

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: P799283

Luminaire Tested: **ARCH2-100-740-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13342 lumens
Efficiency: N/A
Efficacy: 129.2 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): 103.3
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

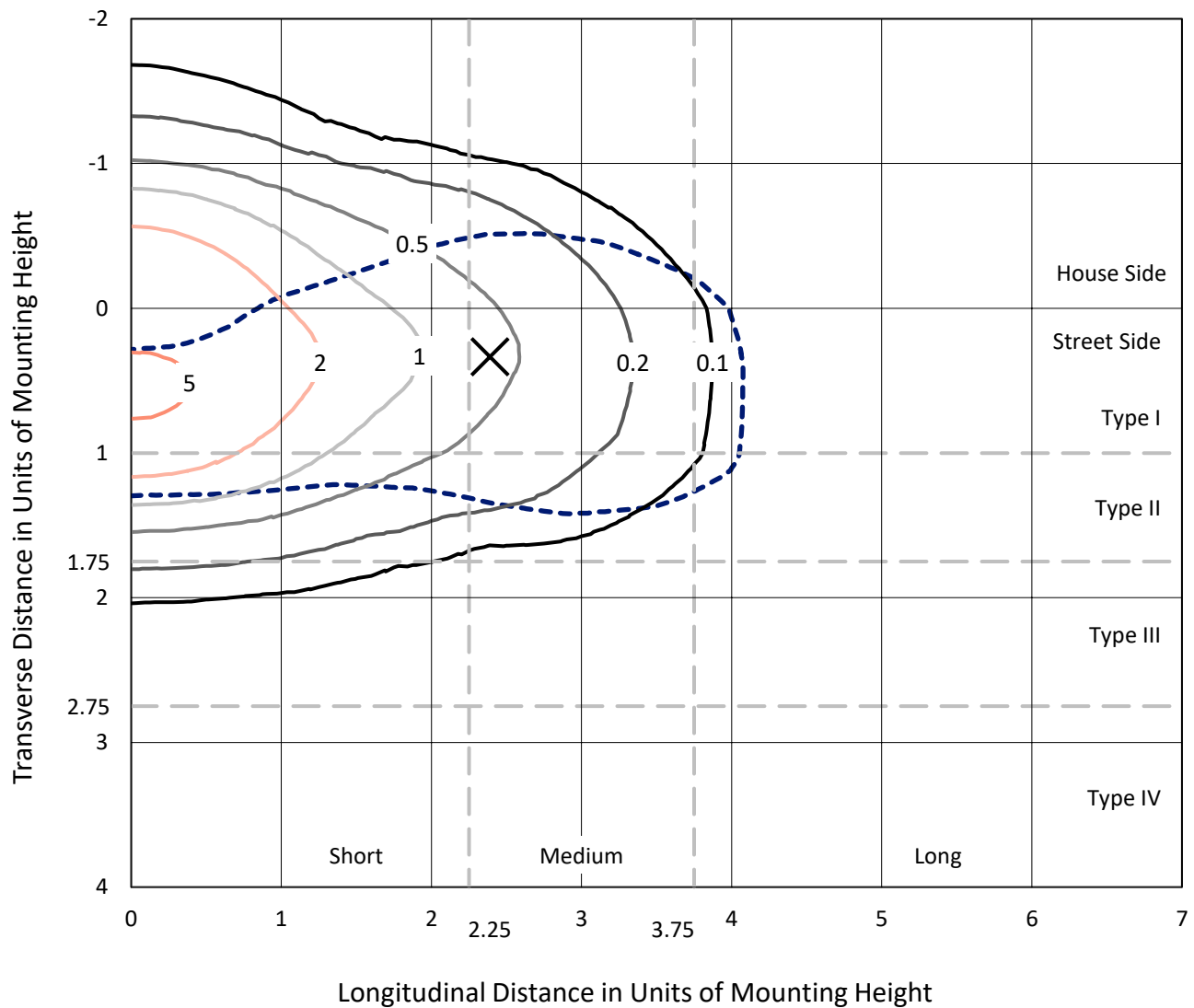


REPORT NUMBER: P799283

CATALOG NUMBER: ARCH2-100-740-U-T2R

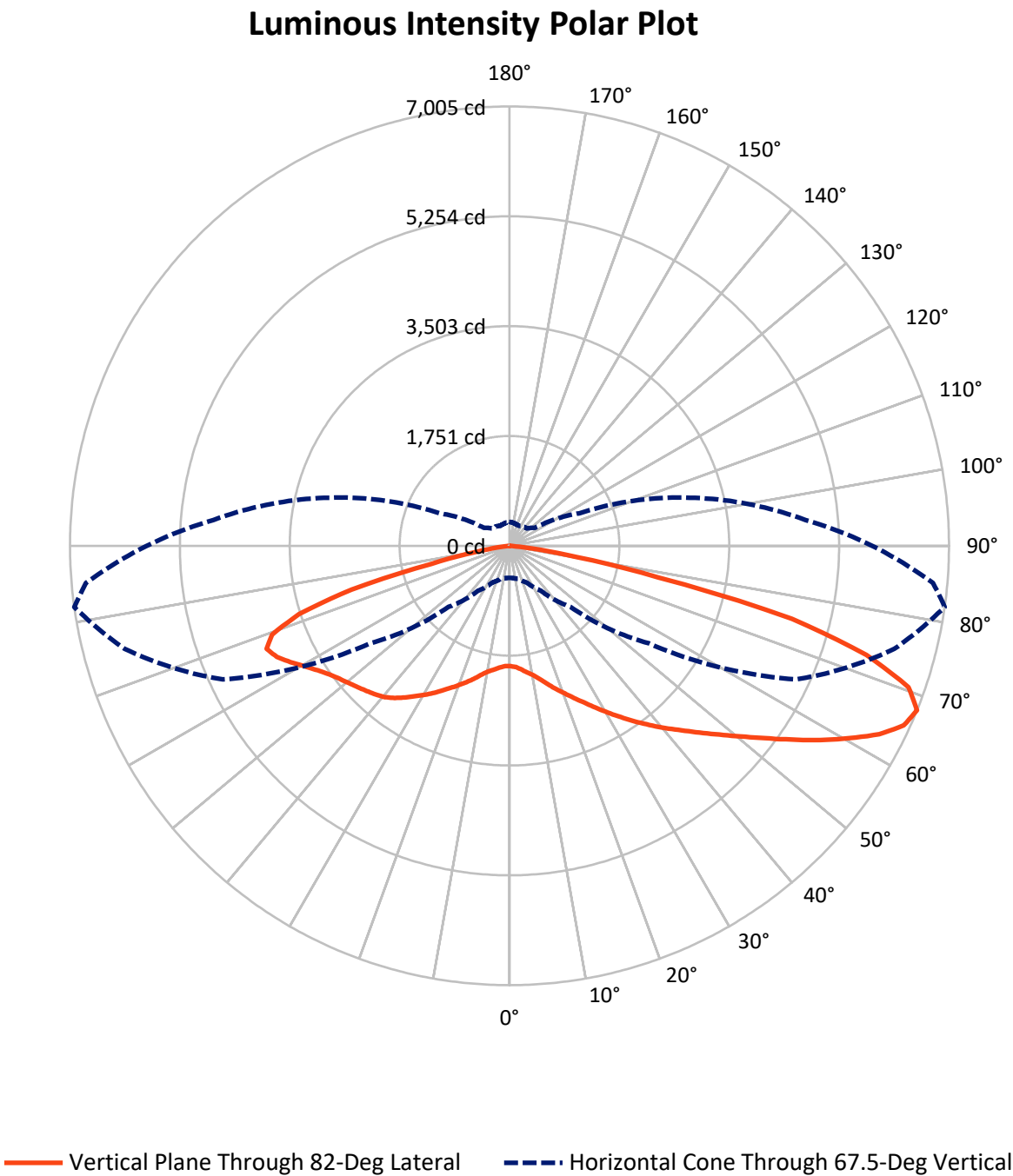
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Medium - N/A

REPORT NUMBER: P799283
CATALOG NUMBER: ARCH2-100-740-U-T2R



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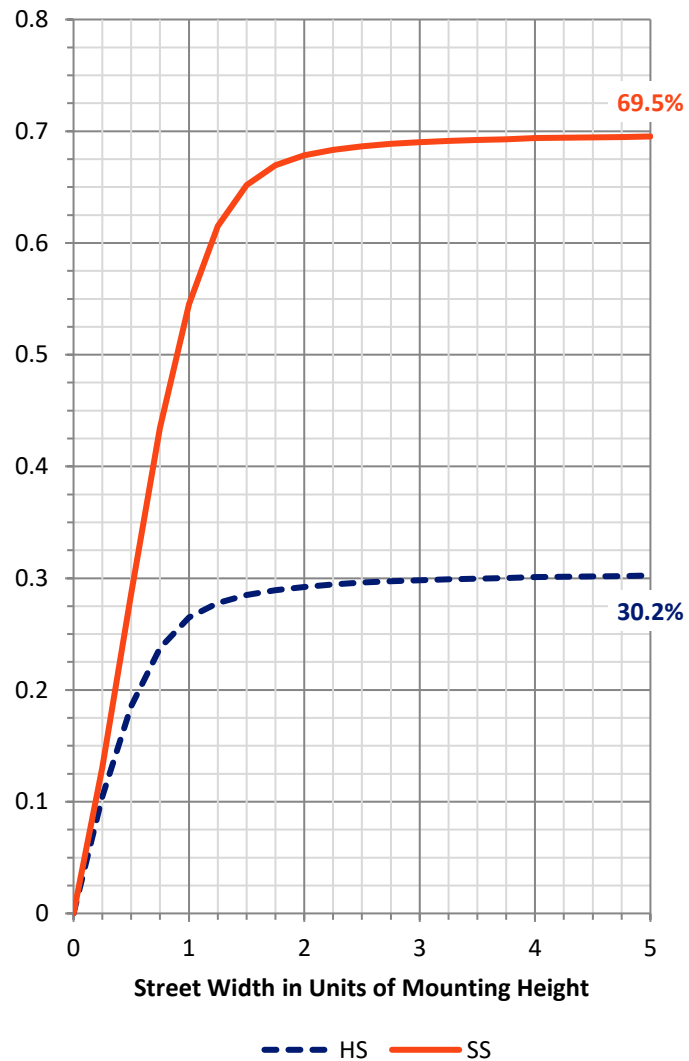
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4063.2	0.0	4063.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9278.8	0.0	9278.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	13342.0	0.0	13342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	1.5
10°-20°	713.9	5.4
20°-30°	1434.9	10.8
30°-40°	2254.0	16.9
40°-50°	2745.8	20.6
50°-60°	2594.4	19.4
60°-70°	2142.4	16.1
70°-80°	1166.6	8.7
80°-90°	91.7	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°	13342.0	100.0
0°-180°	13342.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799283

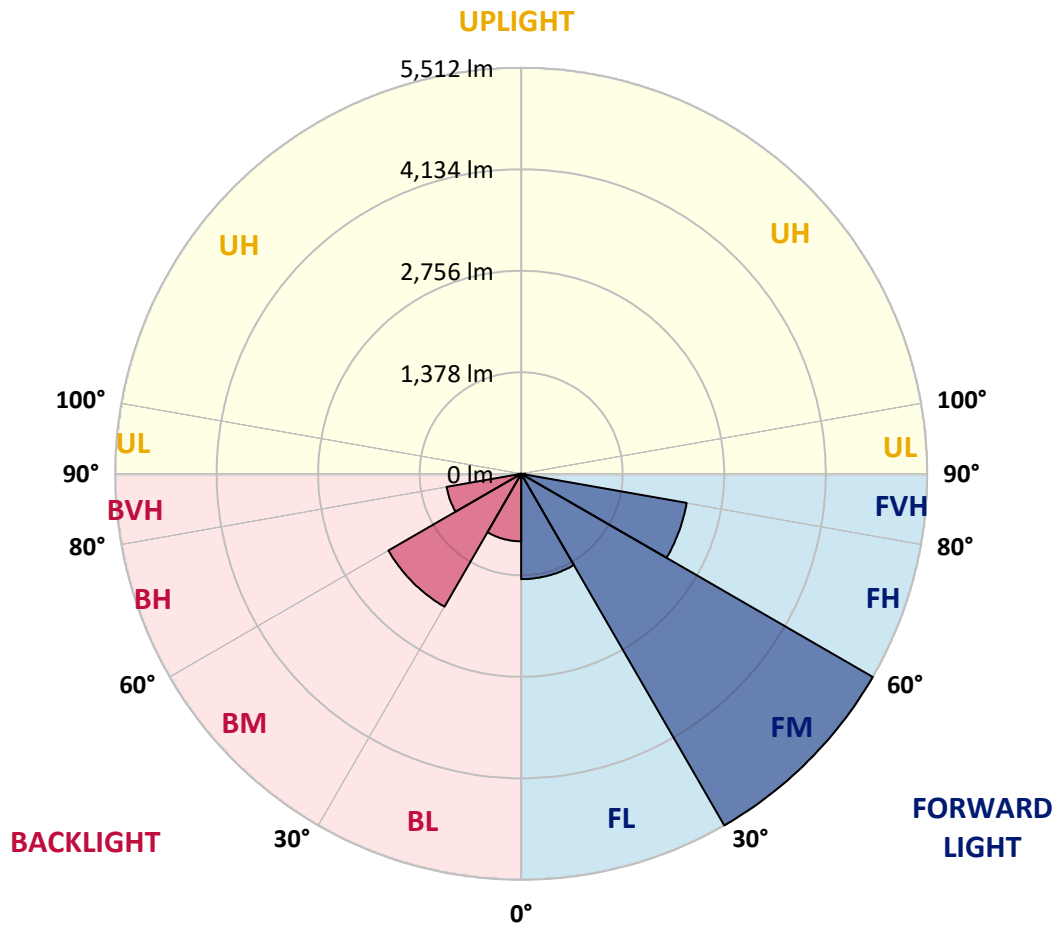
CATALOG NUMBER: ARCH2-100-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.8	10.7			
FM	(30°-60°)	5512.1	41.3			
FH	(60°-80°)	2280.6	17.1			G2/5000
FVH	(80°-90°)	55.3	0.4			G1/100
BL	(0°-30°)	916.3	6.9	B2/1000		
BM	(30°-60°)	2082.1	15.6	B2/2500		
BH	(60°-80°)	1028.4	7.7	B3/2500		G3/2500
BVH	(80°-90°)	36.4	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



REPORT NUMBER: P799283

CATALOG NUMBER: ARCH2-100-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9
2.5°	2005.1	2005.1	2020.6	2020.6	2007.0	1985.7	1979.9	1956.7	1935.3	1935.3	1937.3
5°	2196.9	2194.9	2206.6	2191.1	2158.1	2115.5	2086.4	2036.1	1993.5	1979.9	1978.0
7.5°	2431.3	2429.3	2435.2	2410.0	2348.0	2278.2	2220.1	2138.8	2069.0	2040.0	2032.2
10°	2692.8	2690.9	2685.1	2642.4	2559.1	2450.7	2363.5	2251.1	2146.5	2100.0	2090.3
12.5°	2993.1	2989.2	2975.7	2913.7	2799.4	2659.9	2534.0	2388.7	2249.2	2185.3	2163.9
15°	3328.2	3322.4	3297.2	3221.7	3068.6	2892.4	2729.6	2543.6	2373.2	2289.9	2260.8
17.5°	3680.8	3680.8	3642.1	3529.7	3359.2	3140.3	2938.9	2702.5	2503.0	2400.3	2365.4
20°	4039.2	4037.3	3988.9	3853.2	3651.8	3399.9	3144.2	2884.6	2636.6	2512.7	2470.0
22.5°	4417.0	4413.1	4353.1	4198.1	3957.9	3673.1	3374.7	3064.8	2783.9	2634.7	2580.5
25°	4850.9	4845.1	4771.5	4581.7	4296.9	3975.3	3634.3	3275.9	2952.4	2770.3	2706.4
27.5°	5312.0	5304.3	5217.1	4996.2	4684.3	4296.9	3921.1	3520.0	3138.4	2921.4	2849.7
30°	5722.7	5716.9	5622.0	5395.3	5036.9	4616.5	4194.2	3764.1	3334.1	3082.2	2993.1
32.5°	6032.7	6032.7	5947.4	5724.7	5352.7	4922.6	4469.3	3994.7	3537.5	3254.6	3150.0
35°	6220.6	6226.4	6152.8	5974.6	5623.9	5211.3	4754.1	4265.9	3754.4	3438.7	3326.3
37.5°	6247.7	6267.1	6224.5	6104.4	5811.8	5451.5	5033.0	4527.4	3979.2	3624.6	3498.7
40°	6121.8	6135.4	6137.3	6090.8	5889.3	5623.9	5279.1	4804.5	4217.5	3820.3	3675.0
42.5°	5870.0	5879.6	5897.1	5910.6	5833.1	5699.5	5467.0	5062.1	4471.2	4019.9	3849.4
45°	5544.5	5542.6	5571.6	5629.7	5625.9	5656.9	5571.6	5296.5	4734.7	4246.5	4043.1
47.5°	5058.2	5048.5	5151.2	5283.0	5348.8	5494.1	5573.5	5480.6	5021.4	4496.4	4263.9
50°	4296.9	4287.2	4511.9	4821.9	5015.6	5236.5	5467.0	5591.0	5321.7	4777.3	4504.2
52.5°	3370.9	3361.2	3646.0	4188.4	4610.7	4932.3	5252.0	5616.2	5606.5	5091.2	4775.4
55°	2506.8	2499.1	2776.1	3363.1	4047.0	4579.7	4988.5	5550.3	5873.8	5451.5	5104.7
57.5°	1766.8	1762.9	2003.1	2489.4	3322.4	4149.7	4734.7	5422.4	6119.9	5842.8	5476.7
60°	1239.9	1234.0	1408.4	1784.2	2512.7	3500.7	4482.9	5252.0	6303.9	6228.4	5871.9
62.5°	835.0	831.1	955.1	1268.9	1784.2	2694.8	4101.2	5137.7	6408.5	6615.8	6271.0
65°	633.5	631.6	687.7	860.2	1263.1	1935.3	3494.9	5124.1	6422.1	6906.4	6610.0
67.5°	511.4	513.4	544.4	643.2	873.7	1375.5	2710.3	5038.9	6350.4	7005.2	6774.7
70°	418.5	418.5	432.0	497.9	645.1	928.0	1892.7	4651.4	6150.9	6747.5	6579.0
72.5°	319.7	321.6	364.2	403.0	486.3	650.9	1212.7	3849.4	5680.1	5949.4	5821.5
75°	253.8	251.8	277.0	331.3	377.8	464.9	743.9	2760.6	4833.5	4649.5	4568.1
77.5°	182.1	180.2	199.5	246.0	286.7	329.3	443.6	1392.9	2628.9	2415.8	2355.7
80°	124.0	120.1	137.5	170.5	189.9	193.7	217.0	534.7	1146.9	1081.0	1067.4
82.5°	63.9	63.9	73.6	96.9	98.8	100.7	96.9	172.4	379.7	354.5	339.0
85°	25.2	25.2	27.1	32.9	32.9	34.9	34.9	44.6	40.7	38.7	36.8
87.5°	1.9	1.9	3.9	3.9	5.8	5.8	5.8	7.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799283

CATALOG NUMBER: ARCH2-100-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9
2.5°	1933.4	1925.7	1900.5	1894.7	1890.8	1885.0	1886.9	1873.3	1867.5	1869.5	1861.7
5°	1968.3	1954.7	1923.7	1910.2	1906.3	1900.5	1906.3	1896.6	1886.9	1890.8	1886.9
7.5°	2016.7	1997.3	1958.6	1945.0	1943.1	1937.3	1945.0	1937.3	1929.5	1933.4	1925.7
10°	2067.1	2041.9	1999.3	1985.7	1985.7	1983.8	1991.5	1979.9	1972.1	1974.1	1970.2
12.5°	2140.7	2107.8	2061.3	2049.6	2043.8	2049.6	2051.6	2036.1	2022.5	2024.5	2018.6
15°	2229.8	2193.0	2142.6	2125.2	2121.3	2119.4	2111.6	2092.3	2074.8	2072.9	2067.1
17.5°	2326.7	2280.2	2220.1	2202.7	2185.3	2179.4	2160.1	2134.9	2107.8	2107.8	2100.0
20°	2419.7	2367.4	2295.7	2270.5	2245.3	2222.1	2189.1	2148.4	2113.6	2107.8	2100.0
22.5°	2520.4	2458.4	2375.1	2338.3	2293.7	2247.2	2191.1	2136.8	2092.3	2082.6	2076.8
25°	2632.8	2555.3	2456.5	2402.2	2330.5	2258.9	2175.6	2105.8	2053.5	2038.0	2034.1
27.5°	2756.7	2663.8	2543.6	2464.2	2359.6	2247.2	2140.7	2057.4	1993.5	1974.1	1968.3
30°	2882.7	2772.2	2623.1	2506.8	2359.6	2210.4	2076.8	1979.9	1906.3	1879.2	1875.3
32.5°	3008.6	2884.6	2694.8	2530.1	2336.4	2148.4	1993.5	1879.2	1795.9	1762.9	1770.7
35°	3159.7	3008.6	2760.6	2539.8	2297.6	2072.9	1898.5	1764.9	1679.6	1650.6	1656.4
37.5°	3316.6	3132.6	2812.9	2532.0	2243.4	1987.6	1792.0	1662.2	1555.6	1505.3	1511.1
40°	3452.2	3244.9	2849.7	2504.9	2173.6	1890.8	1687.4	1516.9	1369.7	1321.2	1315.4
42.5°	3580.1	3328.2	2869.1	2464.2	2094.2	1778.4	1538.2	1319.3	1172.1	1112.0	1113.9
45°	3713.8	3409.6	2861.4	2410.0	1995.4	1646.7	1346.4	1125.6	995.8	941.5	943.5
47.5°	3866.8	3496.8	2853.6	2351.9	1875.3	1476.2	1162.4	955.1	842.7	804.0	800.1
50°	4029.5	3593.7	2843.9	2280.2	1741.6	1286.4	980.3	796.2	701.3	676.1	670.3
52.5°	4213.6	3698.3	2838.1	2194.9	1580.8	1084.9	817.5	656.7	592.8	575.4	573.4
55°	4434.4	3820.3	2845.9	2092.3	1387.1	895.0	680.0	565.7	523.1	513.4	511.4
57.5°	4703.7	3977.2	2869.1	1972.1	1183.7	730.4	579.2	509.5	482.4	474.6	474.6
60°	4996.2	4155.5	2911.7	1836.5	980.3	602.5	513.4	464.9	453.3	463.0	463.0
62.5°	5312.0	4364.7	2987.3	1671.9	790.4	509.5	461.1	428.1	420.4	439.8	441.7
65°	5604.5	4568.1	3035.7	1474.3	627.7	441.7	420.4	391.3	395.2	414.6	412.6
67.5°	5784.7	4736.6	2967.9	1226.3	497.9	391.3	377.8	352.6	362.3	377.8	379.7
70°	5674.3	4641.7	2632.8	926.0	389.4	341.0	331.3	315.8	323.5	342.9	350.6
72.5°	5133.8	4157.4	2047.7	625.7	313.8	286.7	290.6	282.8	292.5	310.0	327.4
75°	4167.1	3142.3	1373.5	401.0	248.0	244.1	249.9	244.1	248.0	265.4	275.1
77.5°	2175.6	1532.4	683.9	249.9	184.0	189.9	199.5	201.5	213.1	217.0	220.8
80°	1015.1	689.7	284.8	139.5	122.0	133.7	153.0	155.0	158.9	164.7	166.6
82.5°	331.3	207.3	131.7	75.6	69.7	75.6	98.8	118.2	120.1	131.7	131.7
85°	34.9	21.3	29.1	31.0	27.1	32.9	44.6	42.6	19.4	11.6	11.6
87.5°	9.7	7.7	9.7	9.7	7.7	7.7	5.8	1.9	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)