9	3609.4	3477.1	3363.7	3316.5	3303.9
10°	4377.9	4374.7	4365.3	4296.0	4160.6	3984.2	3842.5	3659.8	3489.7	3414.1	3398.4
12.5°	4866.1	4859.8	4837.7	4736.9	4551.1	4324.4	4119.6	3883.4	3656.6	3552.7	3518.1
15°	5411.0	5401.5	5360.6	5237.7	4988.9	4702.3	4437.7	4135.4	3858.2	3722.8	3675.5
17.5°	5984.2	5984.2	5921.2	5738.5	5461.3	5105.4	4777.9	4393.6	4069.2	3902.3	3845.6
20°	6566.8	6563.7	6485.0	6264.5	5936.9	5527.5	5111.7	4689.7	4286.6	4085.0	4015.7
22.5°	7181.0	7174.7	7077.1	6825.1	6434.6	5971.6	5486.5	4982.6	4525.9	4283.4	4195.2
25°	7886.5	7877.1	7757.4	7448.7	6985.7	6462.9	5908.6	5325.9	4799.9	4503.9	4399.9
27.5°	8636.1	8623.5	8481.8	8122.7	7615.6	6985.7	6374.7	5722.8	5102.3	4749.5	4633.0
30°	9303.8	9294.4	9140.0	8771.5	8188.9	7505.4	6818.8	6119.6	5420.4	5011.0	4866.1
32.5°	9807.7	9807.7	9669.2	9307.0	8702.3	8003.0	7266.0	6494.4	5751.1	5291.3	5121.2
35°	10113.3	10122.7	10003.0	9713.3	9143.2	8472.3	7729.0	6935.3	6103.9	5590.5	5407.8
37.5°	10157.3	10188.8	10119.6	9924.3	9448.7	8862.9	8182.6	7360.5	6469.2	5892.8	5688.1
40°	9952.6	9974.7	9977.8	9902.2	9574.7	9143.2	8582.6	7810.9	6856.6	6210.9	5974.7
42.5°	9543.2	9558.9	9587.3	9609.3	9483.3	9266.0	8888.1	8229.8	7269.2	6535.3	6258.2
45°	9014.1	9010.9	9058.2	9152.6	9146.3	9196.7	9058.2	8610.9	7697.5	6903.8	6573.1
47.5°	8223.5	8207.8	8374.7	8588.9	8696.0	8932.2	9061.3	8910.1	8163.7	7310.1	6932.2
50°	6985.7	6970.0	7335.3	7839.3	8154.2	8513.3	8888.1	9089.6	8651.9	7766.8	7322.7
52.5°	5480.2	5464.5	5927.5	6809.4	7496.0	8018.8	8538.5	9130.6	9114.8	8277.1	7763.7
55°	4075.5	4062.9	4513.3	5467.6	6579.4	7445.6	8110.1	9023.5	9549.5	8862.9	8299.1
57.5°	2872.4	2866.1	3256.7	4047.2	5401.5	6746.4	7697.5	8815.6	9949.5	9499.1	8903.8
60°	2015.7	2006.3	2289.7	2900.8	4085.0	5691.3	7288.1	8538.5	10248.7	10125.9	9546.3
62.5°	1357.5	1351.2	1552.7	2063.0	2900.8	4381.0	6667.6	8352.6	10418.8	10755.8	10195.1
65°	1029.9	1026.8	1118.1	1398.4	2053.5	3146.4	5681.8	8330.6	10440.8	11228.2	10746.3
67.5°	831.5	834.6	885.0	1045.7	1420.5	2236.2	4406.2	8192.0	10324.3	11388.8	11014.0
70°	680.3	680.3	702.4	809.4	1048.8	1508.6	3077.1	7562.1	9999.9	10969.9	10695.9
72.5°	519.7	522.8	592.1	655.1	790.5	1058.3	1971.6	6258.2	9234.5	9672.3	9464.4
75°	412.6	409.4	450.4	538.6	614.2	755.9	1209.4	4488.1	7858.2	7559.0	7426.7
77.5°	296.1	292.9	324.4	400.0	466.1	535.4	721.3	2264.5	4274.0	3927.5	3829.9
80°	201.6	195.3	223.6	277.2	308.7	315.0	352.8	869.3	1864.5	1757.5	1735.4
82.5°	103.9	103.9	119.7	157.5	160.6	163.8	157.5	280.3	617.3	576.4	551.2
85°	40.9	40.9	44.1	53.5	53.5	56.7	56.7	72.4	66.1	63.0	59.8
87.5°	3.1	3.1	6.3	6.3	9.4	9.4	9.4	12.6	15.7	15.7	15.7
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°	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1
2.5°	3143.3	3130.7	3089.7	3080.3	3074.0	3064.5	3067.7	3045.6	3036.2	3039.3	3026.7
5°	3200.0	3177.9	3127.5	3105.5	3099.2	3089.7	3099.2	3083.4	3067.7	3074.0	3067.7
7.5°	3278.7	3247.2	3184.2	3162.2	3159.0	3149.6	3162.2	3149.6	3137.0	3143.3	3130.7
10°	3360.6	3319.6	3250.4	3228.3	3228.3	3225.2	3237.8	3218.9	3206.3	3209.4	3203.1
12.5°	3480.3	3426.7	3351.1	3332.2	3322.8	3332.2	3335.4	3310.2	3288.1	3291.3	3281.8
15°	3625.2	3565.3	3483.4	3455.1	3448.8	3445.6	3433.0	3401.5	3373.2	3370.0	3360.6
17.5°	3782.6	3707.0	3609.4	3581.1	3552.7	3543.3	3511.8	3470.8	3426.7	3426.7	3414.1
20°	3933.8	3848.8	3732.2	3691.3	3650.3	3612.6	3559.0	3492.9	3436.2	3426.7	3414.1
22.5°	4097.6	3996.8	3861.4	3801.5	3729.1	3653.5	3562.2	3474.0	3401.5	3385.8	3376.3
25°	4280.3	4154.3	3993.6	3905.5	3788.9	3672.4	3537.0	3423.6	3338.5	3313.3	3307.0
27.5°	4481.8	4330.7	4135.4	4006.2	3836.2	3653.5	3480.3	3344.8	3240.9	3209.4	3200.0
30°	4686.6	4507.0	4264.5	4075.5	3836.2	3593.7	3376.3	3218.9	3099.2	3055.1	3048.8
32.5°	4891.3	4689.7	4381.0	4113.3	3798.4	3492.9	3240.9	3055.1	2919.6	2866.1	2878.7
35°	5136.9	4891.3	4488.1	4129.1	3735.4	3370.0	3086.6	2869.3	2730.7	2683.4	2692.9
37.5°	5392.1	5092.8	4573.2	4116.5	3647.2	3231.5	2913.3	2702.3	2529.1	2447.2	2456.7
40°	5612.5	5275.5	4633.0	4072.4	3533.8	3074.0	2743.3	2466.1	2226.7	2148.0	2138.6
42.5°	5820.4	5411.0	4664.5	4006.2	3404.7	2891.3	2500.8	2144.9	1905.5	1807.9	1811.0
45°	6037.7	5543.2	4651.9	3918.1	3244.1	2677.1	2188.9	1829.9	1618.9	1530.7	1533.8
47.5°	6286.5	5685.0	4639.3	3823.6	3048.8	2400.0	1889.7	1552.7	1370.1	1307.1	1300.8
50°	6551.1	5842.4	4623.6	3707.0	2831.5	2091.3	1593.7	1294.5	1140.1	1099.2	1089.7
52.5°	6850.3	6012.5	4614.1	3568.5	2570.0	1763.8	1329.1	1067.7	963.8	935.4	932.3
55°	7209.4	6210.9	4626.7	3401.5	2255.1	1455.1	1105.5	919.7	850.4	834.6	831.5
57.5°	7647.1	6466.1	4664.5	3206.3	1924.4	1187.4	941.7	828.3	784.2	771.6	771.6
60°	8122.7	6755.8	4733.8	2985.8	1593.7	979.5	834.6	755.9	737.0	752.7	752.7
62.5°	8636.1	7096.0	4856.6	2718.1	1285.0	828.3	749.6	696.1	683.5	715.0	718.1
65°	9111.7	7426.7	4935.4	2396.8	1020.5	718.1	683.5	636.2	642.5	674.0	670.9
67.5°	9404.6	7700.7	4825.1	1993.7	809.4	636.2	614.2	573.2	589.0	614.2	617.3
70°	9225.1	7546.4	4280.3	1505.5	633.1	554.3	538.6	513.4	526.0	557.5	570.1
72.5°	8346.3	6759.0	3329.1	1017.3	510.2	466.1	472.4	459.8	475.6	503.9	532.3
75°	6774.7	5108.6	2233.0	652.0	403.1	396.8	406.3	396.8	403.1	431.5	447.2
77.5°	3537.0	2491.3	1111.8	406.3	299.2	308.7	324.4	327.6	346.5	352.8	359.1
80°	1650.4	1121.2	463.0	226.8	198.4	217.3	248.8	252.0	258.3	267.7	270.9
82.5°	538.6	337.0	214.2	122.8	113.4	122.8	160.6	192.1	195.3	214.2	214.2
85°	56.7	34.6	47.2	50.4	44.1	53.5	72.4	69.3	31.5	18.9	18.9
87.5°	15.7	12.6	15.7	15.7	12.6	12.6	9.4	3.1	0.0	0.0	0.0
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)