

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: P399276

Luminaire Tested: **ARCH-L-PA3-120-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399276
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-PA3-120-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17894 lumens
Efficiency: N/A
Efficacy: 145.5 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

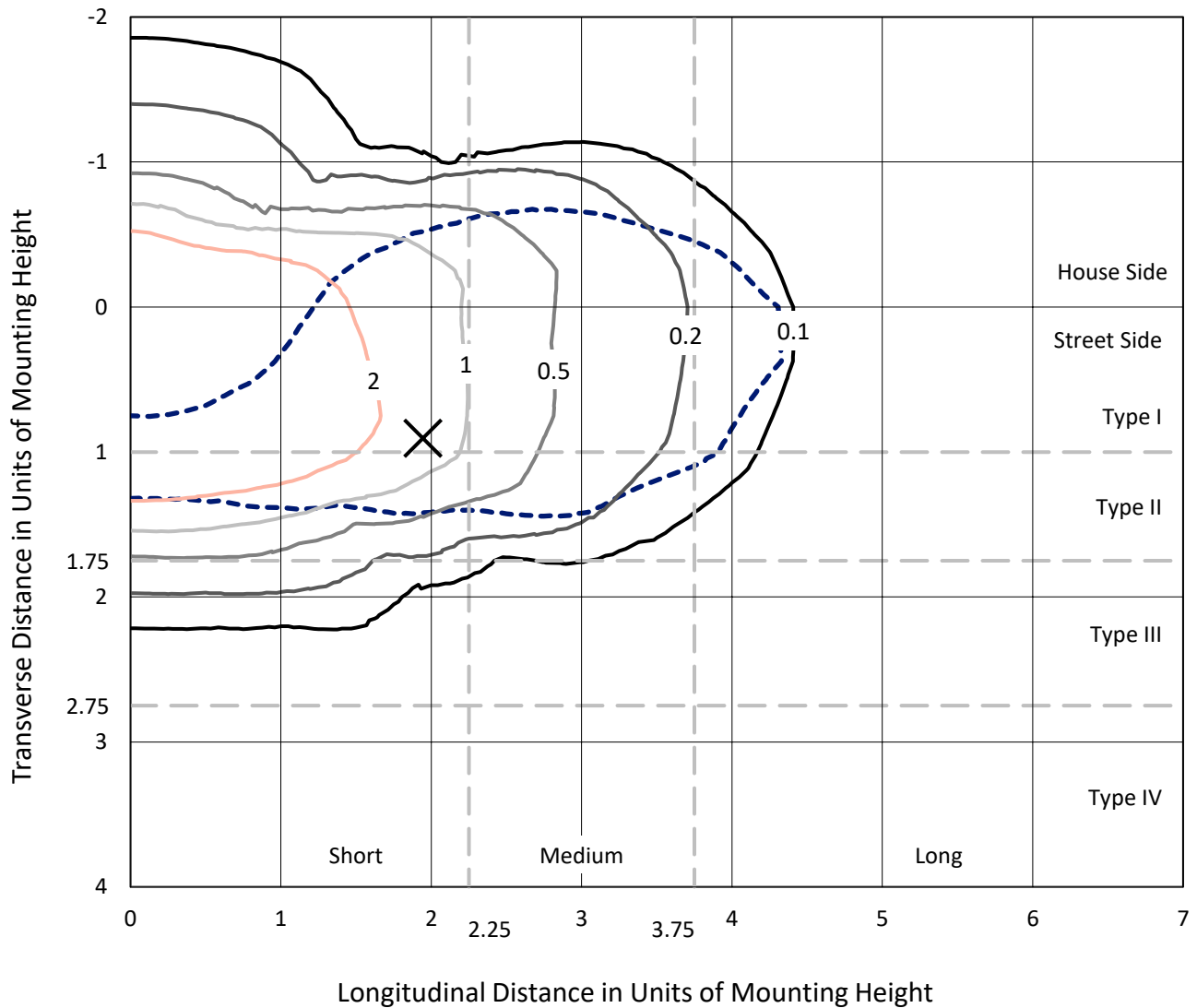
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399276
 CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

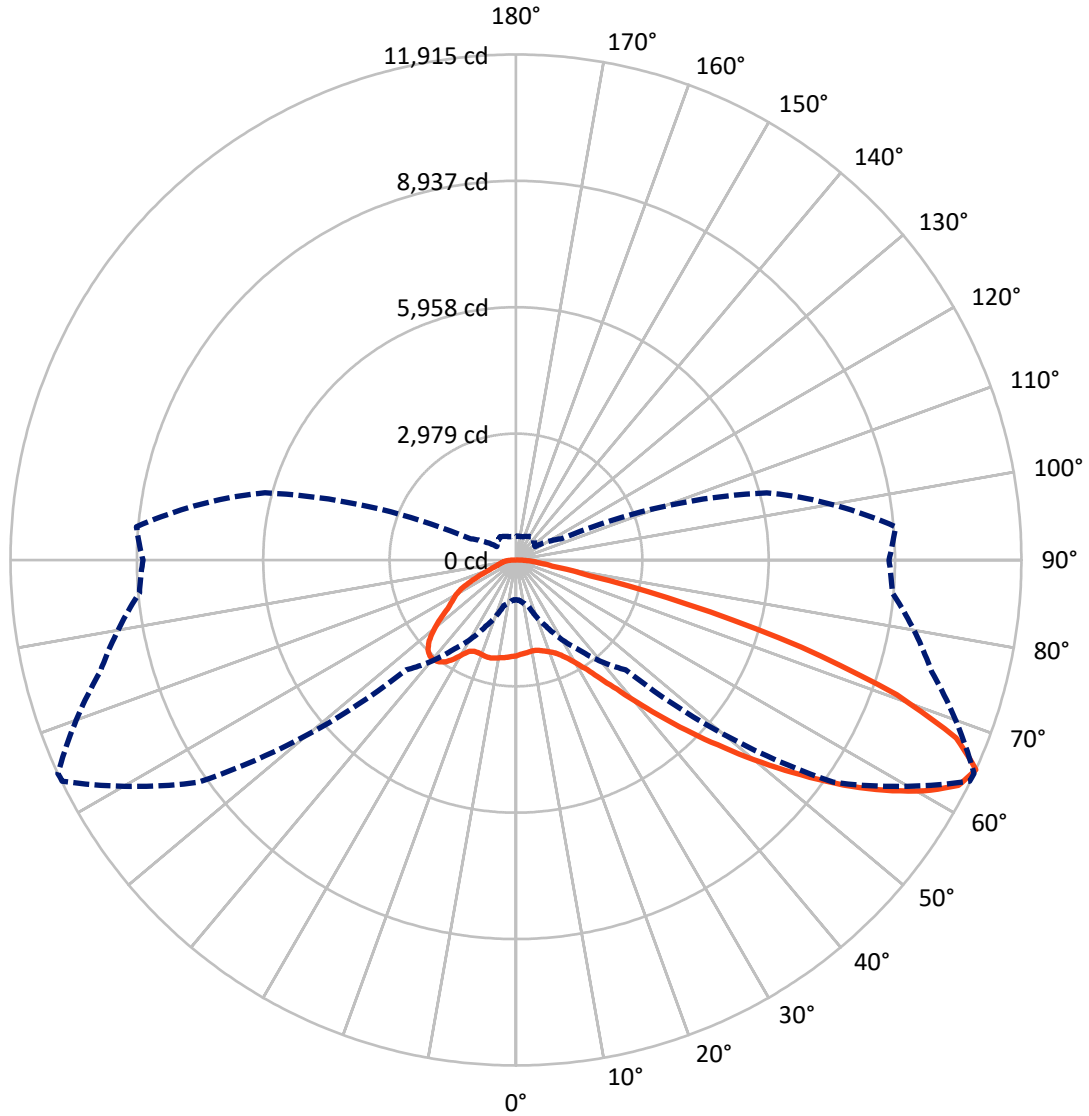
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399276
CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2U

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2U

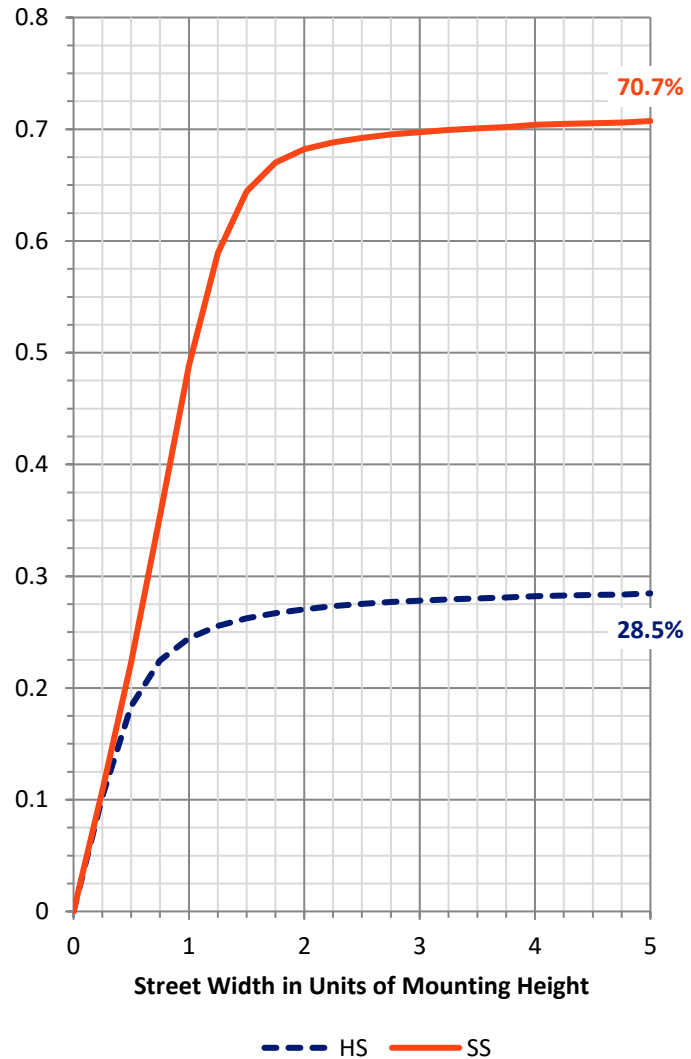
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5173.4	0.0	5173.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	12720.6	0.0	12720.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	17894.0	0.0	17894.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	1.2
10°-20°	643.1	3.6
20°-30°	1142.4	6.4
30°-40°	1932.7	10.8
40°-50°	3364.4	18.8
50°-60°	4347.9	24.3
60°-70°	3804.7	21.3
70°-80°	2069.5	11.6
80°-90°	373.9	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°	17894.0	100.0
0°-180°	17894.0	100.0



REPORT NUMBER: P399276

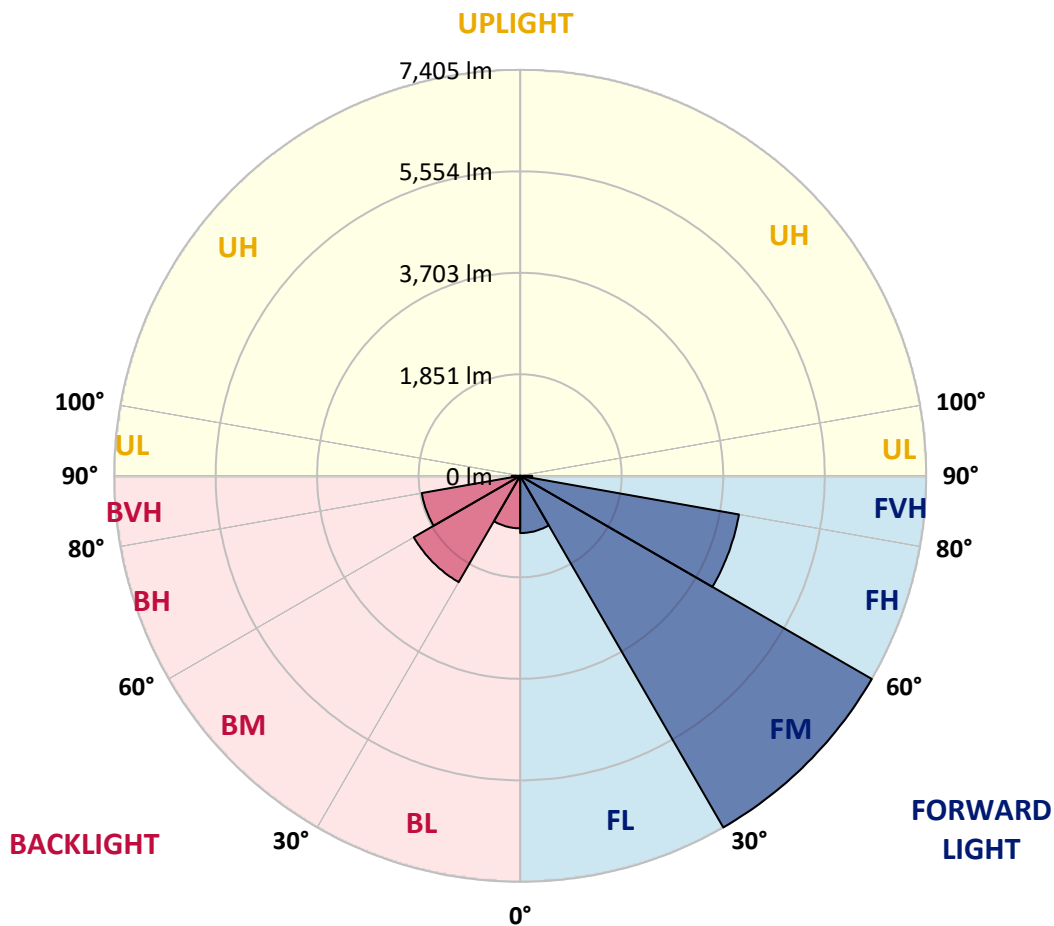
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.1	5.8			
FM (30°-60°)	7405.0	41.4			
FH (60°-80°)	4051.5	22.6			G2/5000
FVH (80°-90°)	220.0	1.2			G2/225
BL (0°-30°)	956.9	5.3	B2/1000		
BM (30°-60°)	2240.0	12.5	B2/2500		
BH (60°-80°)	1822.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	153.9	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: P399276

CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1
2.5°	2221.0	2218.7	2214.0	2218.7	2221.0	2225.7	2223.4	2228.1	2225.7	2232.8	2244.6
5°	2164.5	2159.8	2157.4	2169.2	2176.3	2188.1	2192.8	2209.3	2206.9	2218.7	2237.5
7.5°	2100.9	2100.9	2098.6	2112.7	2122.1	2143.3	2159.8	2188.1	2190.4	2211.6	2232.8
10°	2051.5	2053.8	2051.5	2063.2	2077.4	2103.3	2131.5	2171.6	2173.9	2204.6	2225.7
12.5°	2032.6	2032.6	2032.6	2049.1	2067.9	2103.3	2136.2	2178.6	2183.4	2216.3	2235.2
15°	2058.5	2060.9	2056.2	2072.7	2093.9	2136.2	2166.9	2211.6	2216.3	2246.9	2258.7
17.5°	2150.4	2159.8	2148.0	2157.4	2152.7	2185.7	2214.0	2258.7	2261.1	2287.0	2291.7
20°	2331.7	2341.2	2322.3	2310.5	2268.1	2265.8	2277.6	2312.9	2312.9	2329.4	2317.6
22.5°	2612.0	2621.4	2588.5	2543.7	2442.4	2393.0	2367.1	2383.6	2381.2	2388.3	2357.6
25°	2984.2	2981.8	2941.8	2859.3	2696.8	2576.7	2513.1	2487.2	2487.2	2473.1	2435.4
27.5°	3445.8	3410.5	3339.8	3240.9	3014.8	2847.5	2710.9	2645.0	2633.2	2590.8	2520.2
30°	3938.0	3912.1	3810.9	3667.2	3405.8	3191.4	2965.3	2833.4	2826.3	2734.5	2628.5
32.5°	4517.4	4475.1	4362.0	4190.1	3876.8	3575.3	3292.7	3092.5	3080.7	2934.7	2788.7
35°	5261.7	5226.4	5007.3	4835.4	4432.7	4037.0	3702.5	3436.4	3426.9	3247.9	3061.9
37.5°	6154.4	6062.5	5850.5	5527.9	5103.9	4635.2	4211.3	3876.8	3865.0	3667.2	3431.7
40°	6950.5	6868.0	6679.6	6382.8	5928.3	5407.7	4833.1	4427.9	4416.2	4175.9	3879.2
42.5°	7539.3	7482.8	7360.3	7188.3	6863.3	6547.7	5626.8	5094.5	5073.3	4762.4	4392.6
45°	7880.8	7836.1	7765.4	7807.8	7803.1	7744.2	6573.6	5888.2	5819.9	5417.2	4965.0
47.5°	7798.4	7758.3	7786.6	8116.3	8570.9	8912.4	7675.9	6700.8	6608.9	6083.7	5575.0
50°	7202.5	7219.0	7367.3	7998.6	9018.4	9776.8	8898.3	7626.4	7504.0	6755.0	6154.4
52.5°	6116.7	6156.7	6517.1	7400.3	8968.9	10337.4	10002.9	8582.7	8420.2	7409.7	6682.0
55°	4859.0	4960.2	5426.6	6354.6	8323.6	10377.4	10836.7	9543.6	9364.6	8024.5	7141.2
57.5°	3594.2	3744.9	4284.3	5136.9	7087.1	9743.8	11253.6	10462.2	10245.5	8634.5	7626.4
60°	2279.9	2371.8	2993.6	3999.3	5424.2	8194.1	11199.4	11244.2	11055.7	9242.2	8132.8
62.5°	1455.6	1500.3	1813.6	2852.3	3792.0	6067.2	10608.2	11835.3	11708.2	9795.7	8613.3
65°	935.1	953.9	1114.1	1754.7	2581.4	3662.5	9136.2	11898.9	11915.4	10141.9	8910.1
67.5°	760.8	770.2	829.1	1083.4	1825.4	2023.2	6364.0	10994.5	11194.7	10052.4	8808.8
70°	692.5	704.2	765.5	864.4	1413.2	1396.7	3080.7	9199.8	9527.2	9536.6	8358.9
72.5°	584.1	600.6	683.0	817.3	1092.9	1102.3	1304.8	6552.4	7035.3	8523.8	7683.0
75°	487.5	497.0	567.6	720.7	925.6	880.9	916.2	3474.1	4171.2	6835.1	6964.6
77.5°	395.7	405.1	456.9	574.7	822.0	685.4	720.7	1439.1	1778.2	4639.9	5692.7
80°	282.6	292.1	350.9	447.5	621.8	617.1	534.7	793.7	862.0	2508.4	3697.8
82.5°	202.6	209.6	266.1	320.3	431.0	619.4	402.8	539.4	565.3	1111.7	1490.9
85°	136.6	136.6	183.7	212.0	277.9	391.0	325.0	365.1	381.6	527.6	402.8
87.5°	58.9	58.9	98.9	108.3	146.0	181.4	242.6	183.7	188.4	285.0	164.9
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: P399276

CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1	2261.1
2.5°	2251.7	2254.0	2258.7	2272.9	2282.3	2296.4	2303.5	2312.9	2312.9	2308.2	2310.5
5°	2246.9	2254.0	2270.5	2296.4	2312.9	2338.8	2357.6	2371.8	2376.5	2371.8	2374.1
7.5°	2244.6	2256.4	2284.6	2322.3	2345.9	2378.8	2404.8	2421.2	2433.0	2428.3	2430.7
10°	2237.5	2256.4	2291.7	2338.8	2374.1	2407.1	2430.7	2437.7	2444.8	2440.1	2437.7
12.5°	2246.9	2268.1	2305.8	2362.4	2402.4	2428.3	2435.4	2423.6	2407.1	2397.7	2395.3
15°	2265.8	2287.0	2324.7	2383.6	2418.9	2428.3	2411.8	2374.1	2336.4	2315.3	2312.9
17.5°	2291.7	2305.8	2336.4	2388.3	2416.5	2404.8	2371.8	2327.0	2298.8	2282.3	2284.6
20°	2308.2	2308.2	2331.7	2371.8	2395.3	2385.9	2345.9	2296.4	2251.7	2230.5	2223.4
22.5°	2331.7	2320.0	2322.3	2357.6	2390.6	2376.5	2291.7	2204.6	2141.0	2117.4	2115.1
25°	2395.3	2362.4	2341.2	2362.4	2440.1	2324.7	2155.1	2053.8	1994.9	1973.7	1976.1
27.5°	2473.1	2428.3	2383.6	2418.9	2480.1	2206.9	1980.8	1865.4	1830.1	1813.6	1820.6
30°	2550.8	2491.9	2433.0	2560.2	2451.9	2023.2	1757.0	1644.0	1613.4	1601.6	1611.0
32.5°	2694.5	2597.9	2527.2	2748.6	2364.7	1813.6	1514.5	1410.8	1382.6	1368.4	1363.7
35°	2934.7	2812.2	2741.6	2913.5	2242.2	1580.4	1293.1	1220.0	1189.4	1158.8	1154.1
37.5°	3280.9	3132.5	3068.9	3007.7	2070.3	1349.6	1123.5	1074.0	1029.3	982.2	979.8
40°	3695.5	3502.3	3455.2	3050.1	1832.4	1132.9	1005.7	958.6	902.1	857.3	859.7
42.5°	4173.6	3926.3	3825.0	3038.3	1538.0	1017.5	920.9	869.1	819.6	779.6	777.2
45°	4684.7	4404.4	4171.2	2955.9	1245.9	937.4	869.1	807.9	758.4	713.7	708.9
47.5°	5249.9	4936.7	4491.5	2795.7	1029.3	880.9	838.5	751.3	706.6	678.3	678.3
50°	5819.9	5445.4	4786.0	2553.1	902.1	838.5	793.7	720.7	685.4	661.8	661.8
52.5°	6307.5	5975.4	5028.5	2263.4	822.0	803.2	763.1	706.6	668.9	647.7	645.3
55°	6780.9	6467.6	5245.2	1976.1	756.0	756.0	756.0	694.8	652.4	633.6	631.2
57.5°	7251.9	6985.8	5471.3	1787.7	697.2	716.0	741.9	680.7	638.3	621.8	619.4
60°	7784.2	7607.6	5732.8	1655.8	645.3	673.6	723.1	664.2	614.7	600.6	598.2
62.5°	8349.5	8349.5	5970.7	1469.7	598.2	638.3	694.8	643.0	593.5	581.8	579.4
65°	8792.3	8983.1	6123.8	1191.8	551.1	603.0	661.8	614.7	565.3	562.9	558.2
67.5°	8844.1	9143.2	6027.2	899.7	508.7	565.3	628.9	584.1	537.0	537.0	529.9
70°	8472.0	8775.8	5725.7	673.6	478.1	527.6	586.5	546.4	501.7	506.4	494.6
72.5°	7850.2	7925.6	4976.7	532.3	442.8	487.5	534.7	504.0	464.0	464.0	447.5
75°	7030.5	6611.3	3615.4	445.1	400.4	440.4	482.8	456.9	421.6	409.8	400.4
77.5°	5596.2	4790.7	2100.9	383.9	365.1	395.7	424.0	405.1	374.5	348.6	348.6
80°	3410.5	2807.5	928.0	332.1	322.7	346.2	365.1	343.9	318.0	292.1	285.0
82.5°	1297.8	1083.4	449.9	285.0	282.6	296.8	310.9	289.7	270.9	259.1	223.8
85°	355.6	327.4	308.5	237.9	233.2	230.8	247.3	237.9	212.0	174.3	155.4
87.5°	134.3	153.1	167.2	146.0	155.4	143.7	164.9	150.7	134.3	87.1	77.7
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)