

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: P800277

Luminaire Tested: **ARCH2-90-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11923 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 93.7
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

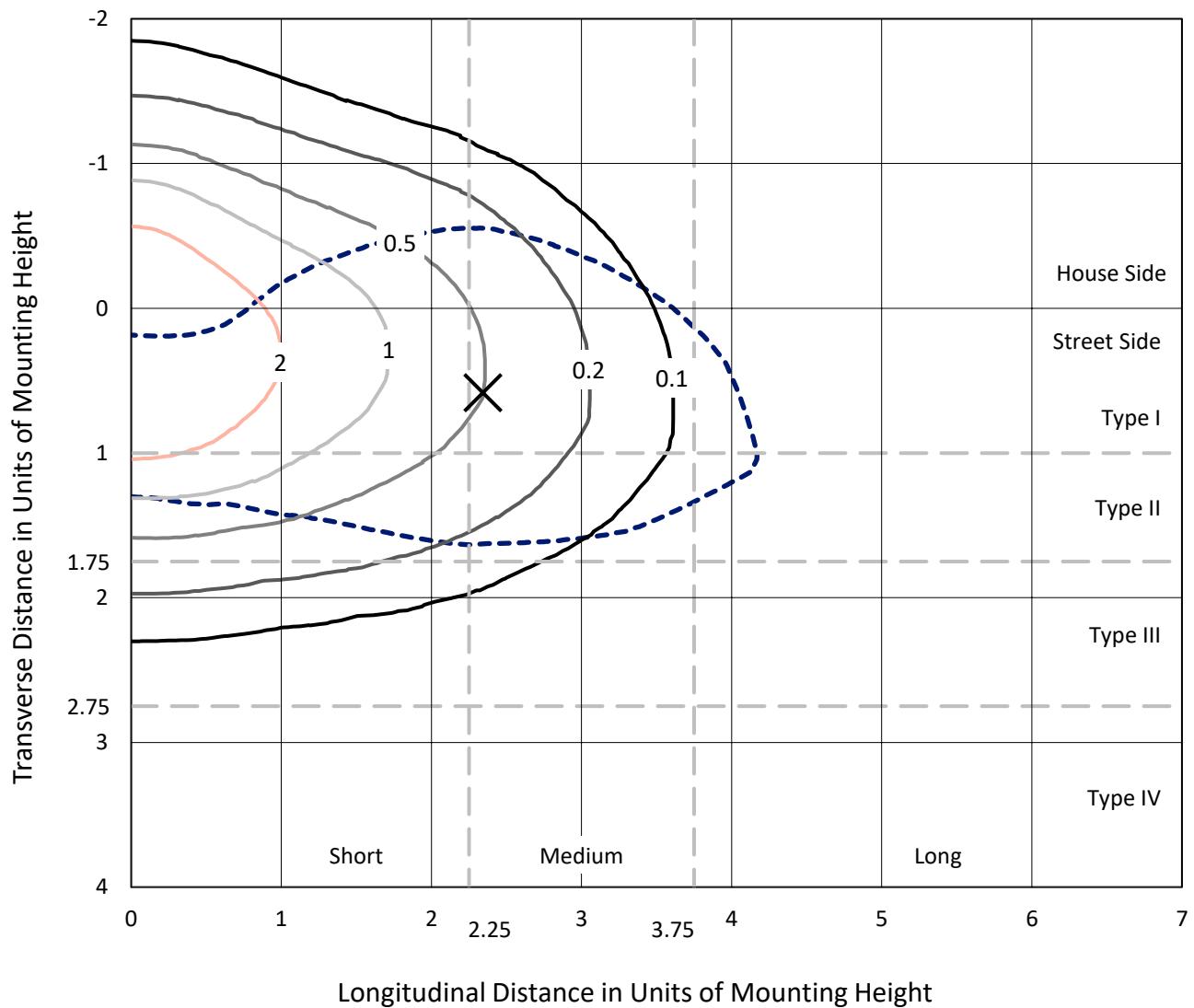


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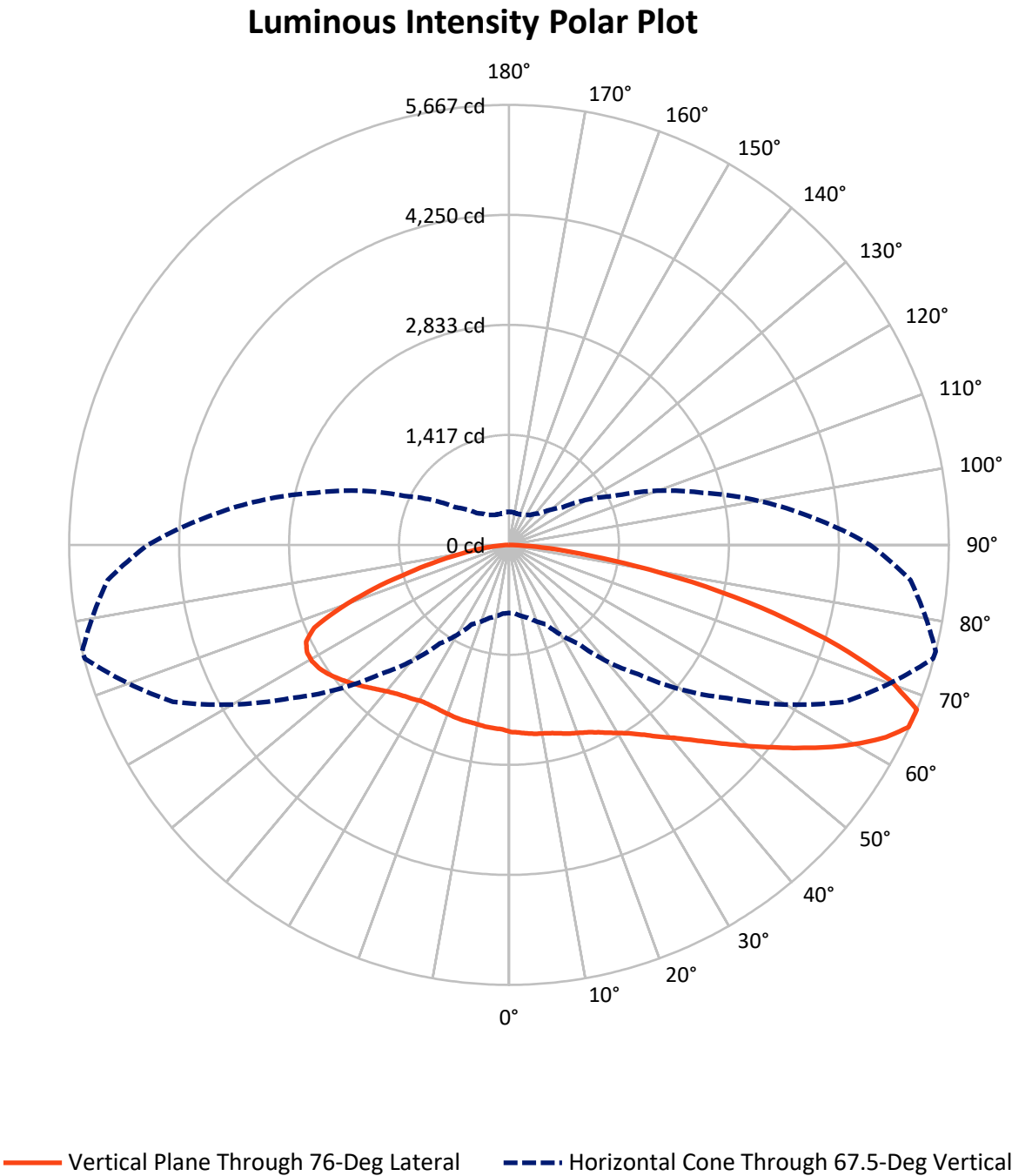
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Medium - N/A

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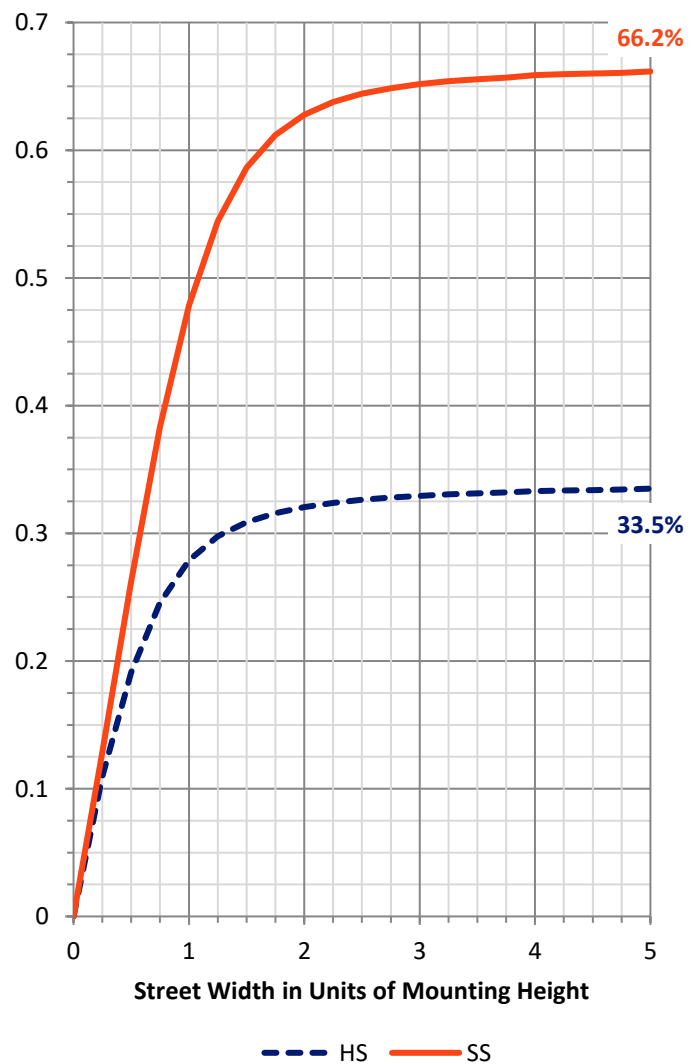
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4028.8	0.0	4028.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7894.2	0.0	7894.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	11923.0	0.0	11923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	1.9
10°-20°	710.0	6.0
20°-30°	1206.3	10.1
30°-40°	1716.4	14.4
40°-50°	2167.8	18.2
50°-60°	2347.0	19.7
60°-70°	2183.0	18.3
70°-80°	1172.5	9.8
80°-90°	187.9	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°	11923.0	100.0
0°-180°	11923.0	100.0

Coefficient of Utilization



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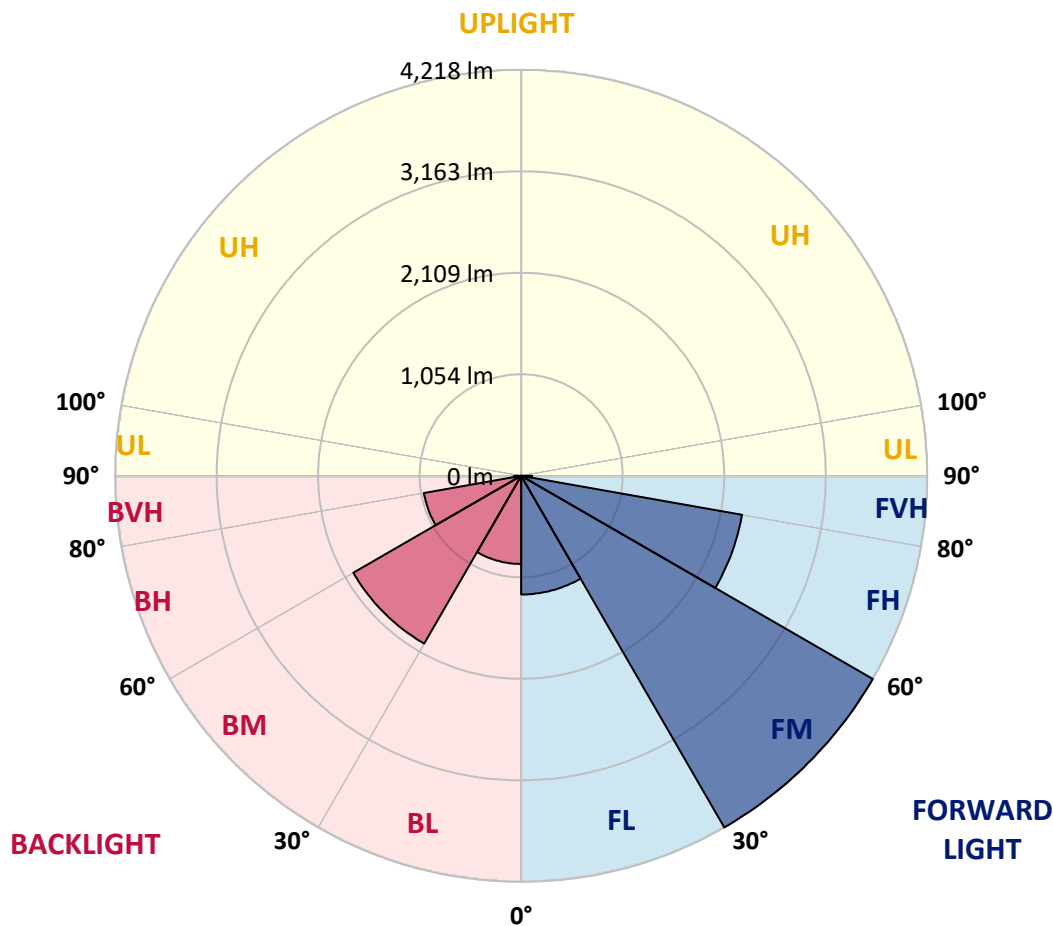
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1233.0	10.3			
FM	(30°-60°)	4217.9	35.4			
FH	(60°-80°)	2329.6	19.5			G2/5000
FVH	(80°-90°)	113.6	1.0			G2/225
BL	(0°-30°)	915.6	7.7	B2/1000		
BM	(30°-60°)	2013.3	16.9	B2/2500		
BH	(60°-80°)	1025.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	74.2	0.6			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°	76°	85°
0°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	2481.5	2477.0	2459.3	2461.5	2461.5	2459.3	2432.8	2421.7	2421.7	2419.5	2395.1
5°	2570.0	2563.4	2543.5	2539.0	2530.2	2519.1	2477.0	2452.7	2441.6	2439.4	2406.2
7.5°	2674.1	2665.2	2640.8	2627.6	2605.4	2576.7	2523.5	2485.9	2459.3	2457.1	2410.6
10°	2778.1	2769.2	2740.5	2716.1	2685.1	2638.6	2570.0	2514.7	2472.6	2468.2	2412.8
12.5°	2902.1	2893.2	2857.8	2826.8	2780.3	2718.3	2627.6	2552.3	2494.8	2488.1	2419.5
15°	3032.7	3019.4	2984.0	2948.5	2891.0	2811.3	2702.8	2603.2	2530.2	2519.1	2439.4
17.5°	3141.1	3123.4	3094.6	3059.2	2995.0	2902.1	2778.1	2654.1	2563.4	2554.5	2459.3
20°	3234.1	3220.8	3189.8	3156.6	3088.0	2986.2	2848.9	2705.0	2594.4	2583.3	2474.8
22.5°	3322.6	3304.9	3287.2	3262.9	3187.6	3074.7	2930.8	2767.0	2634.2	2620.9	2494.8
25°	3424.5	3404.5	3397.9	3384.6	3296.1	3181.0	3030.4	2844.5	2689.5	2674.1	2530.2
27.5°	3550.6	3528.5	3515.2	3515.2	3409.0	3289.4	3136.7	2935.3	2753.7	2740.5	2574.4
30°	3683.5	3656.9	3637.0	3637.0	3517.4	3397.9	3240.7	3026.0	2826.8	2811.3	2632.0
32.5°	3800.8	3774.2	3752.1	3749.9	3625.9	3506.4	3349.2	3125.6	2915.3	2895.4	2702.8
35°	3891.5	3867.2	3847.3	3851.7	3734.4	3617.1	3471.0	3258.5	3026.0	3003.9	2795.8
37.5°	3946.9	3938.0	3927.0	3942.5	3834.0	3723.3	3597.1	3386.8	3152.2	3132.3	2910.9
40°	3975.7	3969.0	4013.3	4033.2	3918.1	3818.5	3723.3	3519.7	3289.4	3267.3	3043.7
42.5°	4017.7	4073.1	4090.8	4086.3	3980.1	3891.5	3838.4	3663.5	3451.0	3431.1	3203.1
45°	3867.2	3853.9	3951.3	4004.4	3984.5	3938.0	3946.9	3836.2	3639.2	3619.3	3386.8
47.5°	3665.8	3648.0	3703.4	3834.0	3911.5	3955.7	4044.3	4015.5	3856.1	3838.4	3601.6
50°	3240.7	3265.1	3471.0	3645.8	3798.6	3951.3	4126.2	4208.1	4095.2	4077.5	3831.8
52.5°	2769.2	2793.6	3008.3	3411.2	3661.3	3918.1	4186.0	4400.7	4354.2	4334.3	4077.5
55°	2426.1	2479.3	2722.8	3015.0	3466.5	3814.1	4221.4	4597.7	4633.1	4615.4	4345.3
57.5°	2085.2	2125.1	2308.8	2567.8	3200.9	3632.6	4219.2	4781.4	4925.3	4907.6	4617.6
60°	1684.6	1735.5	1881.6	2160.5	2846.7	3415.6	4157.2	4925.3	5206.4	5193.2	4881.0
62.5°	1410.1	1425.6	1529.6	1770.9	2390.7	3141.1	4017.7	5002.8	5461.0	5452.1	5117.9
65°	1135.6	1137.8	1233.0	1434.4	1950.2	2800.2	3780.9	4974.0	5653.6	5658.0	5288.3
67.5°	876.6	887.7	974.0	1126.7	1549.5	2357.5	3442.2	4779.2	5655.8	5666.9	5190.9
70°	606.5	615.4	746.0	894.3	1197.6	1879.4	2984.0	4263.4	5190.9	5199.8	4653.0
72.5°	427.2	431.7	571.1	715.0	936.4	1416.7	2251.3	3526.3	4425.0	4431.7	3913.7
75°	318.8	323.2	402.9	542.3	717.2	980.6	1538.5	2700.6	3535.2	3535.2	3090.2
77.5°	225.8	228.0	261.2	374.1	478.1	661.9	925.3	1768.7	2594.4	2598.8	2251.3
80°	152.7	155.0	170.4	252.4	298.8	358.6	502.5	927.5	1635.9	1642.5	1430.0
82.5°	79.7	84.1	95.2	128.4	150.5	199.2	259.0	471.5	905.4	923.1	858.9
85°	31.0	31.0	35.4	42.1	55.3	77.5	119.5	179.3	409.5	422.8	378.5
87.5°	11.1	11.1	13.3	13.3	15.5	17.7	19.9	26.6	46.5	46.5	44.3
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°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	2386.3	2386.3	2375.2	2379.6	2377.4	2373.0	2368.6	2375.2	2368.6	2353.1	2350.9
5°	2390.7	2386.3	2368.6	2366.4	2359.7	2350.9	2339.8	2344.2	2333.2	2319.9	2317.7
7.5°	2392.9	2384.1	2359.7	2350.9	2337.6	2319.9	2302.2	2302.2	2286.7	2273.4	2271.2
10°	2388.5	2377.4	2344.2	2326.5	2302.2	2275.6	2251.3	2244.6	2226.9	2211.4	2211.4
12.5°	2390.7	2375.2	2333.2	2304.4	2271.2	2238.0	2207.0	2198.1	2182.6	2167.1	2164.9
15°	2404.0	2381.9	2328.7	2291.1	2242.4	2204.8	2171.6	2164.9	2151.6	2140.6	2140.6
17.5°	2417.3	2388.5	2322.1	2269.0	2209.2	2167.1	2136.1	2136.1	2127.3	2120.6	2120.6
20°	2423.9	2390.7	2308.8	2238.0	2169.3	2125.1	2096.3	2100.7	2098.5	2096.3	2096.3
22.5°	2439.4	2395.1	2297.7	2209.2	2127.3	2080.8	2054.2	2060.9	2058.7	2058.7	2060.9
25°	2463.8	2406.2	2288.9	2182.6	2087.4	2036.5	2007.8	2012.2	2012.2	2012.2	2012.2
27.5°	2497.0	2428.3	2286.7	2158.3	2047.6	1990.0	1954.6	1954.6	1945.8	1948.0	1950.2
30°	2547.9	2470.4	2291.1	2136.1	2005.5	1932.5	1890.4	1883.8	1881.6	1886.0	1888.2
32.5°	2609.9	2528.0	2317.7	2120.6	1961.3	1868.3	1815.2	1813.0	1806.3	1806.3	1806.3
35°	2687.3	2583.3	2342.0	2118.4	1917.0	1799.7	1742.1	1735.5	1720.0	1713.3	1713.3
37.5°	2786.9	2669.6	2370.8	2102.9	1879.4	1733.3	1664.6	1642.5	1624.8	1622.6	1622.6
40°	2908.7	2767.0	2412.8	2085.2	1839.5	1664.6	1573.9	1536.3	1538.5	1547.3	1547.3
42.5°	3052.6	2886.6	2466.0	2076.4	1782.0	1593.8	1467.6	1423.4	1438.9	1447.7	1449.9
45°	3220.8	3028.2	2525.7	2065.3	1728.8	1514.1	1354.7	1299.4	1306.0	1308.3	1310.5
47.5°	3415.6	3185.4	2587.7	2056.5	1669.1	1414.5	1230.8	1157.7	1155.5	1142.2	1146.7
50°	3619.3	3351.4	2651.9	2041.0	1596.0	1297.2	1100.2	1013.8	996.1	976.2	978.4
52.5°	3836.2	3521.9	2711.7	2016.6	1505.3	1177.6	976.2	883.2	847.8	825.7	830.1
55°	4075.3	3696.7	2769.2	1979.0	1410.1	1058.1	865.5	770.3	726.1	708.4	710.6
57.5°	4294.4	3865.0	2811.3	1932.5	1306.0	949.6	768.1	675.2	646.4	644.2	646.4
60°	4506.9	4006.7	2829.0	1868.3	1199.8	850.0	677.4	606.5	586.6	597.7	599.9
62.5°	4686.2	4097.4	2820.2	1782.0	1091.3	754.8	604.3	553.4	540.1	562.3	564.5
65°	4790.3	4126.2	2758.2	1658.0	974.0	661.9	535.7	480.4	473.7	487.0	493.6
67.5°	4653.0	3946.9	2589.9	1487.6	843.4	575.5	469.3	425.0	413.9	425.0	425.0
70°	4124.0	3420.0	2191.5	1217.5	699.5	491.4	407.3	376.3	367.5	376.3	374.1
72.5°	3435.5	2844.5	1726.6	949.6	551.2	413.9	354.2	325.4	316.5	307.7	303.3
75°	2665.2	2160.5	1252.9	697.3	416.2	332.0	296.6	270.1	247.9	256.8	252.4
77.5°	1952.4	1516.3	887.7	482.6	298.8	256.8	232.4	212.5	197.0	214.7	212.5
80°	1257.3	980.6	593.3	323.2	205.9	179.3	170.4	159.4	174.9	228.0	232.4
82.5°	768.1	622.0	354.2	210.3	135.0	119.5	110.7	110.7	179.3	197.0	199.2
85°	343.1	329.8	192.6	108.5	75.3	68.6	62.0	79.7	73.0	53.1	55.3
87.5°	55.3	57.6	42.1	37.6	28.8	28.8	22.1	15.5	11.1	6.6	6.6
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)