

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: P836093

Luminaire Tested: **ARCH3-140-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18026 lumens
Efficiency: N/A
Efficacy: 126.5 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): 142.5
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



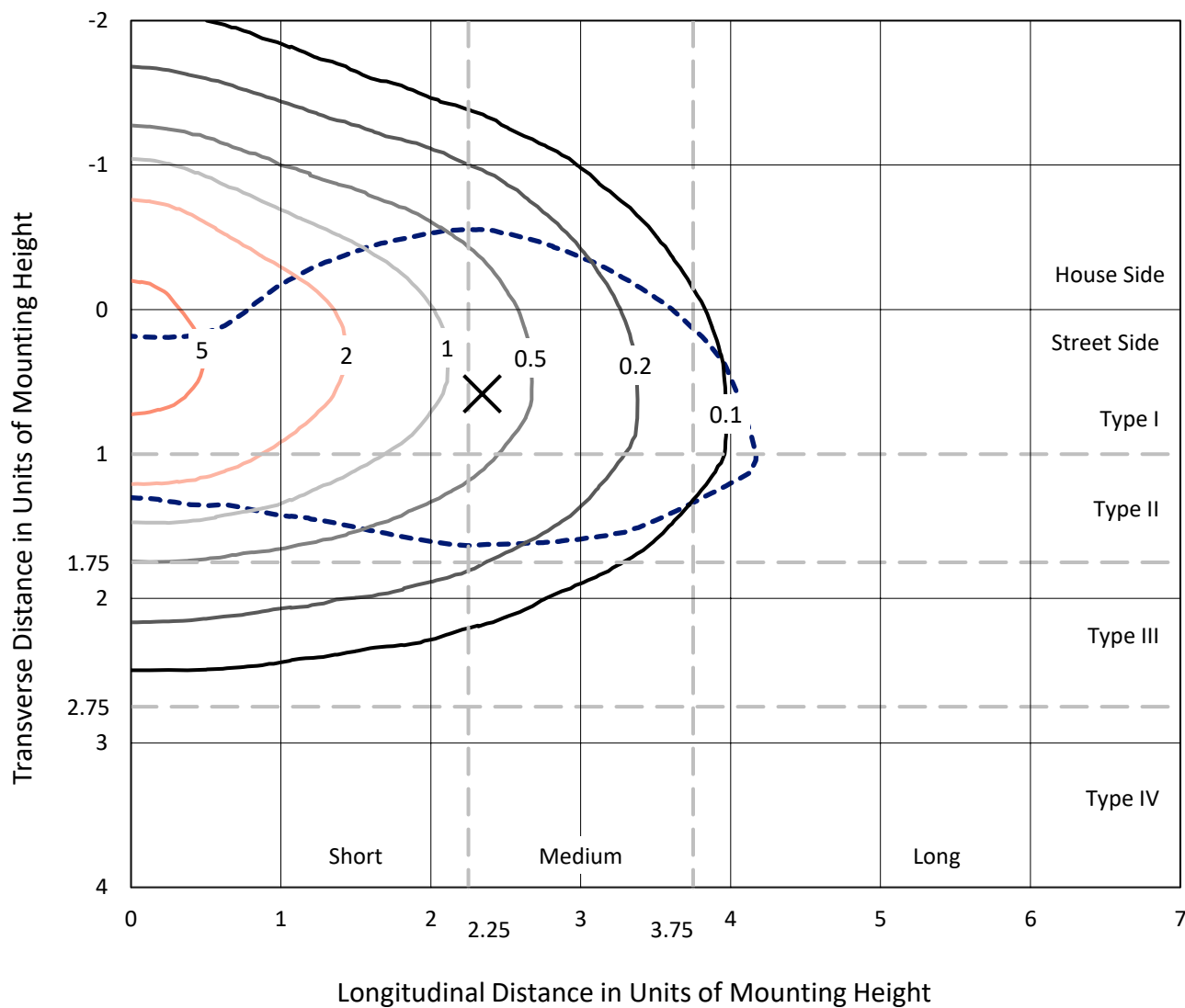
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Iso-Footcandle Lines of Horizontal Illumination

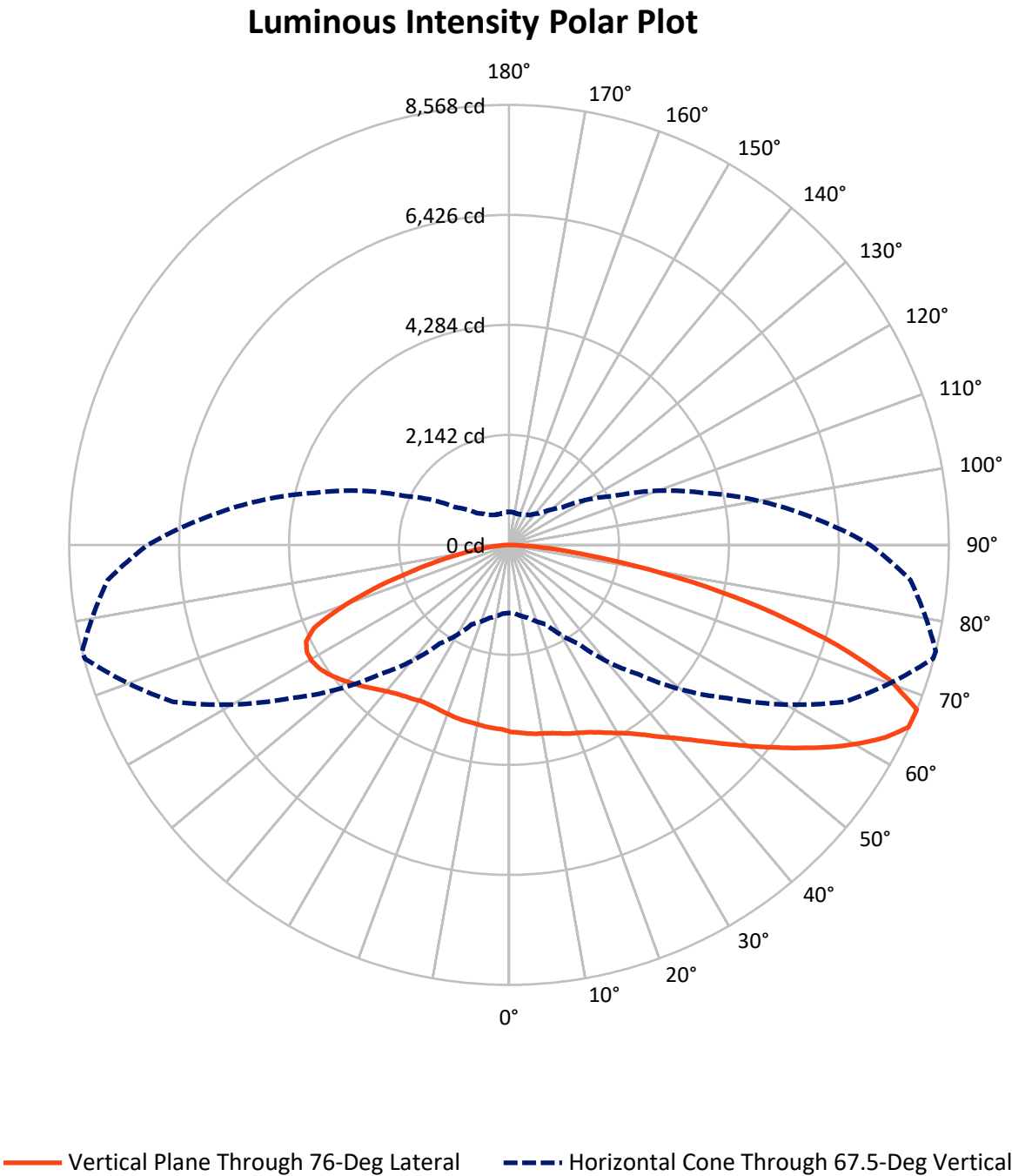
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Medium - N/A

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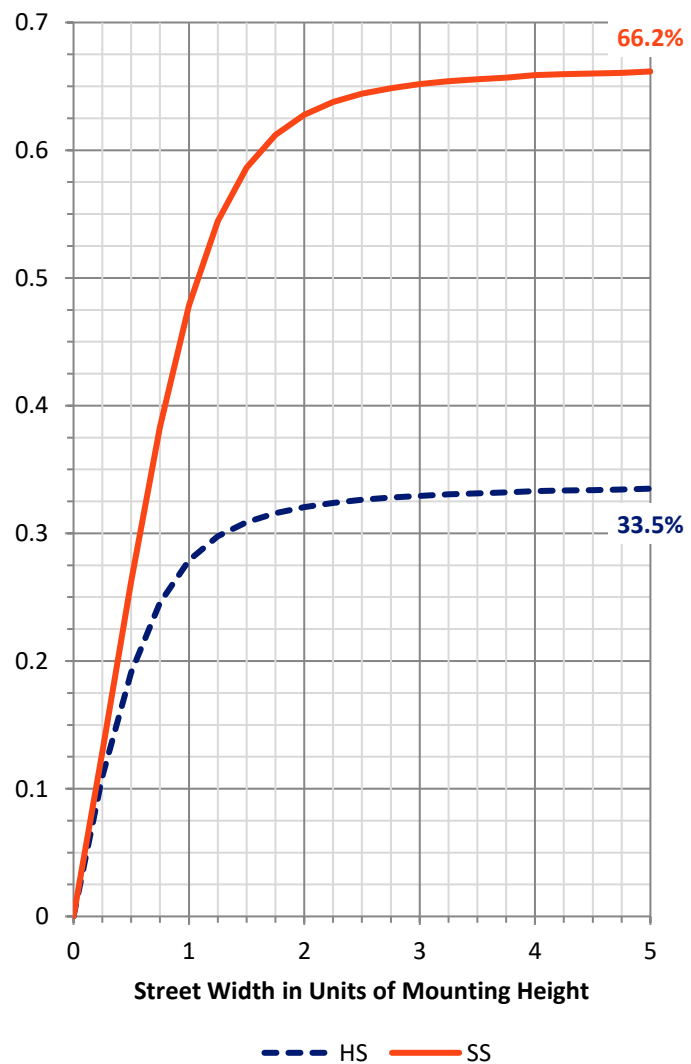
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6091.1	0.0	6091.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11934.9	0.0	11934.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	18026.0	0.0	18026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	1.9
10°-20°	1073.4	6.0
20°-30°	1823.8	10.1
30°-40°	2595.0	14.4
40°-50°	3277.4	18.2
50°-60°	3548.4	19.7
60°-70°	3300.4	18.3
70°-80°	1772.6	9.8
80°-90°	284.0	1.6
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°	18026.0	100.0
0°-180°	18026.0	100.0

Coefficient of Utilization



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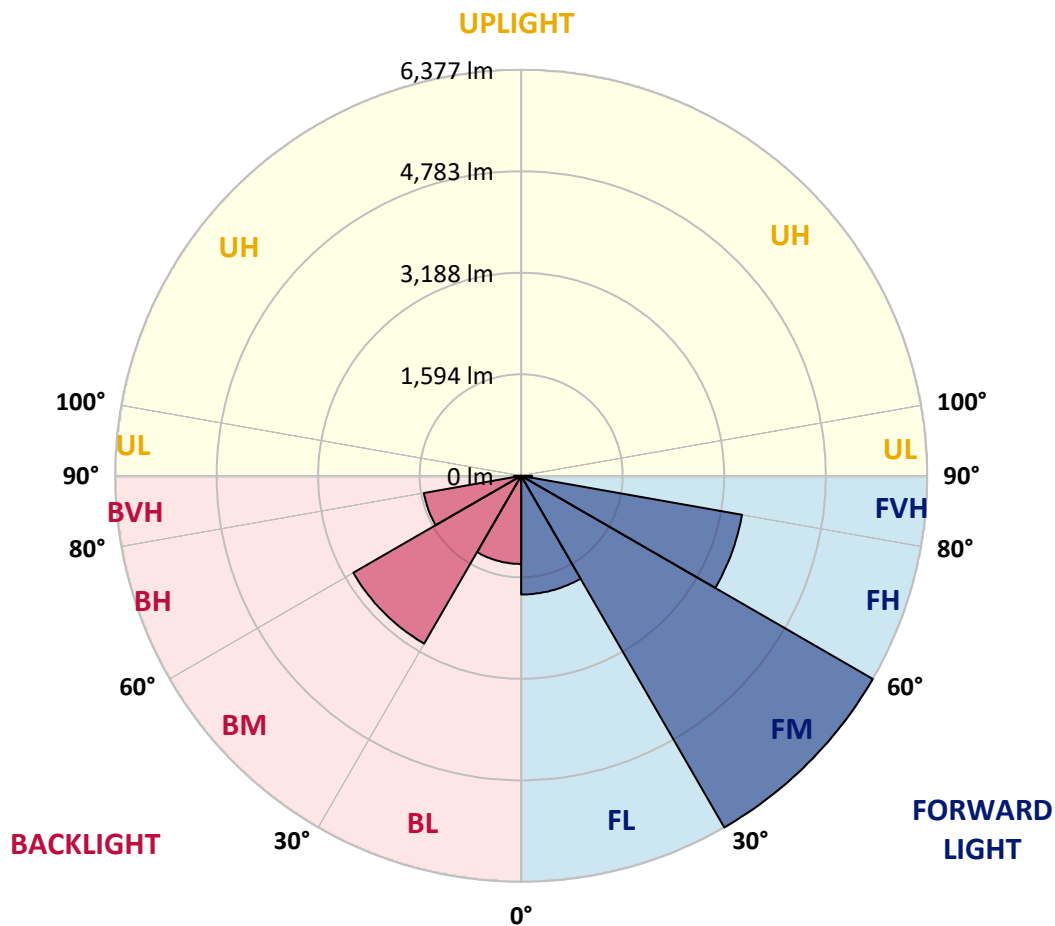
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.1	10.3			
FM	(30°-60°)	6376.9	35.4			
FH	(60°-80°)	3522.1	19.5			G2/5000
FVH	(80°-90°)	171.8	1.0			G2/225
BL	(0°-30°)	1384.2	7.7	B3/2500		
BM	(30°-60°)	3043.8	16.9	B3/5000		
BH	(60°-80°)	1550.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	112.2	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2
2.5°	3751.7	3745.0	3718.2	3721.5	3721.5	3718.2	3678.0	3661.3	3661.3	3657.9	3621.1
5°	3885.5	3875.5	3845.4	3838.7	3825.3	3808.5	3745.0	3708.1	3691.4	3688.1	3637.9
7.5°	4042.8	4029.4	3992.6	3972.5	3939.1	3895.6	3815.2	3758.3	3718.2	3714.8	3644.6
10°	4200.1	4186.7	4143.2	4106.4	4059.5	3989.3	3885.5	3801.9	3738.3	3731.6	3647.9
12.5°	4387.5	4374.1	4320.6	4273.7	4203.5	4109.8	3972.5	3858.7	3771.7	3761.7	3657.9
15°	4585.0	4564.9	4511.4	4457.8	4370.8	4250.3	4086.3	3935.7	3825.3	3808.5	3688.1
17.5°	4749.0	4722.2	4678.7	4625.1	4528.1	4387.5	4200.1	4012.7	3875.5	3862.1	3718.2
20°	4889.5	4869.5	4822.6	4772.4	4668.6	4514.7	4307.2	4089.7	3922.3	3905.6	3741.6
22.5°	5023.4	4996.6	4969.9	4933.0	4819.3	4648.6	4431.0	4183.4	3982.6	3962.5	3771.7
25°	5177.3	5147.2	5137.2	5117.1	4983.2	4809.2	4581.6	4300.5	4066.2	4042.8	3825.3
27.5°	5368.1	5334.6	5314.6	5314.6	5153.9	4973.2	4742.3	4437.7	4163.3	4143.2	3892.2
30°	5568.9	5528.8	5498.6	5498.6	5317.9	5137.2	4899.6	4574.9	4273.7	4250.3	3979.2
32.5°	5746.3	5706.1	5672.7	5669.3	5481.9	5301.2	5063.6	4725.5	4407.6	4377.5	4086.3
35°	5883.5	5846.7	5816.6	5823.3	5645.9	5468.5	5247.6	4926.3	4574.9	4541.5	4226.9
37.5°	5967.2	5953.8	5937.1	5960.5	5796.5	5629.2	5438.4	5120.5	4765.7	4735.6	4400.9
40°	6010.7	6000.6	6067.6	6097.7	5923.7	5773.1	5629.2	5321.3	4973.2	4939.7	4601.7
42.5°	6074.3	6157.9	6184.7	6178.0	6017.4	5883.5	5803.2	5538.8	5217.5	5187.4	4842.7
45°	5846.7	5826.6	5973.9	6054.2	6024.1	5953.8	5967.2	5799.8	5502.0	5471.9	5120.5
47.5°	5542.1	5515.4	5599.0	5796.5	5913.6	5980.6	6114.4	6070.9	5830.0	5803.2	5445.1
50°	4899.6	4936.4	5247.6	5512.0	5742.9	5973.9	6238.3	6362.1	6191.4	6164.6	5793.1
52.5°	4186.7	4223.5	4548.2	5157.3	5535.4	5923.7	6328.6	6653.2	6583.0	6552.8	6164.6
55°	3668.0	3748.3	4116.4	4558.2	5240.9	5766.4	6382.2	6951.1	7004.6	6977.9	6569.6
57.5°	3152.6	3212.8	3490.6	3882.2	4839.3	5491.9	6378.8	7228.9	7446.4	7419.6	6981.2
60°	2546.8	2623.8	2844.7	3266.4	4303.9	5164.0	6285.1	7446.4	7871.4	7851.4	7379.5
62.5°	2131.8	2155.3	2312.6	2677.4	3614.4	4749.0	6074.3	7563.5	8256.3	8242.9	7737.6
65°	1716.9	1720.2	1864.1	2168.7	2948.4	4233.6	5716.2	7520.0	8547.5	8554.2	7995.3
67.5°	1325.3	1342.0	1472.5	1703.5	2342.7	3564.2	5204.1	7225.5	8550.8	8567.6	7848.0
70°	917.0	930.4	1127.8	1352.1	1810.6	2841.4	4511.4	6445.7	7848.0	7861.4	7034.8
72.5°	645.9	652.6	863.4	1081.0	1415.7	2141.9	3403.6	5331.3	6690.1	6700.1	5917.0
75°	481.9	488.6	609.1	819.9	1084.3	1482.6	2326.0	4083.0	5344.7	5344.7	4672.0
77.5°	341.4	344.7	394.9	565.6	722.9	1000.7	1398.9	2674.0	3922.3	3929.0	3403.6
80°	230.9	234.3	257.7	381.5	451.8	542.2	759.7	1402.3	2473.2	2483.3	2162.0
82.5°	120.5	127.2	143.9	194.1	227.6	301.2	391.6	712.8	1368.8	1395.6	1298.5
85°	46.9	46.9	53.5	63.6	83.7	117.1	180.7	271.1	619.1	639.2	572.3
87.5°	16.7	16.7	20.1	20.1	23.4	26.8	30.1	40.2	70.3	70.3	66.9
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°	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2	3641.2
2.5°	3607.7	3607.7	3591.0	3597.7	3594.4	3587.7	3581.0	3591.0	3581.0	3557.5	3554.2
5°	3614.4	3607.7	3581.0	3577.6	3567.6	3554.2	3537.5	3544.2	3527.4	3507.3	3504.0
7.5°	3617.8	3604.4	3567.6	3554.2	3534.1	3507.3	3480.6	3480.6	3457.1	3437.1	3433.7
10°	3611.1	3594.4	3544.2	3517.4	3480.6	3440.4	3403.6	3393.6	3366.8	3343.4	3343.4
12.5°	3614.4	3591.0	3527.4	3483.9	3433.7	3383.5	3336.7	3323.3	3299.8	3276.4	3273.1
15°	3634.5	3601.1	3520.7	3463.8	3390.2	3333.3	3283.1	3273.1	3253.0	3236.3	3236.3
17.5°	3654.6	3611.1	3510.7	3430.4	3340.0	3276.4	3229.6	3229.6	3216.2	3206.1	3206.1
20°	3664.6	3614.4	3490.6	3383.5	3279.8	3212.8	3169.3	3176.0	3172.7	3169.3	3169.3
22.5°	3688.1	3621.1	3473.9	3340.0	3216.2	3145.9	3105.7	3115.8	3112.4	3112.4	3115.8
25°	3724.9	3637.9	3460.5	3299.8	3155.9	3079.0	3035.5	3042.2	3042.2	3042.2	3042.2
27.5°	3775.1	3671.3	3457.1	3263.0	3095.7	3008.7	2955.1	2955.1	2941.8	2945.1	2948.4
30°	3852.1	3734.9	3463.8	3229.6	3032.1	2921.7	2858.1	2848.0	2844.7	2851.4	2854.7
32.5°	3945.8	3821.9	3504.0	3206.1	2965.2	2824.6	2744.3	2740.9	2730.9	2730.9	2730.9
35°	4062.9	3905.6	3540.8	3202.8	2898.2	2720.9	2633.9	2623.8	2600.4	2590.3	2590.3
37.5°	4213.5	4036.1	3584.3	3179.4	2841.4	2620.5	2516.7	2483.3	2456.5	2453.1	2453.1
40°	4397.6	4183.4	3647.9	3152.6	2781.1	2516.7	2379.5	2322.6	2326.0	2339.3	2339.3
42.5°	4615.1	4364.1	3728.2	3139.2	2694.1	2409.6	2218.9	2151.9	2175.4	2188.7	2192.1
45°	4869.5	4578.3	3818.6	3122.5	2613.8	2289.1	2048.2	1964.5	1974.6	1977.9	1981.2
47.5°	5164.0	4815.9	3912.3	3109.1	2523.4	2138.5	1860.8	1750.3	1747.0	1726.9	1733.6
50°	5471.9	5066.9	4009.3	3085.7	2413.0	1961.2	1663.3	1532.8	1506.0	1475.9	1479.2
52.5°	5799.8	5324.6	4099.7	3048.8	2275.8	1780.4	1475.9	1335.3	1281.8	1248.3	1255.0
55°	6161.3	5589.0	4186.7	2992.0	2131.8	1599.7	1308.6	1164.7	1097.7	1070.9	1074.3
57.5°	6492.6	5843.3	4250.3	2921.7	1974.6	1435.7	1161.3	1020.7	977.2	973.9	977.2
60°	6813.9	6057.5	4277.1	2824.6	1813.9	1285.1	1024.1	917.0	886.9	903.6	907.0
62.5°	7085.0	6194.7	4263.7	2694.1	1649.9	1141.2	913.6	836.7	816.6	850.1	853.4
65°	7242.3	6238.3	4170.0	2506.7	1472.5	1000.7	809.9	726.2	716.2	736.3	746.3
67.5°	7034.8	5967.2	3915.6	2249.0	1275.1	870.1	709.5	642.6	625.8	642.6	642.6
70°	6234.9	5170.7	3313.2	1840.7	1057.6	743.0	615.8	568.9	555.6	568.9	565.6
72.5°	5194.1	4300.5	2610.4	1435.7	833.3	625.8	535.5	492.0	478.6	465.2	458.5
75°	4029.4	3266.4	1894.2	1054.2	629.2	502.0	448.5	408.3	374.8	388.2	381.5
77.5°	2951.8	2292.5	1342.0	729.6	451.8	388.2	351.4	321.3	297.9	324.6	321.3
80°	1900.9	1482.6	896.9	488.6	311.2	271.1	257.7	241.0	264.4	344.7	351.4
82.5°	1161.3	940.4	535.5	317.9	204.1	180.7	167.3	167.3	271.1	297.9	301.2
85°	518.7	498.7	291.2	164.0	113.8	103.7	93.7	120.5	110.4	80.3	83.7
87.5°	83.7	87.0	63.6	56.9	43.5	43.5	33.5	23.4	16.7	10.0	10.0
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)