

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: P836025

Luminaire Tested: **ARCH3-130-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16538 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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

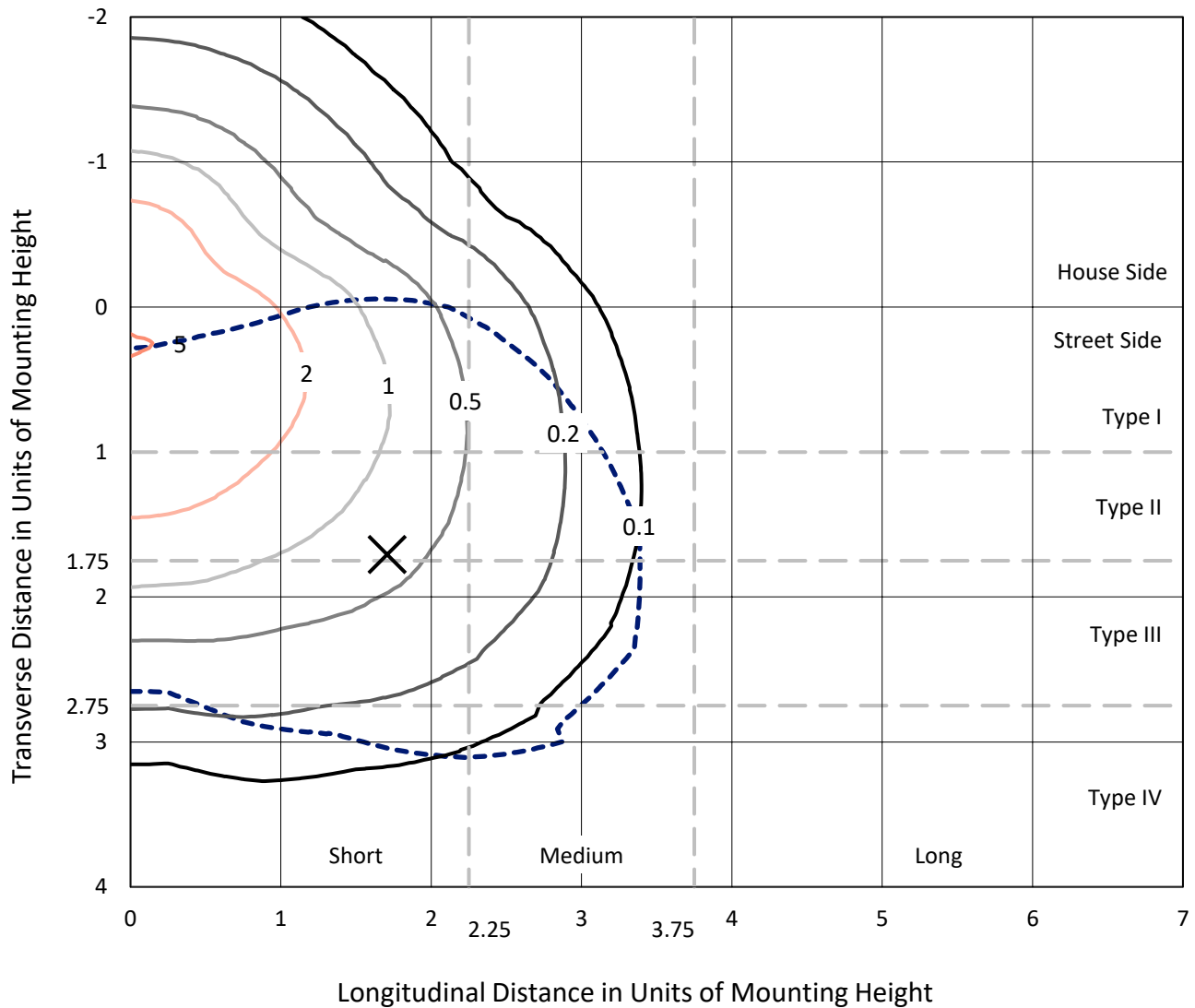


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

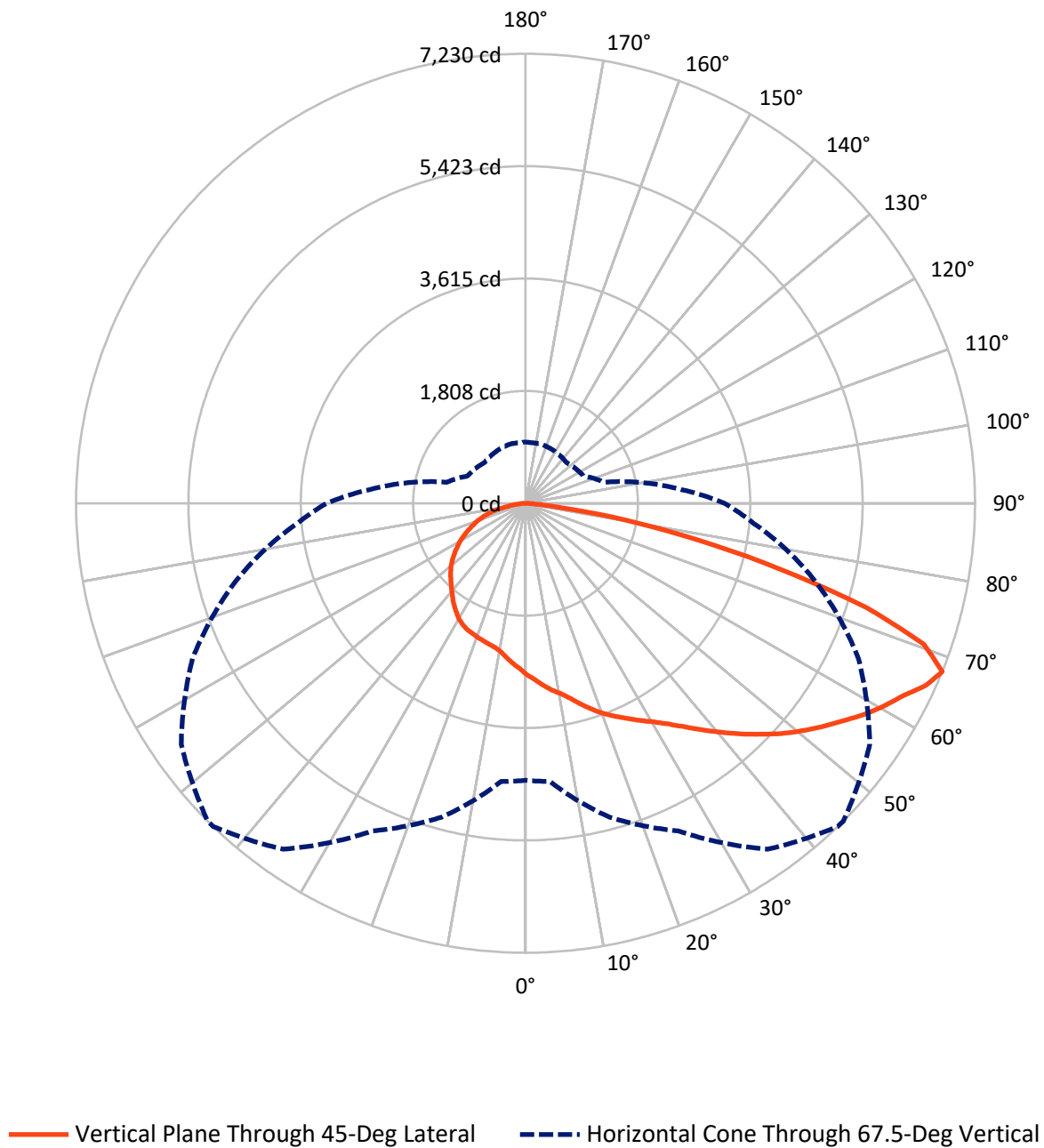


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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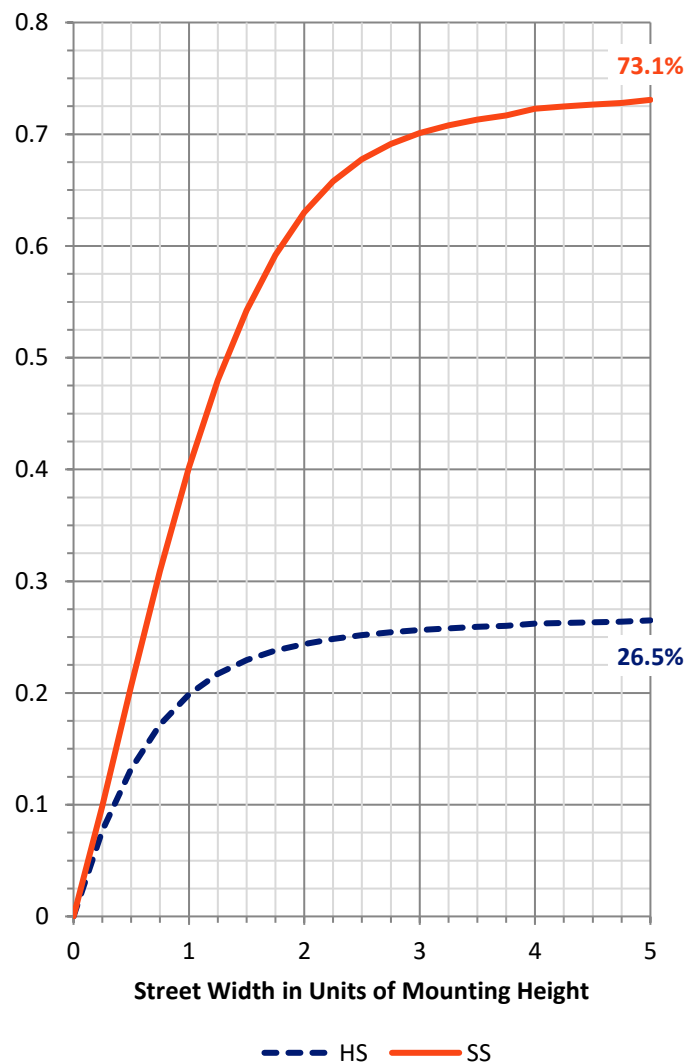
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4418.1	0.0	4418.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	12119.9	0.0	12119.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	16538.0	0.0	16538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	1.6
10°-20°	815.8	4.9
20°-30°	1408.2	8.5
30°-40°	2076.5	12.6
40°-50°	2813.3	17.0
50°-60°	3438.5	20.8
60°-70°	3546.4	21.4
70°-80°	1942.4	11.7
80°-90°	232.8	1.4
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°	16538.0	100.0
0°-180°	16538.0	100.0

Coefficient of Utilization



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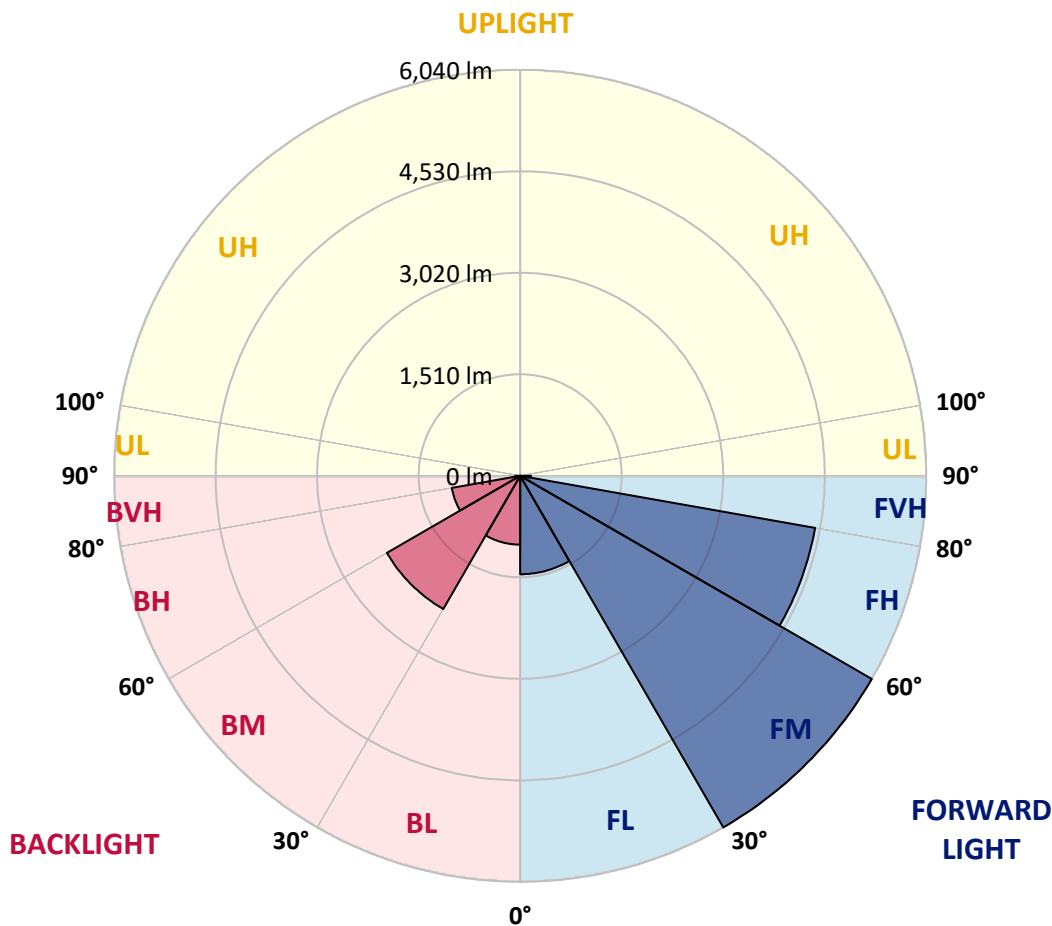
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.1	8.9			
FM	(30°-60°)	6039.8	36.5			
FH	(60°-80°)	4455.6	26.9			G2/5000
FVH	(80°-90°)	160.4	1.0			G2/225
BL	(0°-30°)	1024.0	6.2	B3/2500		
BM	(30°-60°)	2288.5	13.8	B2/2500		
BH	(60°-80°)	1033.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	72.4	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2
2.5°	2879.0	2876.5	2881.5	2863.9	2841.3	2838.8	2838.8	2823.7	2806.0	2770.8	2743.1
5°	3014.9	3009.9	3012.4	2987.2	2957.0	2941.9	2939.4	2906.7	2866.4	2811.1	2760.7
7.5°	3140.8	3135.7	3133.2	3105.5	3060.2	3035.1	3032.5	2984.7	2936.9	2851.3	2778.4
10°	3259.0	3254.0	3249.0	3211.2	3155.9	3118.1	3113.1	3052.7	2992.3	2886.6	2793.5
12.5°	3410.0	3400.0	3394.9	3349.6	3269.1	3228.8	3221.3	3140.8	3065.3	2936.9	2823.7
15°	3568.6	3561.0	3553.5	3510.7	3420.1	3367.2	3354.7	3254.0	3150.8	3002.3	2869.0
17.5°	3686.9	3679.3	3679.3	3641.6	3558.5	3498.1	3488.0	3367.2	3238.9	3062.7	2904.2
20°	3759.8	3752.3	3759.8	3737.2	3674.3	3623.9	3613.9	3480.5	3327.0	3118.1	2934.4
22.5°	3812.7	3805.1	3817.7	3807.7	3762.4	3732.2	3724.6	3593.7	3417.6	3176.0	2964.6
25°	3905.8	3905.8	3905.8	3888.2	3845.4	3835.3	3835.3	3722.1	3533.3	3251.5	3009.9
27.5°	4092.0	4082.0	4069.4	4019.1	3946.1	3943.6	3958.7	3853.0	3666.7	3349.6	3065.3
30°	4366.4	4361.3	4313.5	4207.8	4084.5	4071.9	4082.0	3993.9	3810.2	3452.8	3128.2
32.5°	4721.2	4703.6	4605.4	4446.9	4270.7	4212.8	4233.0	4139.9	3961.2	3558.5	3188.6
35°	4972.9	4977.9	4907.4	4764.0	4555.1	4401.6	4416.7	4303.4	4124.8	3676.8	3264.1
37.5°	5262.3	5279.9	5174.2	5066.0	4872.2	4610.5	4625.6	4472.0	4288.3	3825.3	3344.6
40°	5662.4	5627.2	5448.5	5320.2	5106.2	4829.4	4842.0	4660.8	4477.1	3966.2	3437.7
42.5°	5997.1	5934.2	5717.8	5554.2	5297.5	5060.9	5073.5	4864.6	4668.3	4122.2	3540.9
45°	6477.8	6304.2	5992.1	5911.6	5493.8	5287.4	5300.0	5081.1	4869.7	4288.3	3651.6
47.5°	6757.1	6480.3	6281.5	6238.7	5710.2	5521.5	5536.6	5310.1	5086.1	4477.1	3767.4
50°	6739.5	6560.9	6503.0	6397.3	5901.5	5740.4	5755.5	5546.6	5305.1	4663.3	3878.1
52.5°	6623.8	6656.5	6626.3	6450.1	6092.8	5951.8	5969.4	5780.7	5529.0	4837.0	3981.3
55°	6802.4	6825.1	6767.2	6535.7	6304.2	6163.2	6183.4	6027.3	5750.5	4990.5	4069.4
57.5°	7016.4	6935.8	6877.9	6686.7	6523.1	6392.2	6414.9	6279.0	5941.8	5113.8	4137.3
60°	7006.3	6837.7	6895.6	6696.7	6671.6	6603.6	6623.8	6485.4	6087.7	5204.4	4165.0
62.5°	6490.4	6399.8	6691.7	6623.8	6792.4	6792.4	6817.5	6611.2	6175.8	5242.1	4149.9
65°	5594.5	5599.5	6112.9	6394.8	6935.8	7051.6	7071.7	6689.2	6125.5	5131.4	4009.0
67.5°	4456.9	4489.7	5227.0	5813.4	6792.4	7227.8	7230.3	6759.7	5909.0	4819.3	3681.8
70°	3261.6	3286.7	4157.5	4869.7	6115.4	6837.7	6797.4	6560.9	5438.4	4275.8	3171.0
72.5°	2204.6	2227.2	3123.1	3739.7	5018.2	5823.5	5735.4	5798.3	4635.6	3513.2	2549.3
75°	1482.3	1510.0	2222.2	2675.2	3691.9	4421.7	4225.4	4391.5	3586.2	2660.1	1859.8
77.5°	933.7	951.3	1411.8	1754.1	2521.7	3009.9	2813.6	2816.1	2066.2	1432.0	999.1
80°	593.9	599.0	855.7	1011.7	1459.6	1809.5	1600.6	1301.1	931.2	760.0	596.4
82.5°	344.8	337.2	510.9	571.3	694.6	687.0	568.8	538.6	407.7	380.0	304.5
85°	138.4	128.3	224.0	208.9	211.4	224.0	166.1	166.1	133.4	103.2	75.5
87.5°	27.7	27.7	30.2	27.7	27.7	30.2	22.6	22.6	20.1	20.1	20.1
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°	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2
2.5°	2738.1	2733.1	2720.5	2687.8	2670.1	2660.1	2645.0	2639.9	2637.4	2639.9	2647.5
5°	2745.6	2728.0	2692.8	2639.9	2604.7	2582.1	2556.9	2546.8	2539.3	2539.3	2546.8
7.5°	2750.7	2723.0	2662.6	2584.6	2534.2	2499.0	2468.8	2456.2	2453.7	2461.3	2463.8
10°	2753.2	2712.9	2627.4	2529.2	2463.8	2418.5	2388.3	2380.7	2388.3	2403.4	2405.9
12.5°	2770.8	2715.4	2607.2	2491.5	2413.4	2368.1	2345.5	2345.5	2365.6	2393.3	2395.8
15°	2801.0	2733.1	2597.2	2461.3	2380.7	2340.5	2332.9	2345.5	2375.7	2418.5	2423.5
17.5°	2823.7	2743.1	2574.5	2421.0	2337.9	2312.8	2325.4	2355.6	2398.3	2456.2	2461.3
20°	2838.8	2743.1	2541.8	2373.2	2295.2	2290.1	2325.4	2373.2	2418.5	2486.4	2494.0
22.5°	2853.9	2738.1	2504.0	2315.3	2247.3	2262.4	2327.9	2388.3	2433.6	2506.6	2519.1
25°	2881.5	2745.6	2466.3	2257.4	2197.0	2239.8	2325.4	2398.3	2446.2	2521.7	2541.8
27.5°	2919.3	2763.3	2438.6	2204.6	2146.7	2204.6	2307.7	2395.8	2446.2	2519.1	2541.8
30°	2959.6	2783.4	2405.9	2146.7	2088.8	2154.2	2270.0	2368.1	2426.0	2494.0	2521.7
32.5°	3002.3	2806.0	2378.2	2083.8	2018.3	2086.3	2214.6	2325.4	2388.3	2451.2	2481.4
35°	3060.2	2846.3	2363.1	2033.4	1955.4	2015.8	2144.2	2270.0	2337.9	2395.8	2431.1
37.5°	3130.7	2896.6	2355.6	1983.1	1887.5	1937.8	2068.7	2202.0	2275.0	2322.8	2355.6
40°	3211.2	2959.6	2353.0	1935.3	1819.5	1857.3	1990.7	2124.0	2194.5	2232.2	2259.9
42.5°	3301.8	3030.0	2348.0	1887.5	1751.6	1781.8	1915.2	2046.0	2106.4	2139.1	2164.3
45°	3397.4	3100.5	2337.9	1829.6	1678.6	1713.8	1837.1	1952.9	2015.8	2043.5	2071.2
47.5°	3493.1	3171.0	2317.8	1764.2	1613.2	1645.9	1754.1	1854.8	1905.1	1930.3	1957.9
50°	3586.2	3233.9	2270.0	1688.7	1545.2	1575.4	1658.5	1726.4	1764.2	1784.3	1812.0
52.5°	3669.2	3276.7	2202.0	1600.6	1477.3	1492.4	1547.7	1605.6	1635.8	1638.3	1663.5
55°	3739.7	3299.3	2103.9	1510.0	1404.3	1406.8	1437.0	1482.3	1494.9	1484.8	1502.4
57.5°	3780.0	3286.7	1995.7	1416.9	1328.8	1318.7	1341.4	1364.0	1366.5	1341.4	1359.0
60°	3790.0	3228.8	1854.8	1323.7	1253.3	1225.6	1233.1	1228.1	1223.1	1213.0	1228.1
62.5°	3739.7	3105.5	1698.7	1233.1	1172.7	1130.0	1127.4	1124.9	1132.5	1135.0	1137.5
65°	3556.0	2874.0	1512.5	1140.0	1087.2	1029.3	1026.8	1057.0	1067.1	1052.0	1057.0
67.5°	3201.2	2519.1	1308.6	1031.8	979.0	928.6	948.8	966.4	984.0	979.0	984.0
70°	2697.8	2068.7	1122.4	911.0	860.7	833.0	855.7	870.8	873.3	868.2	873.3
72.5°	2121.5	1615.7	948.8	787.7	742.4	729.8	757.5	770.1	792.7	802.8	805.3
75°	1532.6	1192.9	777.6	654.3	616.6	616.6	641.7	664.4	684.5	671.9	664.4
77.5°	855.7	712.2	558.7	450.5	458.0	493.3	503.3	528.5	548.6	546.1	541.1
80°	518.4	445.4	377.5	291.9	289.4	317.1	382.5	425.3	435.4	412.7	410.2
82.5°	269.3	234.0	201.3	163.6	181.2	211.4	221.5	266.8	294.4	284.4	297.0
85°	67.9	65.4	73.0	75.5	93.1	103.2	113.2	133.4	88.1	42.8	42.8
87.5°	20.1	20.1	25.2	25.2	32.7	40.3	37.7	37.7	20.1	2.5	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)