

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: P399204

Luminaire Tested: **ARCH-L-PA3-110-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399204
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-PA3-110-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16603 lumens
Efficiency: N/A
Efficacy: 146.9 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

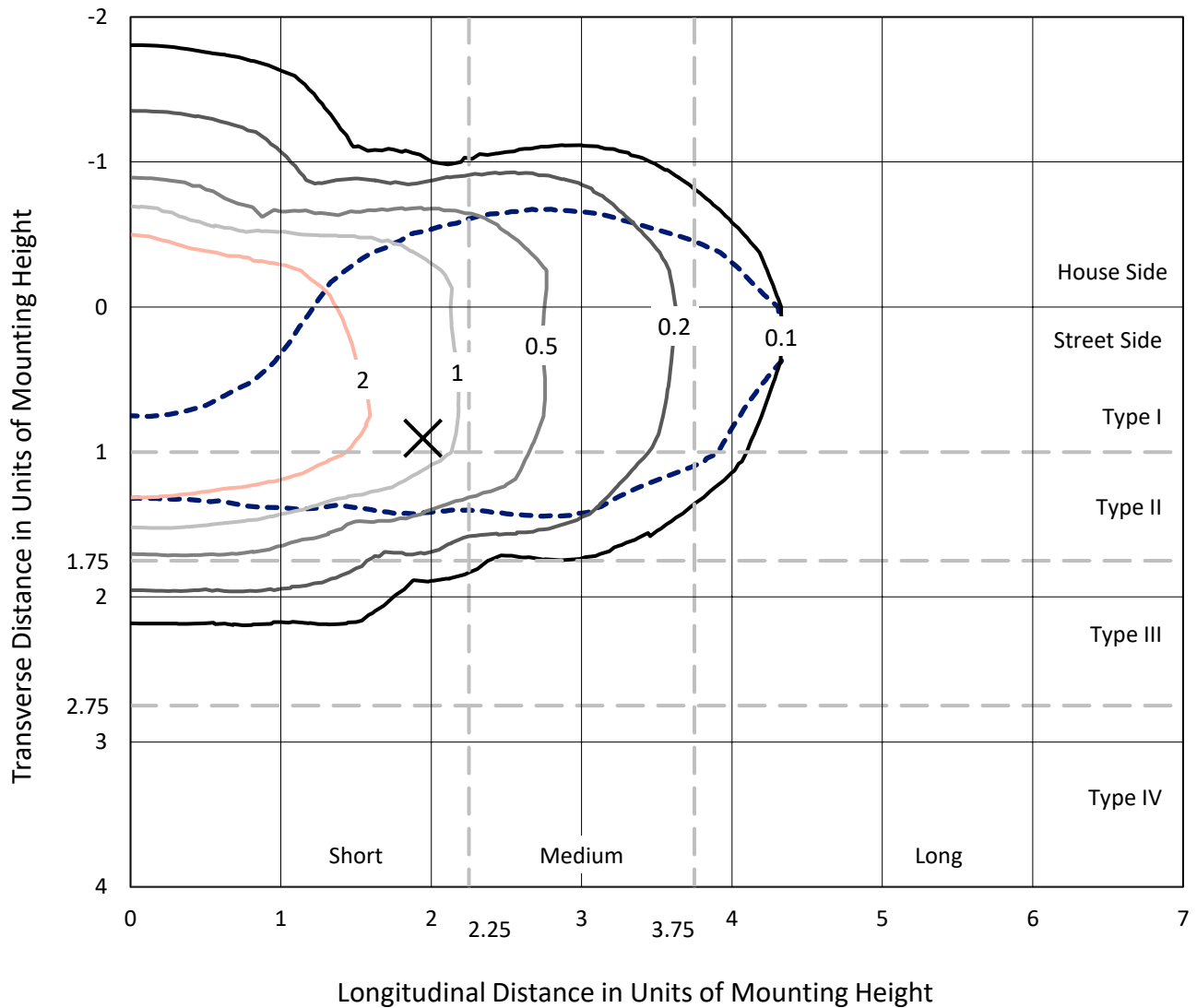
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

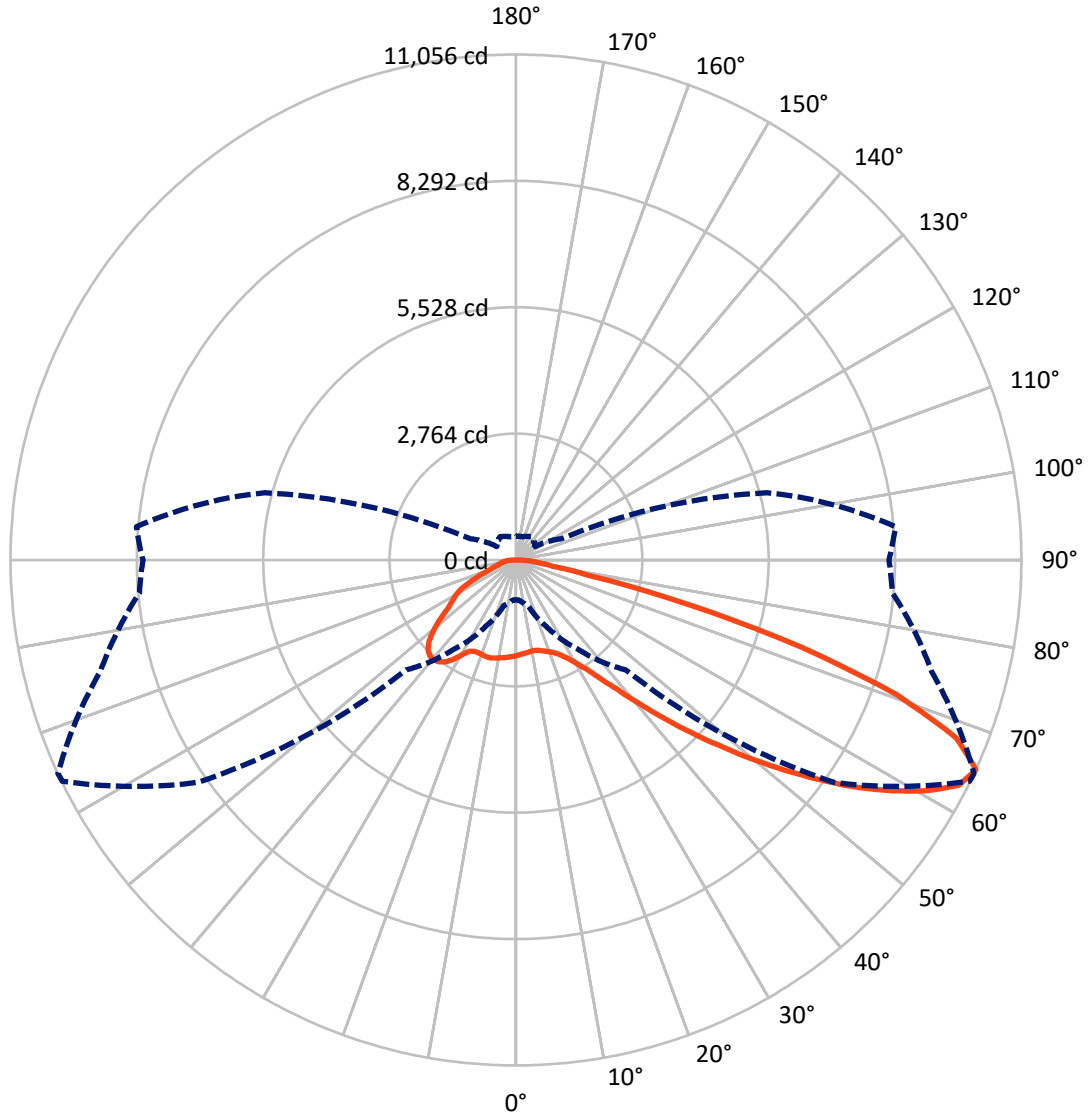
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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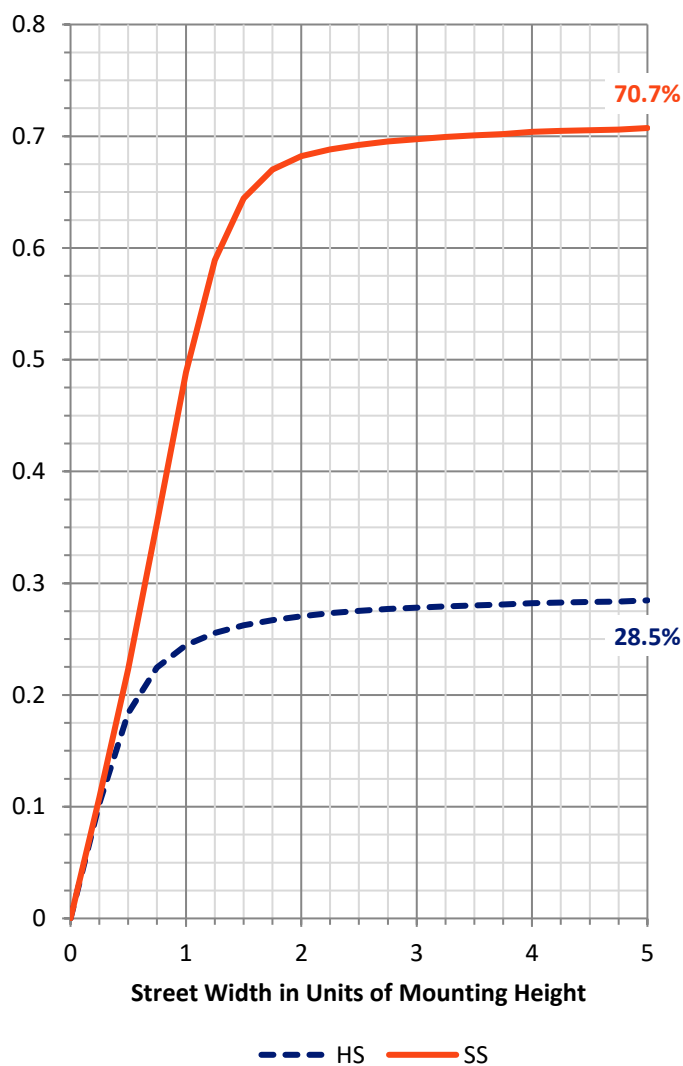
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4800.2	0.0	4800.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	11802.8	0.0	11802.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	16603.0	0.0	16603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	1.2
10°-20°	596.7	3.6
20°-30°	1060.0	6.4
30°-40°	1793.2	10.8
40°-50°	3121.7	18.8
50°-60°	4034.2	24.3
60°-70°	3530.2	21.3
70°-80°	1920.2	11.6
80°-90°	346.9	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°	16603.0	100.0
0°-180°	16603.0	100.0

Coefficient of Utilization

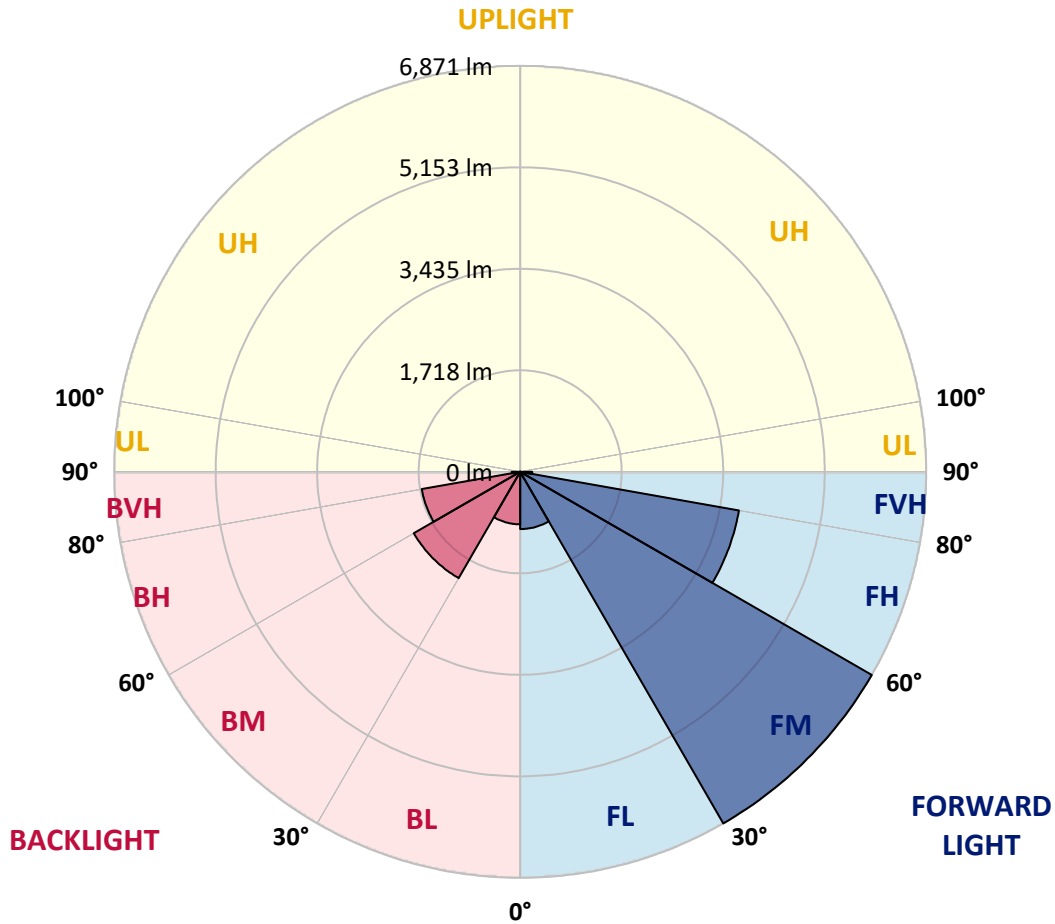


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.7	5.8			
FM (30°-60°)	6870.8	41.4			
FH (60°-80°)	3759.2	22.6			G2/5000
FVH (80°-90°)	204.2	1.2			G2/225
BL (0°-30°)	887.9	5.3	B2/1000		
BM (30°-60°)	2078.4	12.5	B2/2500		
BH (60°-80°)	1691.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	142.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9
2.5°	2060.8	2058.6	2054.2	2058.6	2060.8	2065.2	2063.0	2067.4	2065.2	2071.7	2082.7
5°	2008.3	2004.0	2001.8	2012.7	2019.3	2030.2	2034.6	2049.9	2047.7	2058.6	2076.1
7.5°	1949.3	1949.3	1947.2	1960.3	1969.0	1988.7	2004.0	2030.2	2032.4	2052.1	2071.7
10°	1903.5	1905.6	1903.5	1914.4	1927.5	1951.5	1977.8	2014.9	2017.1	2045.5	2065.2
12.5°	1886.0	1886.0	1886.0	1901.3	1918.7	1951.5	1982.1	2021.5	2025.8	2056.4	2073.9
15°	1910.0	1912.2	1907.8	1923.1	1942.8	1982.1	2010.5	2052.1	2056.4	2084.8	2095.8
17.5°	1995.2	2004.0	1993.1	2001.8	1997.4	2028.0	2054.2	2095.8	2097.9	2122.0	2126.4
20°	2163.5	2172.3	2154.8	2143.8	2104.5	2102.3	2113.2	2146.0	2146.0	2161.3	2150.4
22.5°	2423.6	2432.3	2401.7	2360.2	2266.2	2220.3	2196.3	2211.6	2209.4	2216.0	2187.5
25°	2768.9	2766.7	2729.5	2653.0	2502.2	2390.8	2331.8	2307.7	2307.7	2294.6	2259.7
27.5°	3197.2	3164.4	3098.8	3007.1	2797.3	2642.1	2515.4	2454.2	2443.2	2403.9	2338.3
30°	3653.9	3629.9	3535.9	3402.6	3160.0	2961.2	2751.4	2629.0	2622.4	2537.2	2438.9
32.5°	4191.5	4152.2	4047.3	3887.8	3597.1	3317.4	3055.1	2869.4	2858.5	2723.0	2587.5
35°	4882.1	4849.3	4646.1	4486.6	4112.9	3745.7	3435.4	3188.4	3179.7	3013.6	2841.0
37.5°	5710.4	5625.1	5428.4	5129.0	4735.7	4300.8	3907.4	3597.1	3586.2	3402.6	3184.1
40°	6449.0	6372.5	6197.7	5922.3	5500.6	5017.6	4484.4	4108.5	4097.6	3874.6	3599.3
42.5°	6995.3	6942.9	6829.3	6669.7	6368.1	6075.3	5220.8	4726.9	4707.3	4418.8	4075.7
45°	7312.2	7270.7	7205.1	7244.5	7240.1	7185.5	6099.3	5463.4	5400.0	5026.3	4606.7
47.5°	7235.7	7198.6	7224.8	7530.8	7952.5	8269.4	7122.1	6217.4	6132.1	5644.8	5172.8
50°	6682.8	6698.1	6835.8	7421.5	8367.8	9071.4	8256.3	7076.2	6962.6	6267.6	5710.4
52.5°	5675.4	5712.5	6046.9	6866.4	8321.9	9591.6	9281.2	7963.5	7812.7	6875.2	6199.9
55°	4508.4	4602.4	5035.1	5896.1	7723.1	9628.7	10054.9	8855.1	8689.0	7445.5	6626.0
57.5°	3334.9	3474.7	3975.2	4766.3	6575.8	9040.8	10441.7	9707.4	9506.3	8011.5	7076.2
60°	2115.4	2200.7	2777.6	3710.7	5032.9	7602.9	10391.4	10432.9	10258.1	8575.4	7546.1
62.5°	1350.6	1392.1	1682.7	2646.5	3518.4	5629.5	9842.9	10981.5	10863.4	9088.9	7991.9
65°	867.6	885.1	1033.7	1628.1	2395.2	3398.2	8477.0	11040.5	11055.8	9410.2	8267.2
67.5°	705.9	714.6	769.2	1005.3	1693.7	1877.2	5904.9	10201.3	10387.0	9327.1	8173.3
70°	642.5	653.4	710.2	802.0	1311.2	1295.9	2858.5	8536.0	8839.8	8848.5	7755.9
72.5°	542.0	557.3	633.8	758.3	1014.0	1022.8	1210.7	6079.7	6527.7	7908.8	7128.7
75°	452.4	461.1	526.7	668.7	858.8	817.3	850.1	3223.4	3870.3	6341.9	6462.1
77.5°	367.1	375.9	424.0	533.2	762.7	635.9	668.7	1335.3	1649.9	4305.2	5282.0
80°	262.2	271.0	325.6	415.2	576.9	572.6	496.1	736.5	799.8	2327.4	3431.0
82.5°	187.9	194.5	246.9	297.2	399.9	574.8	373.7	500.4	524.5	1031.5	1383.3
85°	126.8	126.8	170.5	196.7	257.9	362.8	301.6	338.7	354.0	489.5	373.7
87.5°	54.6	54.6	91.8	100.5	135.5	168.3	225.1	170.5	174.8	264.4	153.0
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°	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9
2.5°	2089.2	2091.4	2095.8	2108.9	2117.6	2130.7	2137.3	2146.0	2146.0	2141.7	2143.8
5°	2084.8	2091.4	2106.7	2130.7	2146.0	2170.1	2187.5	2200.7	2205.0	2200.7	2202.8
7.5°	2082.7	2093.6	2119.8	2154.8	2176.6	2207.2	2231.3	2246.6	2257.5	2253.1	2255.3
10°	2076.1	2093.6	2126.4	2170.1	2202.8	2233.4	2255.3	2261.9	2268.4	2264.0	2261.9
12.5°	2084.8	2104.5	2139.5	2191.9	2229.1	2253.1	2259.7	2248.7	2233.4	2224.7	2222.5
15°	2102.3	2122.0	2157.0	2211.6	2244.4	2253.1	2237.8	2202.8	2167.9	2148.2	2146.0
17.5°	2126.4	2139.5	2167.9	2216.0	2242.2	2231.3	2200.7	2159.1	2132.9	2117.6	2119.8
20°	2141.7	2141.7	2163.5	2200.7	2222.5	2213.8	2176.6	2130.7	2089.2	2069.5	2063.0
22.5°	2163.5	2152.6	2154.8	2187.5	2218.1	2205.0	2126.4	2045.5	1986.5	1964.6	1962.5
25°	2222.5	2191.9	2172.3	2191.9	2264.0	2157.0	1999.6	1905.6	1851.0	1831.3	1833.5
27.5°	2294.6	2253.1	2211.6	2244.4	2301.2	2047.7	1837.9	1730.8	1698.0	1682.7	1689.3
30°	2366.7	2312.1	2257.5	2375.5	2275.0	1877.2	1630.3	1525.4	1497.0	1486.0	1494.8
32.5°	2500.1	2410.5	2344.9	2550.3	2194.1	1682.7	1405.2	1309.0	1282.8	1269.7	1265.3
35°	2723.0	2609.3	2543.8	2703.3	2080.5	1466.4	1199.8	1132.0	1103.6	1075.2	1070.8
37.5°	3044.2	2906.5	2847.5	2790.7	1920.9	1252.2	1042.4	996.5	955.0	911.3	909.1
40°	3428.8	3249.6	3205.9	2830.0	1700.2	1051.2	933.2	889.4	837.0	795.5	797.7
42.5°	3872.5	3643.0	3549.0	2819.1	1427.0	944.1	854.5	806.4	760.5	723.4	721.2
45°	4346.7	4086.6	3870.3	2742.6	1156.1	869.8	806.4	749.6	703.7	662.2	657.8
47.5°	4871.2	4580.5	4167.5	2594.0	955.0	817.3	778.0	697.1	655.6	629.4	629.4
50°	5400.0	5052.6	4440.7	2368.9	837.0	778.0	736.5	668.7	635.9	614.1	614.1
52.5°	5852.4	5544.3	4665.8	2100.1	762.7	745.2	708.1	655.6	620.6	601.0	598.8
55°	6291.7	6001.0	4866.8	1833.5	701.5	701.5	701.5	644.7	605.3	587.9	585.7
57.5°	6728.7	6481.8	5076.6	1658.7	646.9	664.4	688.4	631.6	592.2	576.9	574.8
60°	7222.6	7058.7	5319.2	1536.3	598.8	625.0	670.9	616.3	570.4	557.3	555.1
62.5°	7747.1	7747.1	5539.9	1363.7	555.1	592.2	644.7	596.6	550.7	539.8	537.6
65°	8158.0	8335.0	5681.9	1105.8	511.4	559.5	614.1	570.4	524.5	522.3	517.9
67.5°	8206.0	8483.6	5592.3	834.8	472.0	524.5	583.5	542.0	498.3	498.3	491.7
70°	7860.8	8142.7	5312.6	625.0	443.6	489.5	544.2	507.0	465.5	469.9	458.9
72.5°	7283.8	7353.7	4617.7	493.9	410.8	452.4	496.1	467.7	430.5	430.5	415.2
75°	6523.3	6134.3	3354.5	413.0	371.5	408.7	448.0	424.0	391.2	380.3	371.5
77.5°	5192.4	4445.0	1949.3	356.2	338.7	367.1	393.4	375.9	347.5	323.4	323.4
80°	3164.4	2605.0	861.0	308.1	299.4	321.2	338.7	319.1	295.0	271.0	264.4
82.5°	1204.1	1005.3	417.4	264.4	262.2	275.4	288.5	268.8	251.3	240.4	207.6
85°	330.0	303.8	286.3	220.7	216.4	214.2	229.5	220.7	196.7	161.7	144.2
87.5°	124.6	142.0	155.2	135.5	144.2	133.3	153.0	139.9	124.6	80.9	72.1
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)