

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: P399339

Luminaire Tested: **ARCH-L-PA3-130-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-130-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17614 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

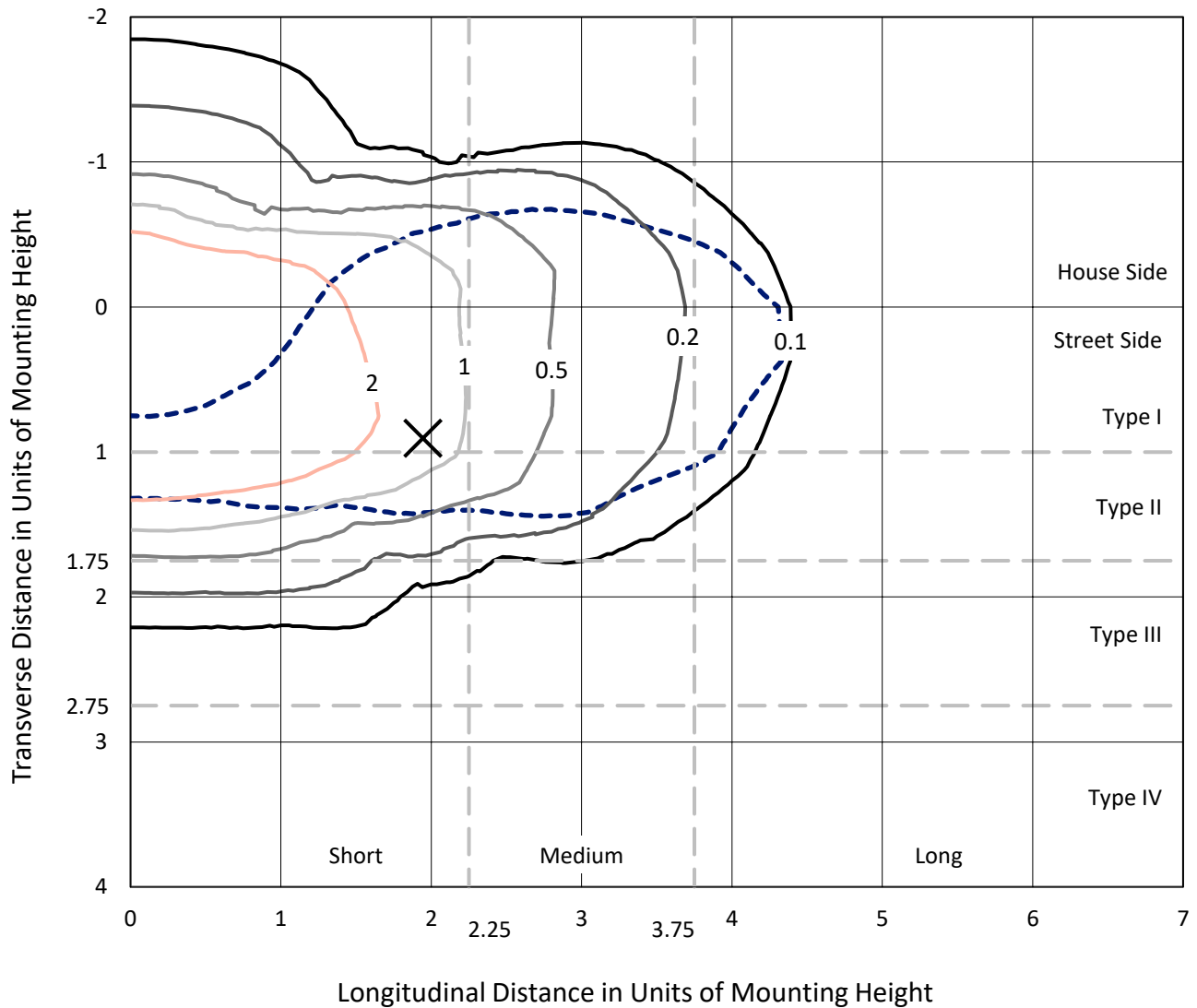
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399339
 CATALOG NUMBER: ARCH-L-PA3-130-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

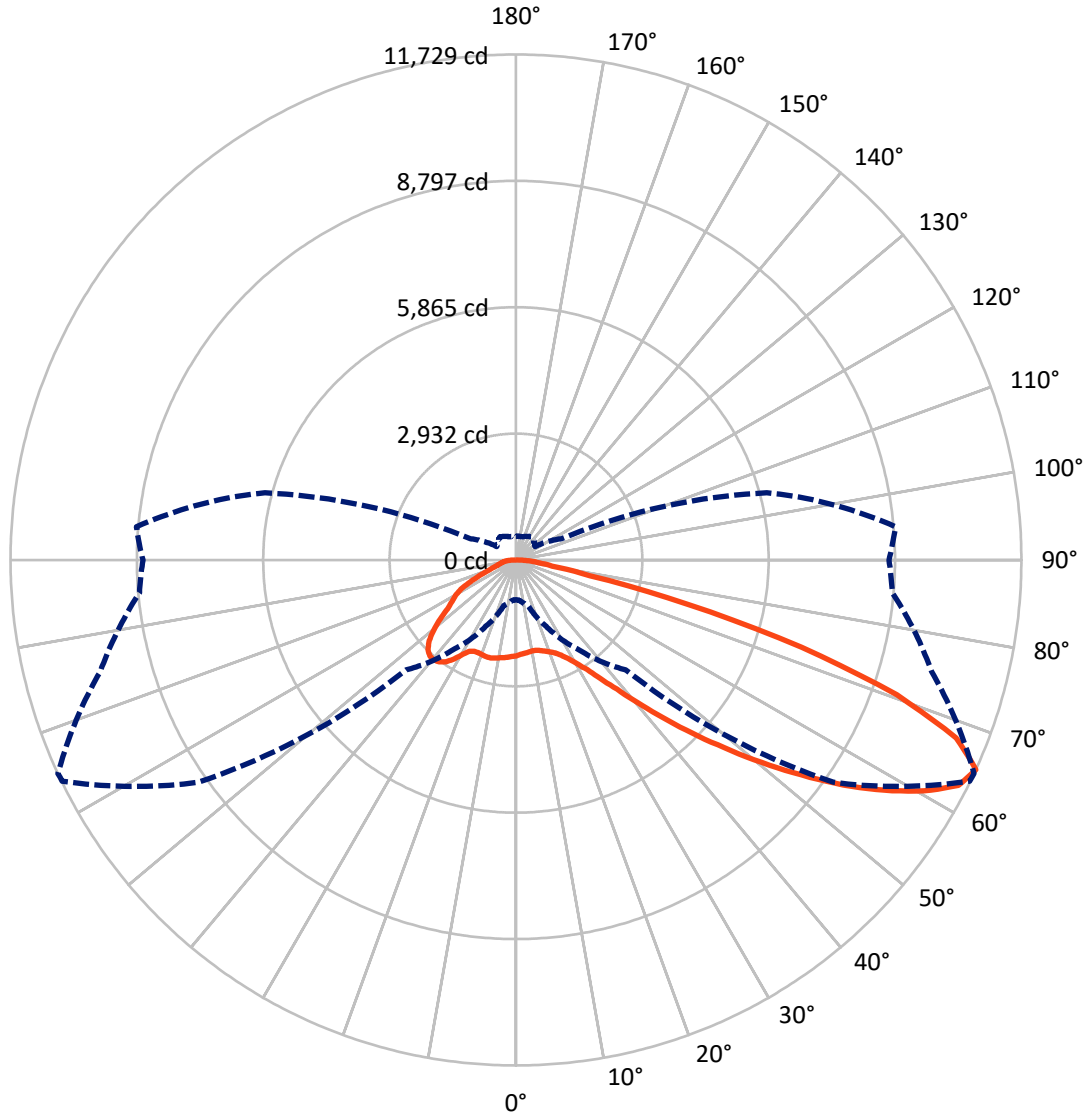
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P399339
CATALOG NUMBER: ARCH-L-PA3-130-727-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P399339
 CATALOG NUMBER: ARCH-L-PA3-130-727-U-T2U

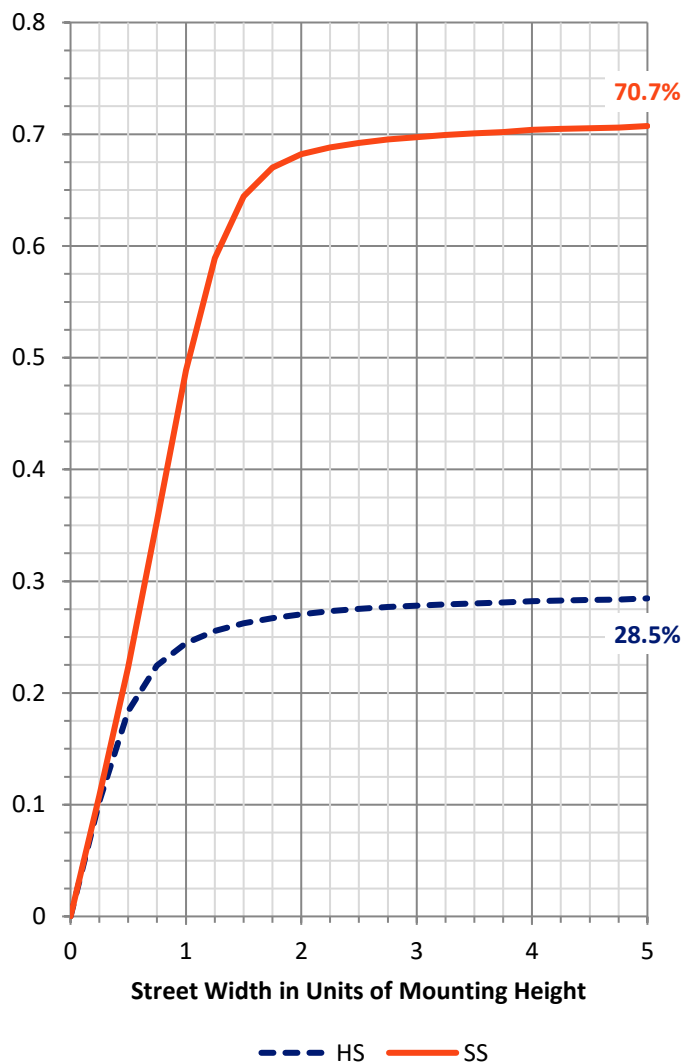
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5092.5	0.0	5092.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	12521.5	0.0	12521.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	17614.0	0.0	17614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	1.2
10°-20°	633.1	3.6
20°-30°	1124.5	6.4
30°-40°	1902.4	10.8
40°-50°	3311.8	18.8
50°-60°	4279.9	24.3
60°-70°	3745.1	21.3
70°-80°	2037.1	11.6
80°-90°	368.1	2.1
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°	17614.0	100.0
0°-180°	17614.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399339

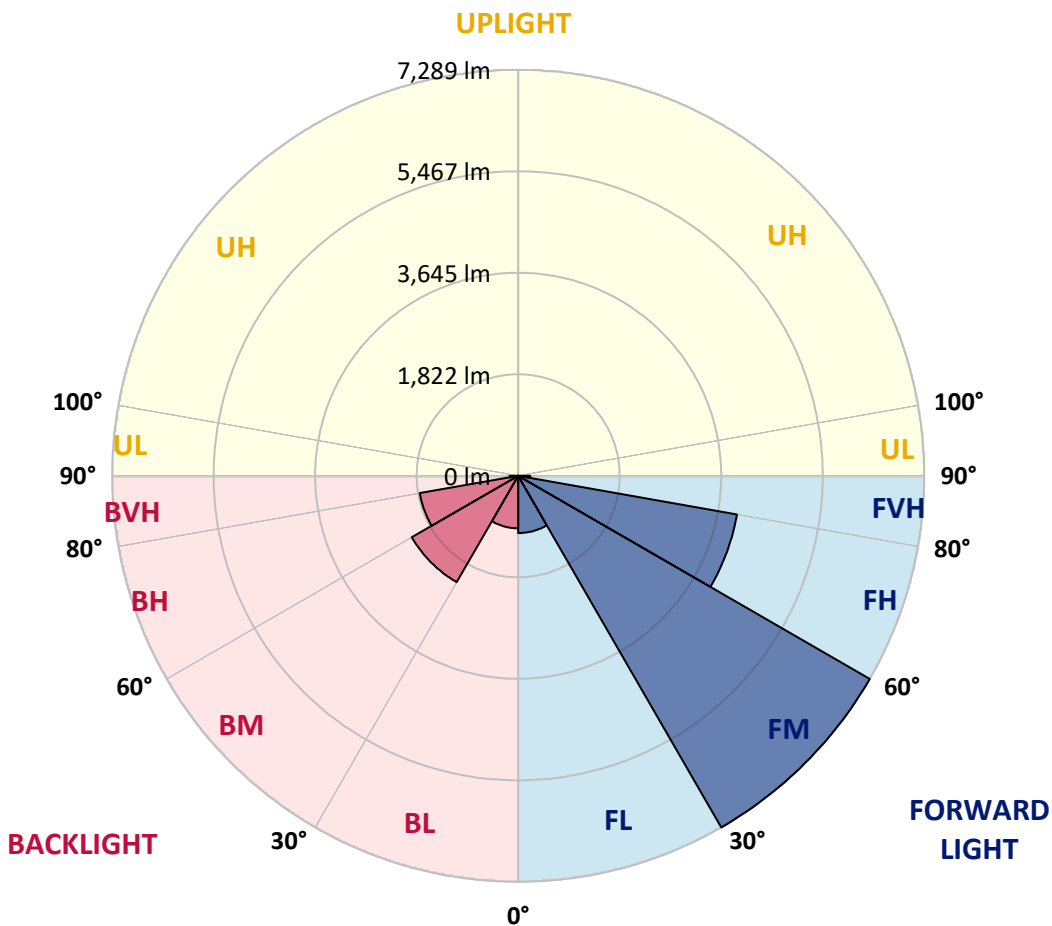
CATALOG NUMBER: ARCH-L-PA3-130-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.7	5.8			
FM (30°-60°)	7289.2	41.4			
FH (60°-80°)	3988.1	22.6			G2/5000
FVH (80°-90°)	216.6	1.2			G2/225
BL (0°-30°)	941.9	5.3	B2/1000		
BM (30°-60°)	2204.9	12.5	B2/2500		
BH (60°-80°)	1794.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	151.5	0.9			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 Short





REPORT NUMBER: P399339

CATALOG NUMBER: ARCH-L-PA3-130-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7
2.5°	2186.3	2184.0	2179.3	2184.0	2186.3	2190.9	2188.6	2193.2	2190.9	2197.9	2209.5
5°	2130.6	2126.0	2123.7	2135.3	2142.2	2153.8	2158.5	2174.7	2172.4	2184.0	2202.5
7.5°	2068.0	2068.0	2065.7	2079.6	2088.9	2109.8	2126.0	2153.8	2156.1	2177.0	2197.9
10°	2019.4	2021.7	2019.4	2030.9	2044.9	2070.4	2098.2	2137.6	2139.9	2170.1	2190.9
12.5°	2000.8	2000.8	2000.8	2017.0	2035.6	2070.4	2102.8	2144.6	2149.2	2181.6	2200.2
15°	2026.3	2028.6	2024.0	2040.2	2061.1	2102.8	2133.0	2177.0	2181.6	2211.8	2223.4
17.5°	2116.7	2126.0	2114.4	2123.7	2119.1	2151.5	2179.3	2223.4	2225.7	2251.2	2255.8
20°	2295.3	2304.5	2286.0	2274.4	2232.7	2230.3	2241.9	2276.7	2276.7	2292.9	2281.3
22.5°	2571.1	2580.4	2548.0	2503.9	2404.2	2355.5	2330.0	2346.3	2343.9	2350.9	2320.8
25°	2937.5	2935.1	2895.7	2814.6	2654.6	2536.4	2473.8	2448.3	2448.3	2434.4	2397.3
27.5°	3391.9	3357.1	3287.5	3190.2	2967.6	2803.0	2668.5	2603.6	2592.0	2550.3	2480.7
30°	3876.4	3850.9	3751.2	3609.8	3352.5	3141.5	2918.9	2789.1	2782.1	2691.7	2587.4
32.5°	4446.8	4405.0	4293.7	4124.5	3816.1	3519.4	3241.2	3044.1	3032.5	2888.8	2745.0
35°	5179.4	5144.6	4929.0	4759.7	4363.3	3973.8	3644.6	3382.6	3373.3	3197.1	3014.0
37.5°	6058.1	5967.7	5759.0	5441.4	5024.1	4562.7	4145.4	3816.1	3804.6	3609.8	3378.0
40°	6841.7	6760.6	6575.1	6283.0	5835.5	5323.1	4757.4	4358.7	4347.1	4110.6	3818.5
42.5°	7421.3	7365.7	7245.1	7075.9	6755.9	6445.3	5538.7	5014.8	4993.9	4687.9	4323.9
45°	7757.5	7713.4	7643.9	7685.6	7681.0	7623.0	6470.8	5796.1	5728.9	5332.4	4887.3
47.5°	7676.3	7636.9	7664.7	7989.3	8436.8	8773.0	7555.8	6596.0	6505.5	5988.5	5487.7
50°	7089.8	7106.0	7252.1	7873.4	8877.3	9623.8	8759.1	7507.1	7386.5	6649.3	6058.1
52.5°	6021.0	6060.4	6415.1	7284.5	8828.6	10175.6	9846.4	8448.4	8288.4	7293.8	6577.4
55°	4782.9	4882.6	5341.7	6255.1	8193.4	10215.0	10667.1	9394.3	9218.1	7898.9	7029.5
57.5°	3537.9	3686.3	4217.2	5056.5	6976.2	9591.4	11077.5	10298.5	10085.2	8499.4	7507.1
60°	2244.2	2334.7	2946.7	3936.7	5339.4	8065.8	11024.2	11068.2	10882.7	9097.5	8005.6
62.5°	1432.8	1476.8	1785.2	2807.6	3732.7	5972.3	10442.2	11650.1	11524.9	9642.4	8478.5
65°	920.4	939.0	1096.6	1727.2	2541.0	3605.2	8993.2	11712.7	11729.0	9983.2	8770.6
67.5°	748.9	758.1	816.1	1066.5	1796.8	1991.5	6264.4	10822.5	11019.5	9895.1	8671.0
70°	681.6	693.2	753.5	850.9	1391.1	1374.8	3032.5	9055.8	9378.1	9387.3	8228.1
72.5°	575.0	591.2	672.3	804.5	1075.8	1085.0	1284.4	6449.9	6925.2	8390.4	7562.7
75°	479.9	489.2	558.7	709.4	911.1	867.1	901.9	3419.7	4106.0	6728.1	6855.6
77.5°	389.5	398.8	449.8	565.7	809.1	674.7	709.4	1416.6	1750.4	4567.3	5603.7
80°	278.2	287.5	345.4	440.5	612.1	607.4	526.3	781.3	848.5	2469.1	3639.9
82.5°	199.4	206.3	262.0	315.3	424.3	609.7	396.5	530.9	556.4	1094.3	1467.6
85°	134.5	134.5	180.8	208.7	273.6	384.9	319.9	359.4	375.6	519.3	396.5
87.5°	58.0	58.0	97.4	106.6	143.7	178.5	238.8	180.8	185.5	280.5	162.3
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: P399339
 CATALOG NUMBER: ARCH-L-PA3-130-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7	2225.7
2.5°	2216.4	2218.7	2223.4	2237.3	2246.6	2260.5	2267.4	2276.7	2276.7	2272.1	2274.4
5°	2211.8	2218.7	2235.0	2260.5	2276.7	2302.2	2320.8	2334.7	2339.3	2334.7	2337.0
7.5°	2209.5	2221.1	2248.9	2286.0	2309.2	2341.6	2367.1	2383.4	2394.9	2390.3	2392.6
10°	2202.5	2221.1	2255.8	2302.2	2337.0	2369.4	2392.6	2399.6	2406.5	2401.9	2399.6
12.5°	2211.8	2232.7	2269.7	2325.4	2364.8	2390.3	2397.3	2385.7	2369.4	2360.2	2357.8
15°	2230.3	2251.2	2288.3	2346.3	2381.0	2390.3	2374.1	2337.0	2299.9	2279.0	2276.7
17.5°	2255.8	2269.7	2299.9	2350.9	2378.7	2367.1	2334.7	2290.6	2262.8	2246.6	2248.9
20°	2272.1	2272.1	2295.3	2334.7	2357.8	2348.6	2309.2	2260.5	2216.4	2195.6	2188.6
22.5°	2295.3	2283.7	2286.0	2320.8	2353.2	2339.3	2255.8	2170.1	2107.5	2084.3	2082.0
25°	2357.8	2325.4	2304.5	2325.4	2401.9	2288.3	2121.4	2021.7	1963.7	1942.8	1945.2
27.5°	2434.4	2390.3	2346.3	2381.0	2441.3	2172.4	1949.8	1836.2	1801.4	1785.2	1792.2
30°	2510.9	2452.9	2394.9	2520.1	2413.5	1991.5	1729.6	1618.3	1588.1	1576.5	1585.8
32.5°	2652.3	2557.2	2487.7	2705.6	2327.7	1785.2	1490.8	1388.7	1360.9	1347.0	1342.4
35°	2888.8	2768.2	2698.7	2867.9	2207.2	1555.7	1272.8	1200.9	1170.8	1140.7	1136.0
37.5°	3229.6	3083.5	3020.9	2960.6	2037.9	1328.5	1105.9	1057.2	1013.2	966.8	964.5
40°	3637.6	3447.5	3401.1	3002.4	1803.7	1115.2	990.0	943.6	888.0	843.9	846.2
42.5°	4108.3	3864.8	3765.1	2990.8	1513.9	1001.6	906.5	855.5	806.8	767.4	765.1
45°	4611.4	4335.5	4106.0	2909.6	1226.5	922.7	855.5	795.2	746.5	702.5	697.8
47.5°	5167.8	4859.4	4421.3	2752.0	1013.2	867.1	825.4	739.6	695.5	667.7	667.7
50°	5728.9	5360.2	4711.1	2513.2	888.0	825.4	781.3	709.4	674.7	651.5	651.5
52.5°	6208.8	5881.9	4949.9	2228.0	809.1	790.6	751.2	695.5	658.4	637.6	635.3
55°	6674.8	6366.4	5163.2	1945.2	744.2	744.2	744.2	683.9	642.2	623.7	621.3
57.5°	7138.5	6876.5	5385.7	1759.7	686.3	704.8	730.3	670.0	628.3	612.1	609.7
60°	7662.4	7488.5	5643.1	1629.9	635.3	663.1	711.8	653.8	605.1	591.2	588.9
62.5°	8218.9	8218.9	5877.2	1446.7	588.9	628.3	683.9	632.9	584.2	572.7	570.3
65°	8654.7	8842.5	6027.9	1173.1	542.5	593.5	651.5	605.1	556.4	554.1	549.5
67.5°	8705.7	9000.2	5932.9	885.6	500.8	556.4	619.0	575.0	528.6	528.6	521.6
70°	8339.4	8638.5	5636.1	663.1	470.6	519.3	577.3	537.9	493.8	498.5	486.9
72.5°	7727.3	7801.5	4898.9	524.0	435.9	479.9	526.3	496.1	456.7	456.7	440.5
75°	6920.5	6507.8	3558.8	438.2	394.1	433.5	475.3	449.8	415.0	403.4	394.1
77.5°	5508.6	4715.7	2068.0	377.9	359.4	389.5	417.3	398.8	368.6	343.1	343.1
80°	3357.1	2763.6	913.5	326.9	317.6	340.8	359.4	338.5	313.0	287.5	280.5
82.5°	1277.5	1066.5	442.8	280.5	278.2	292.1	306.0	285.2	266.6	255.0	220.3
85°	350.1	322.3	303.7	234.2	229.5	227.2	243.4	234.2	208.7	171.6	153.0
87.5°	132.2	150.7	164.6	143.7	153.0	141.4	162.3	148.4	132.2	85.8	76.5
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)