

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: P399528

Luminaire Tested: **ARCH-L-PA3-150-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399528
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-PA3-150-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17452 lumens
Efficiency: N/A
Efficacy: 114.1 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

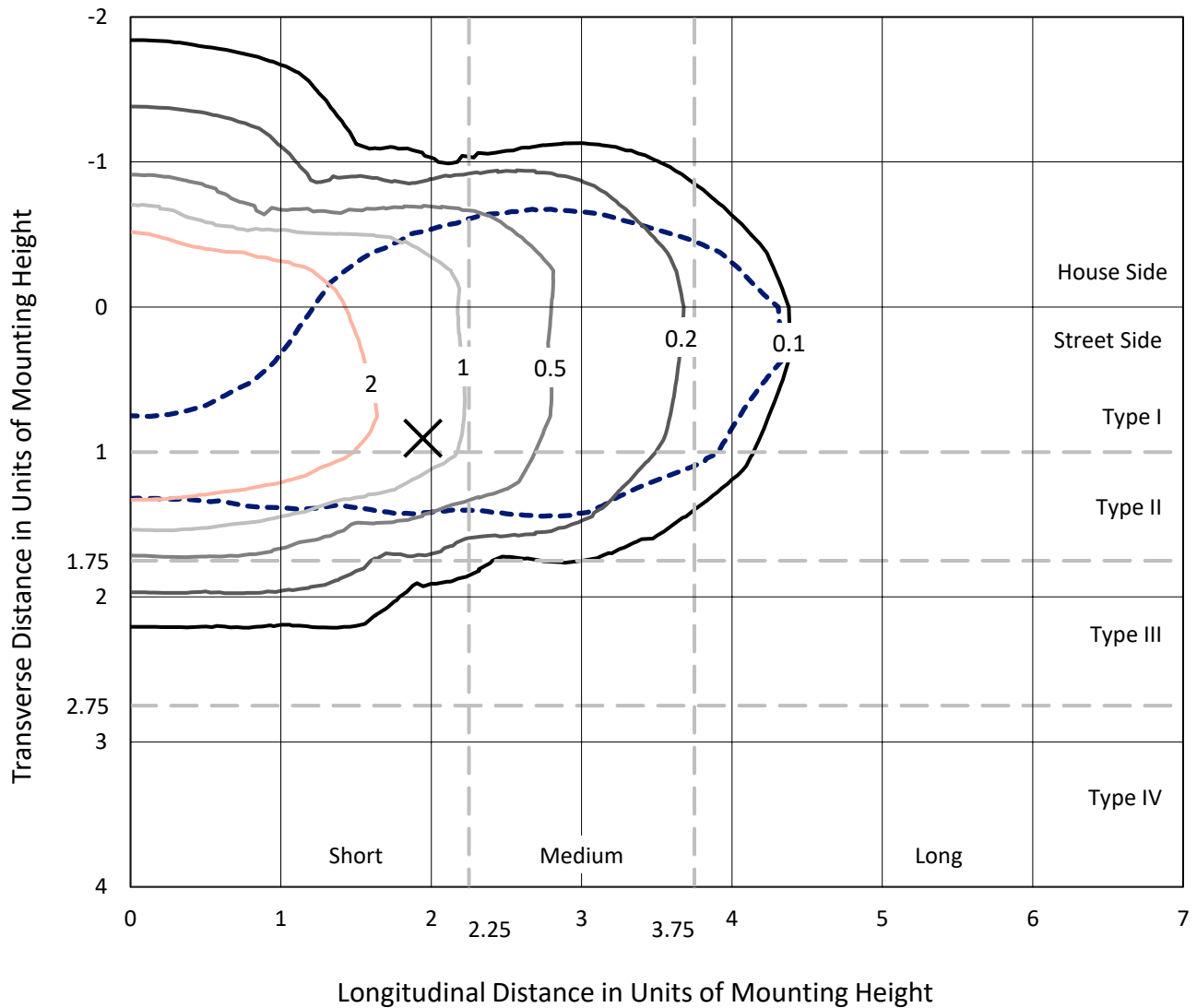
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399528
 CATALOG NUMBER: ARCH-L-PA3-150-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

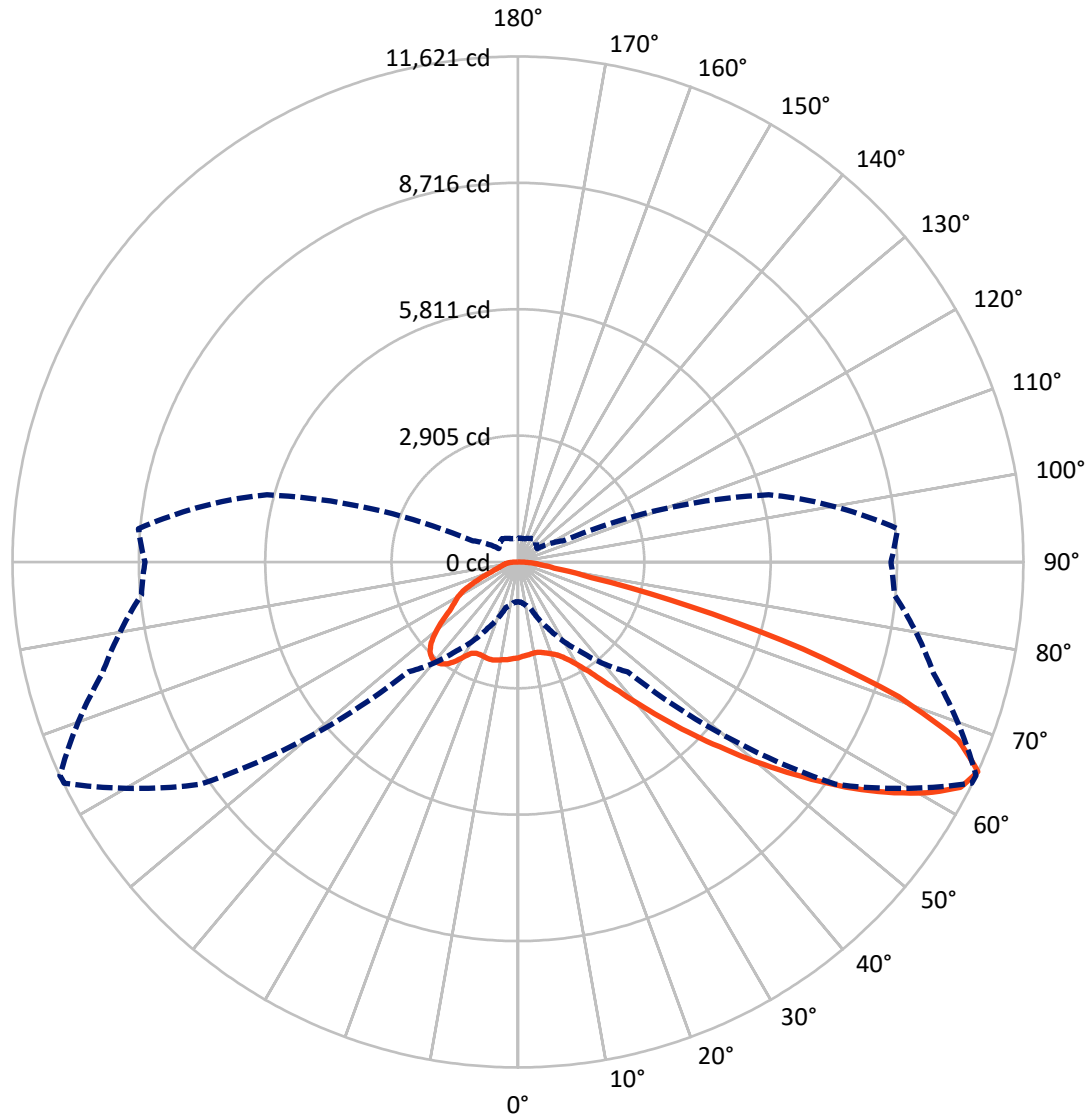
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P399528
CATALOG NUMBER: ARCH-L-PA3-150-827-U-T2U

Luminous Intensity Polar Plot



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

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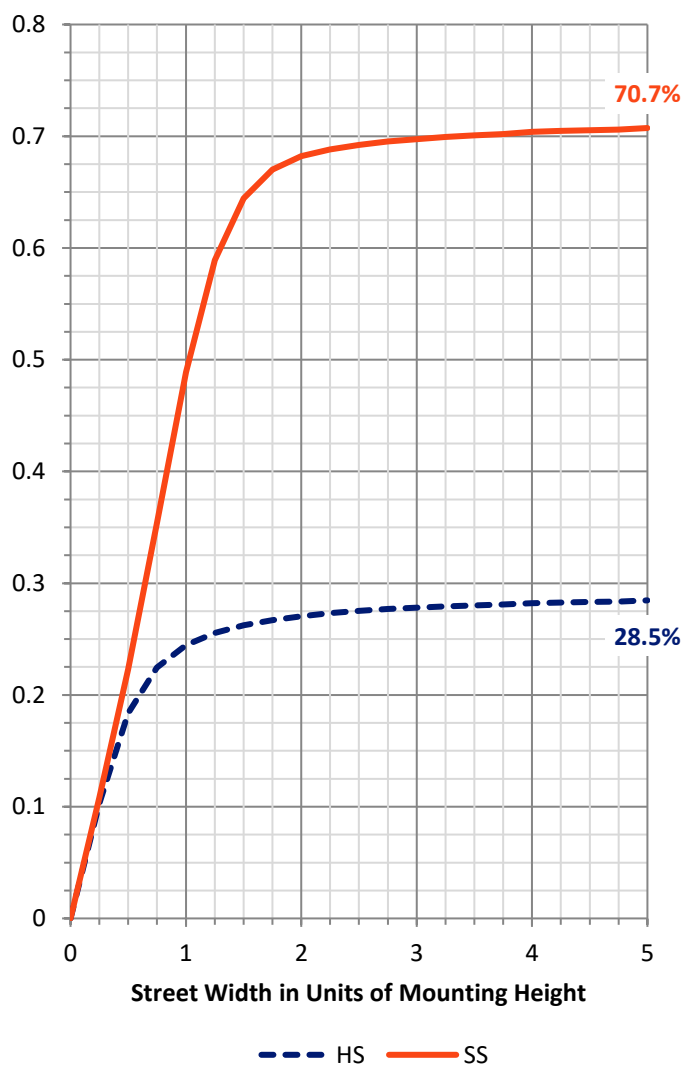
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5045.6	0.0	5045.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	12406.4	0.0	12406.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	17452.0	0.0	17452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	1.2
10°-20°	627.3	3.6
20°-30°	1114.2	6.4
30°-40°	1884.9	10.8
40°-50°	3281.3	18.8
50°-60°	4240.5	24.3
60°-70°	3710.7	21.3
70°-80°	2018.3	11.6
80°-90°	364.7	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°	17452.0	100.0
0°-180°	17452.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399528

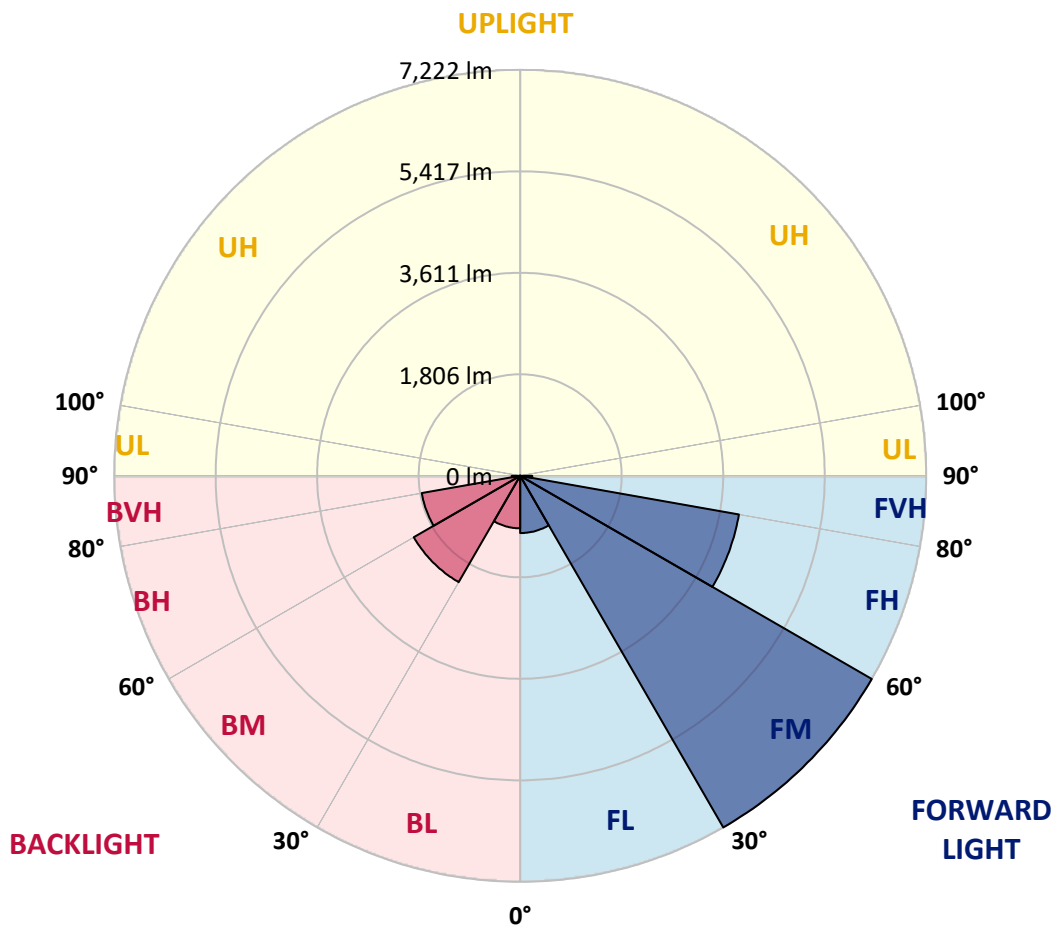
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.3	5.8			
FM (30°-60°)	7222.1	41.4			
FH (60°-80°)	3951.4	22.6			G2/5000
FVH (80°-90°)	214.6	1.2			G2/225
BL (0°-30°)	933.3	5.3	B2/1000		
BM (30°-60°)	2184.6	12.5	B2/2500		
BH (60°-80°)	1777.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	150.1	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: P399528

CATALOG NUMBER: ARCH-L-PA3-150-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2
2.5°	2166.2	2163.9	2159.3	2163.9	2166.2	2170.8	2168.5	2173.1	2170.8	2177.7	2189.1
5°	2111.0	2106.5	2104.2	2115.6	2122.5	2134.0	2138.6	2154.7	2152.4	2163.9	2182.3
7.5°	2049.0	2049.0	2046.7	2060.5	2069.7	2090.4	2106.5	2134.0	2136.3	2157.0	2177.7
10°	2000.8	2003.1	2000.8	2012.3	2026.1	2051.3	2078.9	2117.9	2120.2	2150.1	2170.8
12.5°	1982.4	1982.4	1982.4	1998.5	2016.9	2051.3	2083.5	2124.8	2129.4	2161.6	2180.0
15°	2007.7	2010.0	2005.4	2021.5	2042.1	2083.5	2113.3	2157.0	2161.6	2191.4	2202.9
17.5°	2097.3	2106.5	2095.0	2104.2	2099.6	2131.7	2159.3	2202.9	2205.2	2230.5	2235.1
20°	2274.1	2283.3	2265.0	2253.5	2212.1	2209.8	2221.3	2255.8	2255.8	2271.8	2260.4
22.5°	2547.5	2556.7	2524.5	2480.9	2382.1	2333.9	2308.6	2324.7	2322.4	2329.3	2299.4
25°	2910.4	2908.1	2869.1	2788.7	2630.2	2513.0	2451.0	2425.8	2425.8	2412.0	2375.2
27.5°	3360.7	3326.2	3257.3	3160.8	2940.3	2777.2	2644.0	2579.7	2568.2	2526.8	2457.9
30°	3840.8	3815.5	3716.7	3576.6	3321.6	3112.6	2892.1	2763.4	2756.5	2666.9	2563.6
32.5°	4405.9	4364.5	4254.3	4086.6	3781.0	3487.0	3211.4	3016.1	3004.6	2862.2	2719.8
35°	5131.8	5097.3	4883.7	4716.0	4323.2	3937.3	3611.1	3351.5	3342.3	3167.7	2986.2
37.5°	6002.4	5912.8	5706.0	5391.3	4977.8	4520.7	4107.2	3781.0	3769.6	3576.6	3346.9
40°	6778.8	6698.4	6514.6	6225.2	5781.8	5274.2	4713.7	4318.6	4307.1	4072.8	3783.3
42.5°	7353.1	7297.9	7178.5	7010.8	6693.8	6386.0	5487.8	4968.7	4948.0	4644.8	4284.1
45°	7686.1	7642.5	7573.6	7614.9	7610.3	7552.9	6411.2	5742.8	5676.2	5283.4	4842.3
47.5°	7605.7	7566.7	7594.3	7915.9	8359.2	8692.3	7486.3	6535.3	6445.7	5933.4	5437.3
50°	7024.6	7040.7	7185.4	7801.0	8795.6	9535.3	8678.5	7438.1	7318.6	6588.1	6002.4
52.5°	5965.6	6004.7	6356.1	7217.5	8747.4	10082.0	9755.8	8370.7	8212.2	7226.7	6516.9
55°	4738.9	4837.7	5292.5	6197.6	8118.0	10121.1	10569.0	9307.9	9133.3	7826.3	6964.8
57.5°	3505.4	3652.4	4178.4	5010.0	6912.0	9503.2	10975.6	10203.8	9992.4	8421.2	7438.1
60°	2223.6	2313.2	2919.6	3900.5	5290.3	7991.7	10922.8	10966.4	10782.6	9013.9	7931.9
62.5°	1419.6	1463.3	1768.8	2781.8	3698.4	5917.4	10346.2	11543.0	11418.9	9553.7	8400.5
65°	912.0	930.3	1086.5	1711.3	2517.6	3572.0	8910.5	11605.0	11621.1	9891.4	8690.0
67.5°	742.0	751.2	808.6	1056.7	1780.3	1973.2	6206.8	10722.9	10918.2	9804.1	8591.2
70°	675.4	686.8	746.6	843.0	1378.3	1362.2	3004.6	8972.5	9291.8	9301.0	8152.5
72.5°	569.7	585.8	666.2	797.1	1065.9	1075.0	1272.6	6390.6	6861.5	8313.3	7493.2
75°	475.5	484.7	553.6	702.9	902.8	859.1	893.6	3388.2	4068.2	6666.2	6792.6
77.5°	385.9	395.1	445.6	560.5	801.7	668.5	702.9	1403.5	1734.3	4525.3	5552.1
80°	275.7	284.8	342.3	436.5	606.4	601.8	521.4	774.1	840.7	2446.4	3606.5
82.5°	197.6	204.4	259.6	312.4	420.4	604.1	392.8	526.0	551.3	1084.2	1454.1
85°	133.2	133.2	179.2	206.7	271.1	381.3	317.0	356.1	372.1	514.6	392.8
87.5°	57.4	57.4	96.5	105.7	142.4	176.9	236.6	179.2	183.8	278.0	160.8
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: P399528

CATALOG NUMBER: ARCH-L-PA3-150-827-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2
2.5°	2196.0	2198.3	2202.9	2216.7	2225.9	2239.7	2246.6	2255.8	2255.8	2251.2	2253.5
5°	2191.4	2198.3	2214.4	2239.7	2255.8	2281.0	2299.4	2313.2	2317.8	2313.2	2315.5
7.5°	2189.1	2200.6	2228.2	2265.0	2287.9	2320.1	2345.4	2361.4	2372.9	2368.3	2370.6
10°	2182.3	2200.6	2235.1	2281.0	2315.5	2347.6	2370.6	2377.5	2384.4	2379.8	2377.5
12.5°	2191.4	2212.1	2248.9	2304.0	2343.1	2368.3	2375.2	2363.7	2347.6	2338.5	2336.2
15°	2209.8	2230.5	2267.3	2324.7	2359.1	2368.3	2352.2	2315.5	2278.7	2258.1	2255.8
17.5°	2235.1	2248.9	2278.7	2329.3	2356.8	2345.4	2313.2	2269.5	2242.0	2225.9	2228.2
20°	2251.2	2251.2	2274.1	2313.2	2336.2	2327.0	2287.9	2239.7	2196.0	2175.4	2168.5
22.5°	2274.1	2262.7	2265.0	2299.4	2331.6	2317.8	2235.1	2150.1	2088.1	2065.1	2062.8
25°	2336.2	2304.0	2283.3	2304.0	2379.8	2267.3	2101.9	2003.1	1945.7	1925.0	1927.3
27.5°	2412.0	2368.3	2324.7	2359.1	2418.9	2152.4	1931.9	1819.3	1784.9	1768.8	1775.7
30°	2487.8	2430.3	2372.9	2497.0	2391.3	1973.2	1713.6	1603.4	1573.5	1562.0	1571.2
32.5°	2627.9	2533.7	2464.8	2680.7	2306.3	1768.8	1477.0	1376.0	1348.4	1334.6	1330.0
35°	2862.2	2742.8	2673.8	2841.5	2186.9	1541.4	1261.1	1189.9	1160.0	1130.2	1125.6
37.5°	3199.9	3055.2	2993.1	2933.4	2019.2	1316.2	1095.7	1047.5	1003.8	957.9	955.6
40°	3604.2	3415.8	3369.9	2974.8	1787.2	1104.9	980.9	934.9	879.8	836.1	838.4
42.5°	4070.5	3829.3	3730.5	2963.3	1500.0	992.4	898.2	847.6	799.4	760.3	758.0
45°	4569.0	4295.6	4068.2	2882.9	1215.2	914.3	847.6	787.9	739.7	696.0	691.4
47.5°	5120.3	4814.7	4380.6	2726.7	1003.8	859.1	817.8	732.8	689.1	661.6	661.6
50°	5676.2	5310.9	4667.7	2490.1	879.8	817.8	774.1	702.9	668.5	645.5	645.5
52.5°	6151.7	5827.8	4904.3	2207.5	801.7	783.3	744.3	689.1	652.4	631.7	629.4
55°	6613.4	6307.9	5115.7	1927.3	737.4	737.4	737.4	677.6	636.3	617.9	615.6
57.5°	7072.8	6813.2	5336.2	1743.5	679.9	698.3	723.6	663.9	622.5	606.4	604.1
60°	7592.0	7419.7	5591.2	1614.9	629.4	657.0	705.2	647.8	599.5	585.8	583.5
62.5°	8143.3	8143.3	5823.2	1433.4	583.5	622.5	677.6	627.1	578.9	567.4	565.1
65°	8575.1	8761.2	5972.5	1162.3	537.5	588.1	645.5	599.5	551.3	549.0	544.4
67.5°	8625.7	8917.4	5878.3	877.5	496.2	551.3	613.3	569.7	523.7	523.7	516.9
70°	8262.7	8559.0	5584.3	657.0	466.3	514.6	572.0	532.9	489.3	493.9	482.4
72.5°	7656.3	7729.8	4853.8	519.1	431.9	475.5	521.4	491.6	452.5	452.5	436.5
75°	6856.9	6448.0	3526.1	434.2	390.5	429.6	470.9	445.6	411.2	399.7	390.5
77.5°	5457.9	4672.3	2049.0	374.4	356.1	385.9	413.5	395.1	365.2	340.0	340.0
80°	3326.2	2738.2	905.1	323.9	314.7	337.7	356.1	335.4	310.1	284.8	278.0
82.5°	1265.7	1056.7	438.7	278.0	275.7	289.4	303.2	282.5	264.2	252.7	218.2
85°	346.9	319.3	300.9	232.0	227.4	225.1	241.2	232.0	206.7	170.0	151.6
87.5°	130.9	149.3	163.1	142.4	151.6	140.1	160.8	147.0	130.9	85.0	75.8
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)