

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: P835875

Luminaire Tested: **ARCH3-110-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835875
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: ARCH3-110-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14965 lumens
Efficiency: N/A
Efficacy: 133.7 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): 111.9
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

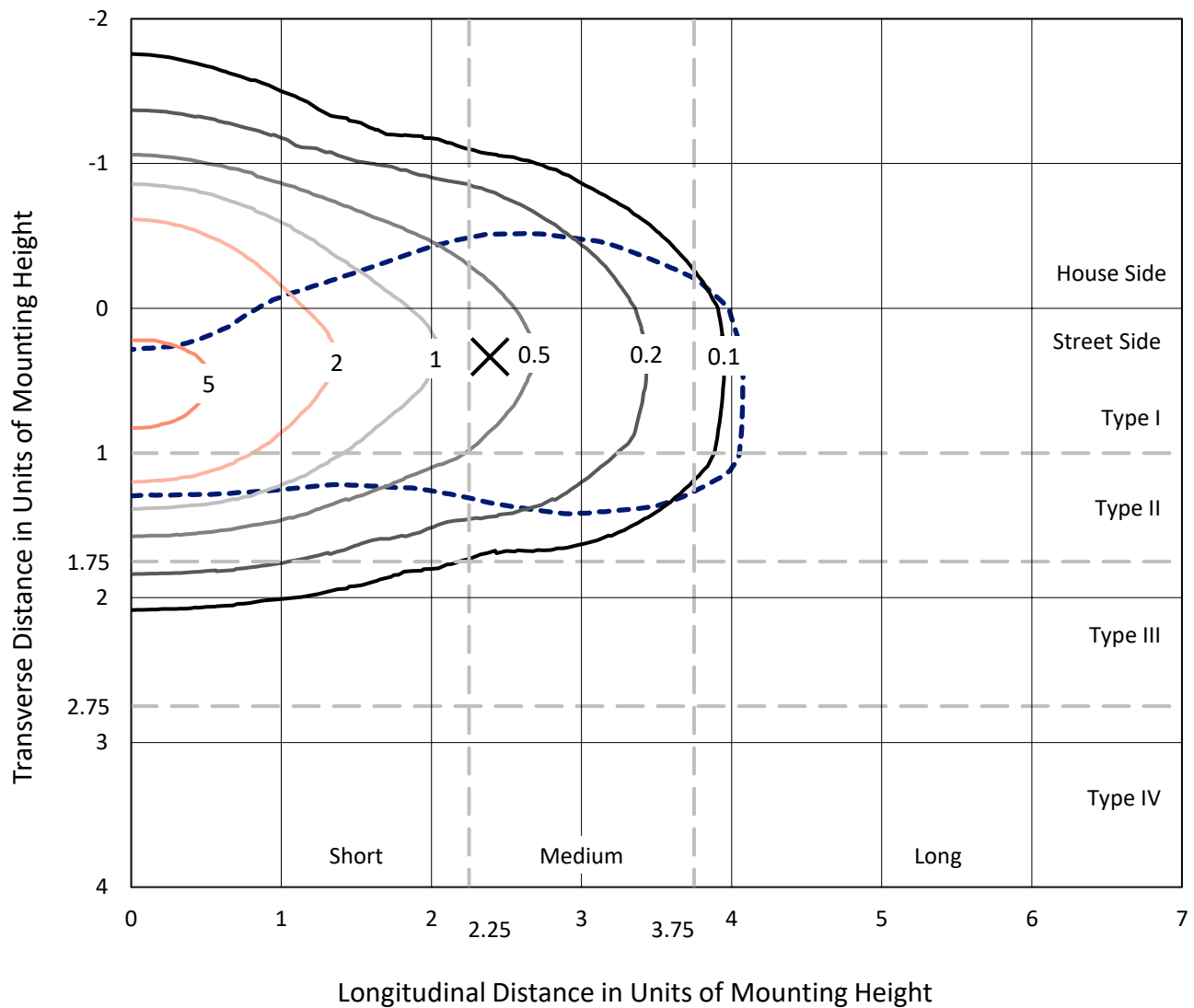


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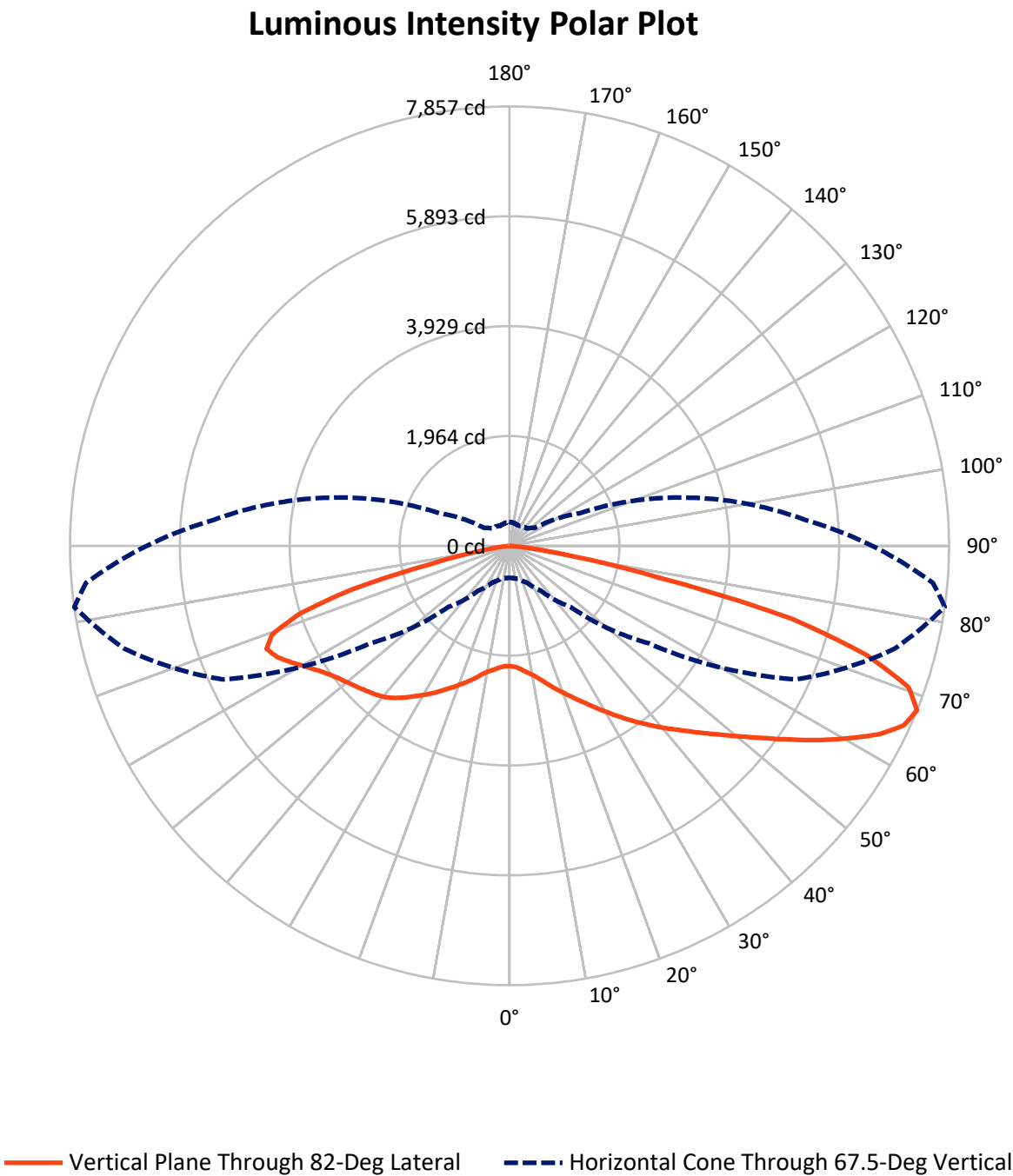
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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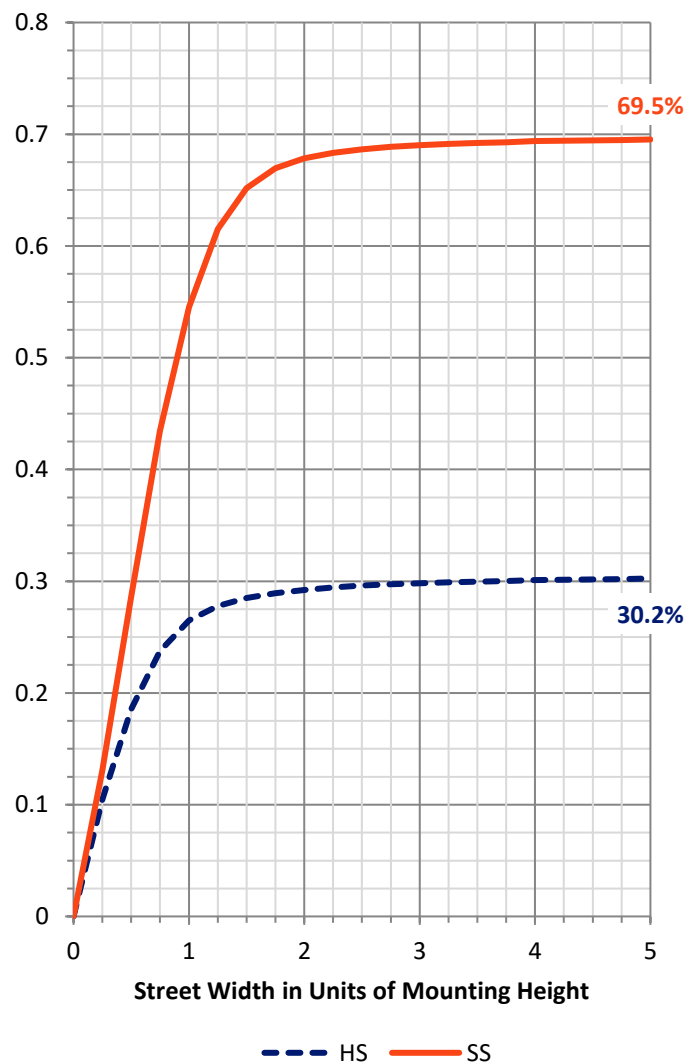
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4557.4	0.0	4557.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10407.5	0.0	10407.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	14965.0	0.0	14965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.5
10°-20°	800.8	5.4
20°-30°	1609.4	10.8
30°-40°	2528.2	16.9
40°-50°	3079.8	20.6
50°-60°	2910.0	19.4
60°-70°	2403.0	16.1
70°-80°	1308.5	8.7
80°-90°	102.9	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°	14965.0	100.0
0°-180°	14965.0	100.0

Coefficient of Utilization



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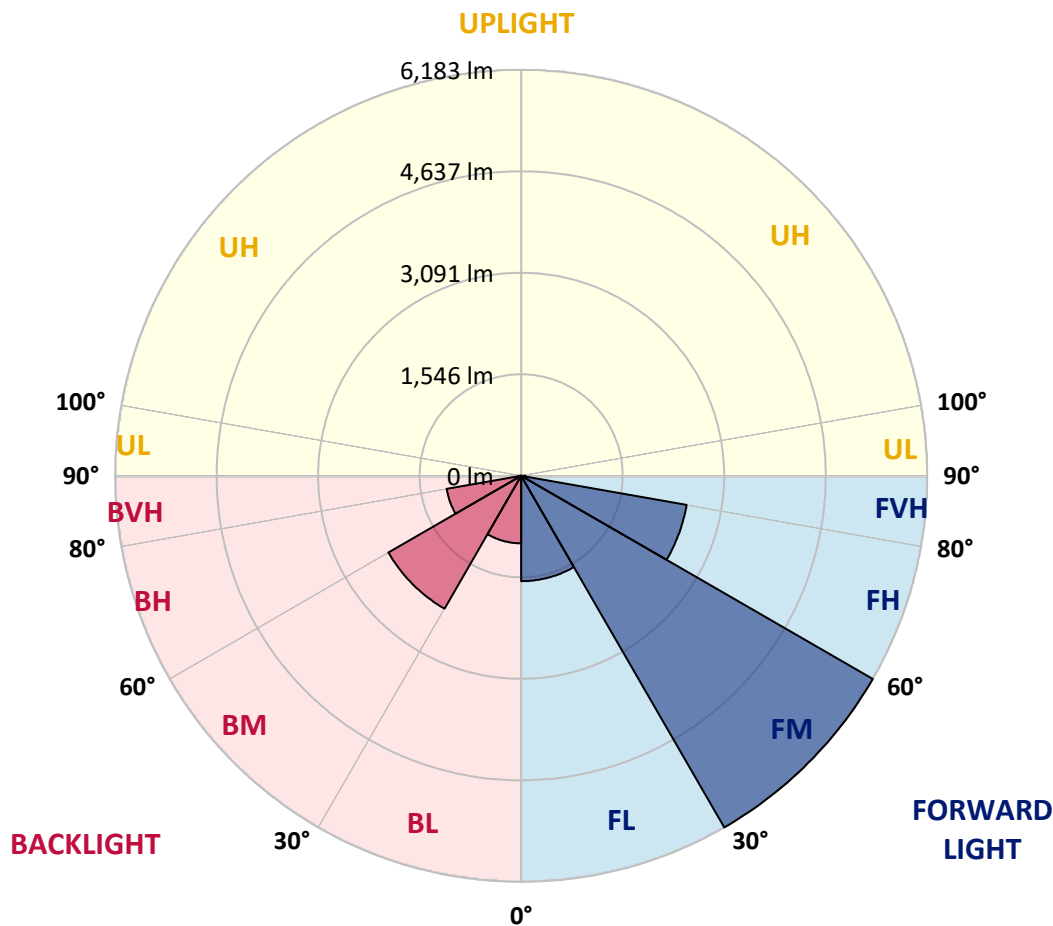
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.8	10.7			
FM	(30°-60°)	6182.7	41.3			
FH	(60°-80°)	2558.1	17.1			G2/5000
FVH	(80°-90°)	62.0	0.4			G1/100
BL	(0°-30°)	1027.7	6.9	B3/2500		
BM	(30°-60°)	2335.3	15.6	B2/2500		
BH	(60°-80°)	1153.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	40.9	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°	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2
2.5°	2249.0	2249.0	2266.4	2266.4	2251.2	2227.3	2220.7	2194.7	2170.8	2170.8	2172.9
5°	2464.1	2461.9	2475.0	2457.6	2420.7	2372.9	2340.3	2283.8	2236.0	2220.7	2218.6
7.5°	2727.0	2724.9	2731.4	2703.1	2633.6	2555.4	2490.2	2398.9	2320.7	2288.1	2279.4
10°	3020.4	3018.2	3011.7	2963.9	2870.5	2748.8	2651.0	2525.0	2407.6	2355.5	2344.6
12.5°	3357.2	3352.8	3337.6	3268.1	3139.9	2983.4	2842.2	2679.2	2522.8	2451.1	2427.2
15°	3733.1	3726.6	3698.3	3613.6	3441.9	3244.2	3061.7	2853.1	2661.9	2568.4	2535.8
17.5°	4128.6	4128.6	4085.1	3959.1	3767.9	3522.3	3296.4	3031.3	2807.4	2692.3	2653.2
20°	4530.6	4528.4	4474.1	4322.0	4096.0	3813.5	3526.7	3235.5	2957.4	2818.3	2770.5
22.5°	4954.3	4950.0	4882.6	4708.8	4439.3	4119.9	3785.3	3437.6	3122.5	2955.2	2894.4
25°	5441.0	5434.5	5352.0	5139.0	4819.6	4458.9	4076.4	3674.4	3311.6	3107.3	3035.6
27.5°	5958.2	5949.5	5851.7	5604.0	5254.2	4819.6	4398.0	3948.2	3520.2	3276.8	3196.4
30°	6418.9	6412.3	6305.9	6051.6	5649.6	5178.1	4704.4	4222.0	3739.6	3457.1	3357.2
32.5°	6766.5	6766.5	6670.9	6421.0	6003.8	5521.4	5013.0	4480.6	3967.8	3650.5	3533.2
35°	6977.3	6983.8	6901.3	6701.3	6308.0	5845.2	5332.4	4784.8	4211.2	3857.0	3730.9
37.5°	7007.7	7029.5	6981.7	6846.9	6518.8	6114.7	5645.3	5078.2	4463.2	4065.6	3924.3
40°	6866.5	6881.7	6883.9	6831.7	6605.7	6308.0	5921.3	5388.9	4730.5	4285.0	4122.1
42.5°	6584.0	6594.9	6614.4	6629.6	6542.7	6392.8	6132.0	5677.9	5015.1	4508.9	4317.6
45°	6219.0	6216.8	6249.4	6314.6	6310.2	6345.0	6249.4	5940.8	5310.7	4763.1	4534.9
47.5°	5673.5	5662.7	5777.8	5925.6	5999.5	6162.5	6251.5	6147.2	5632.3	5043.4	4782.6
50°	4819.6	4808.7	5060.8	5408.4	5625.7	5873.5	6132.0	6271.1	5969.1	5358.5	5052.1
52.5°	3780.9	3770.1	4089.5	4697.9	5171.6	5532.3	5890.8	6299.4	6288.5	5710.5	5356.3
55°	2811.8	2803.1	3113.8	3772.2	4539.3	5136.8	5595.3	6225.5	6588.4	6114.7	5725.7
57.5°	1981.7	1977.4	2246.8	2792.2	3726.6	4654.4	5310.7	6082.1	6864.3	6553.6	6142.9
60°	1390.7	1384.2	1579.7	2001.3	2818.3	3926.5	5028.2	5890.8	7070.7	6986.0	6586.2
62.5°	936.5	932.2	1071.3	1423.3	2001.3	3022.6	4600.1	5762.6	7188.1	7420.6	7033.8
65°	710.6	708.4	771.4	964.8	1416.8	2170.8	3920.0	5747.4	7203.3	7746.5	7414.1
67.5°	573.7	575.8	610.6	721.4	980.0	1542.8	3039.9	5651.8	7122.9	7857.4	7598.8
70°	469.4	469.4	484.6	558.4	723.6	1040.8	2123.0	5217.2	6899.1	7568.4	7379.3
72.5°	358.5	360.7	408.5	452.0	545.4	730.1	1360.3	4317.6	6371.1	6673.1	6529.7
75°	284.7	282.5	310.7	371.6	423.7	521.5	834.4	3096.4	5421.5	5215.1	5123.8
77.5°	204.3	202.1	223.8	276.0	321.6	369.4	497.6	1562.3	2948.7	2709.7	2642.3
80°	139.1	134.7	154.3	191.2	212.9	217.3	243.4	599.7	1286.4	1212.5	1197.3
82.5°	71.7	71.7	82.6	108.6	110.8	113.0	108.6	193.4	425.9	397.6	380.3
85°	28.2	28.2	30.4	36.9	36.9	39.1	39.1	50.0	45.6	43.5	41.3
87.5°	2.2	2.2	4.3	4.3	6.5	6.5	6.5	8.7	10.9	10.9	10.9
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°	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2	2151.2
2.5°	2168.6	2159.9	2131.7	2125.1	2120.8	2114.3	2116.4	2101.2	2094.7	2096.9	2088.2
5°	2207.7	2192.5	2157.7	2142.5	2138.2	2131.7	2138.2	2127.3	2116.4	2120.8	2116.4
7.5°	2262.0	2240.3	2196.8	2181.6	2179.5	2172.9	2181.6	2172.9	2164.2	2168.6	2159.9
10°	2318.5	2290.3	2242.5	2227.3	2227.3	2225.1	2233.8	2220.7	2212.1	2214.2	2209.9
12.5°	2401.1	2364.2	2312.0	2299.0	2292.5	2299.0	2301.1	2283.8	2268.5	2270.7	2264.2
15°	2501.1	2459.8	2403.3	2383.7	2379.4	2377.2	2368.5	2346.8	2327.2	2325.0	2318.5
17.5°	2609.7	2557.6	2490.2	2470.6	2451.1	2444.6	2422.8	2394.6	2364.2	2364.2	2355.5
20°	2714.0	2655.3	2574.9	2546.7	2518.4	2492.4	2455.4	2409.8	2370.7	2364.2	2355.5
22.5°	2827.0	2757.5	2664.0	2622.7	2572.8	2520.6	2457.6	2396.8	2346.8	2335.9	2329.4
25°	2953.0	2866.1	2755.3	2694.4	2614.0	2533.6	2440.2	2362.0	2303.3	2285.9	2281.6
27.5°	3092.1	2987.8	2853.1	2764.0	2646.6	2520.6	2401.1	2307.7	2236.0	2214.2	2207.7
30°	3233.3	3109.5	2942.2	2811.8	2646.6	2479.3	2329.4	2220.7	2138.2	2107.8	2103.4
32.5°	3374.6	3235.5	3022.6	2837.9	2620.6	2409.8	2236.0	2107.8	2014.3	1977.4	1986.1
35°	3544.1	3374.6	3096.4	2848.7	2577.1	2325.0	2129.5	1979.5	1883.9	1851.3	1857.9
37.5°	3720.1	3513.6	3155.1	2840.0	2516.3	2229.4	2010.0	1864.4	1744.9	1688.4	1694.9
40°	3872.2	3639.7	3196.4	2809.6	2438.0	2120.8	1892.6	1701.4	1536.3	1481.9	1475.4
42.5°	4015.6	3733.1	3218.1	2764.0	2348.9	1994.8	1725.3	1479.8	1314.6	1247.3	1249.4
45°	4165.5	3824.4	3209.4	2703.1	2238.1	1847.0	1510.2	1262.5	1116.9	1056.0	1058.2
47.5°	4337.2	3922.2	3200.7	2637.9	2103.4	1655.8	1303.8	1071.3	945.2	901.8	897.4
50°	4519.7	4030.8	3189.9	2557.6	1953.5	1442.8	1099.5	893.1	786.6	758.4	751.8
52.5°	4726.1	4148.1	3183.4	2461.9	1773.1	1216.8	917.0	736.6	664.9	645.4	643.2
55°	4973.9	4285.0	3192.0	2346.8	1555.8	1003.9	762.7	634.5	586.7	575.8	573.7
57.5°	5275.9	4461.0	3218.1	2212.1	1327.7	819.2	649.7	571.5	541.1	532.4	532.4
60°	5604.0	4661.0	3265.9	2059.9	1099.5	675.8	575.8	521.5	508.5	519.3	519.3
62.5°	5958.2	4895.6	3350.7	1875.2	886.6	571.5	517.2	480.2	471.5	493.3	495.4
65°	6286.3	5123.8	3405.0	1653.6	704.0	495.4	471.5	438.9	443.3	465.0	462.8
67.5°	6488.4	5312.8	3328.9	1375.5	558.4	438.9	423.7	395.5	406.3	423.7	425.9
70°	6364.5	5206.4	2953.0	1038.7	436.8	382.4	371.6	354.2	362.9	384.6	393.3
72.5°	5758.3	4663.1	2296.8	701.9	352.0	321.6	325.9	317.2	328.1	347.7	367.2
75°	4674.0	3524.5	1540.6	449.8	278.1	273.8	280.3	273.8	278.1	297.7	308.6
77.5°	2440.2	1718.8	767.0	280.3	206.4	212.9	223.8	226.0	239.0	243.4	247.7
80°	1138.6	773.6	319.4	156.5	136.9	149.9	171.7	173.8	178.2	184.7	186.9
82.5°	371.6	232.5	147.8	84.7	78.2	84.7	110.8	132.5	134.7	147.8	147.8
85°	39.1	23.9	32.6	34.8	30.4	36.9	50.0	47.8	21.7	13.0	13.0
87.5°	10.9	8.7	10.9	10.9	8.7	8.7	6.5	2.2	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)