

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: P399393

Luminaire Tested: **ARCH-L-PA3-130-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399393
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-PA3-130-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 16736 lumens
Efficiency: N/A
Efficacy: 125.8 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

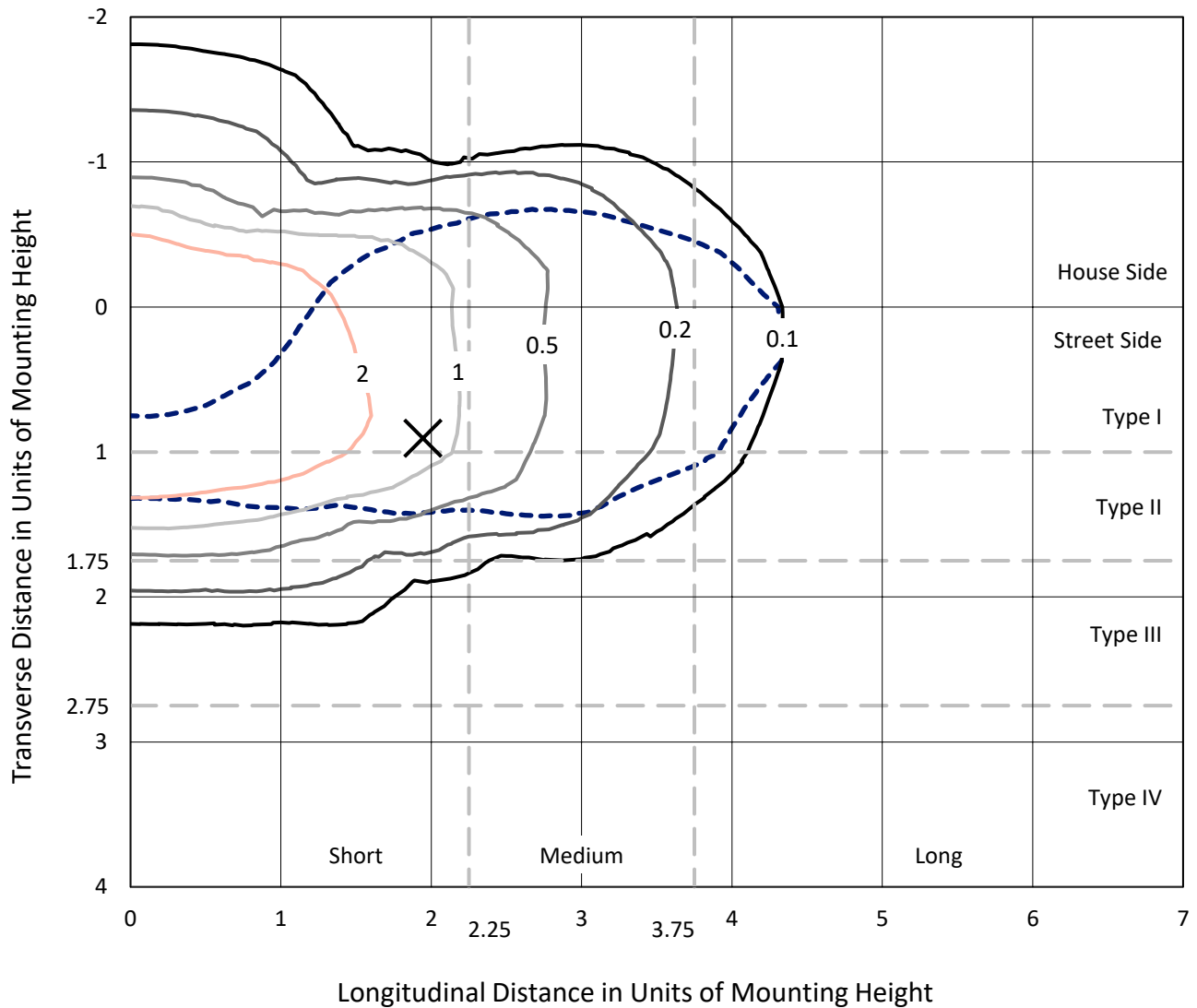
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

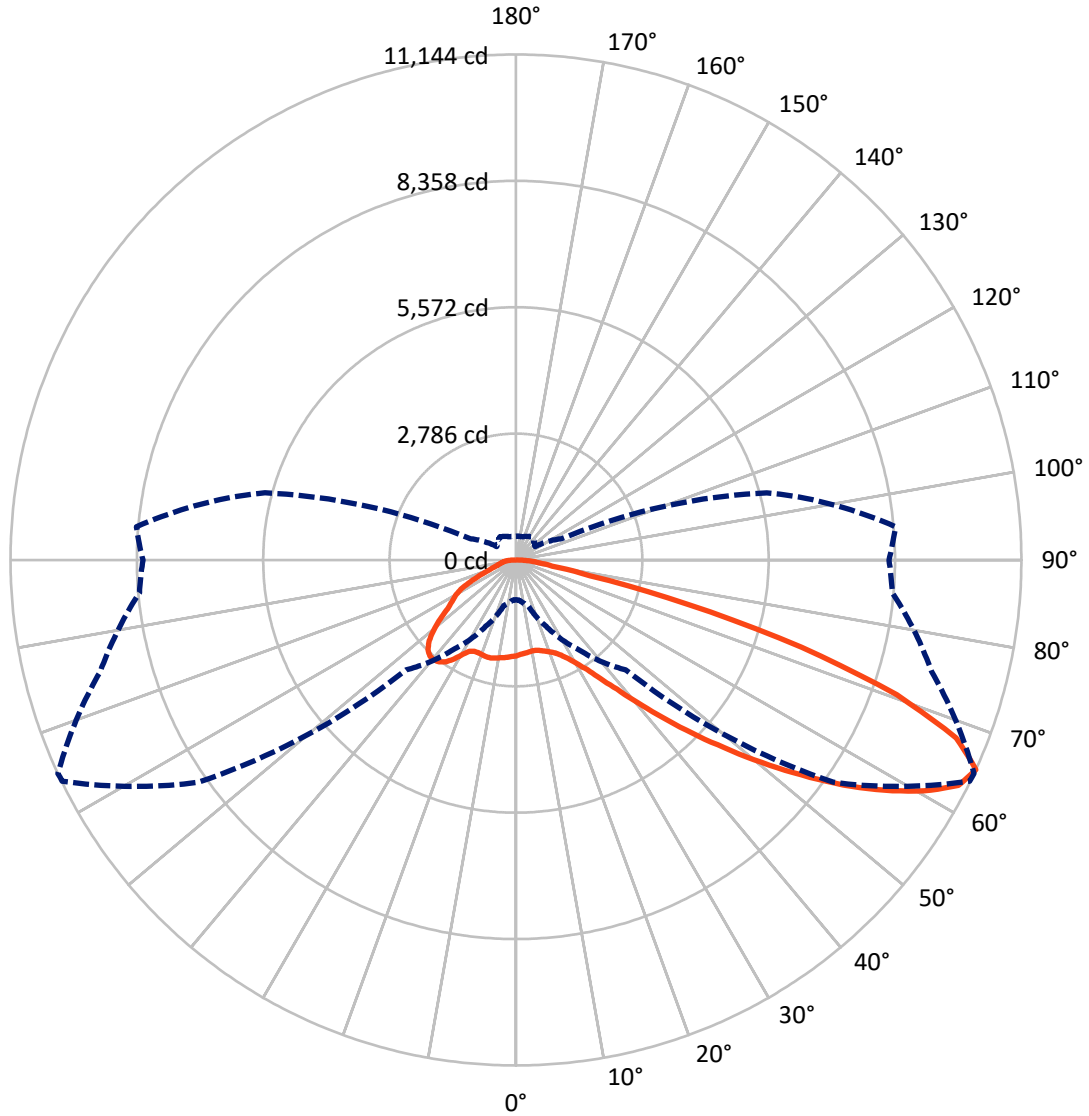
✕ Max cd
 - - - 1/2 Max cd



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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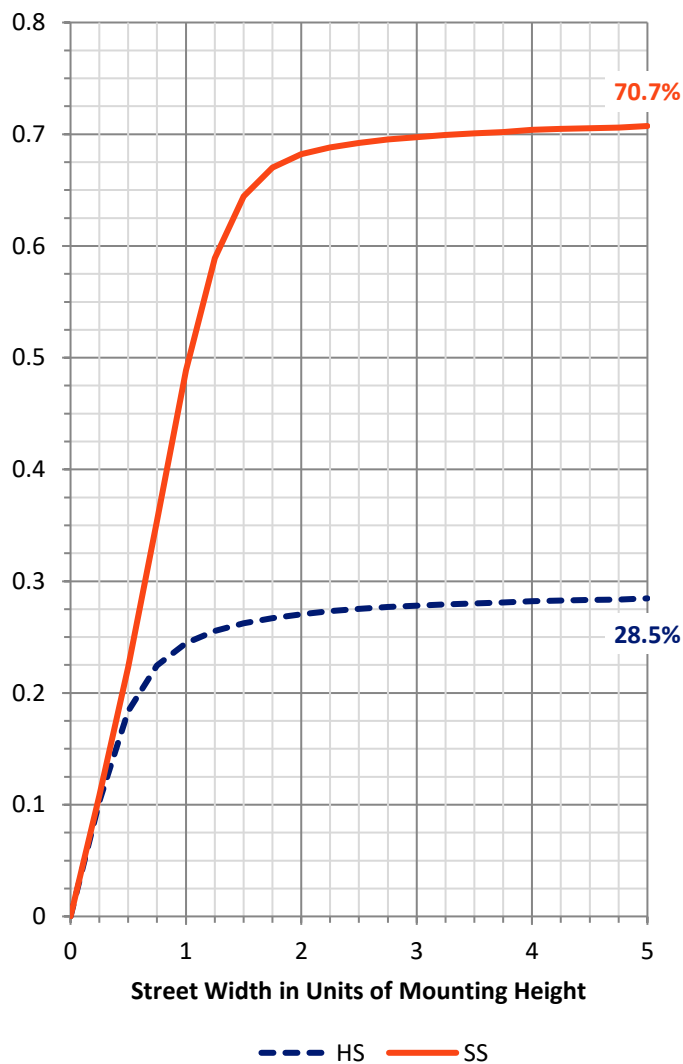
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4838.6	0.0	4838.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	11897.4	0.0	11897.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	16736.0	0.0	16736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.2
10°-20°	601.5	3.6
20°-30°	1068.5	6.4
30°-40°	1807.6	10.8
40°-50°	3146.7	18.8
50°-60°	4066.5	24.3
60°-70°	3558.4	21.3
70°-80°	1935.5	11.6
80°-90°	349.7	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°	16736.0	100.0
0°-180°	16736.0	100.0

Coefficient of Utilization



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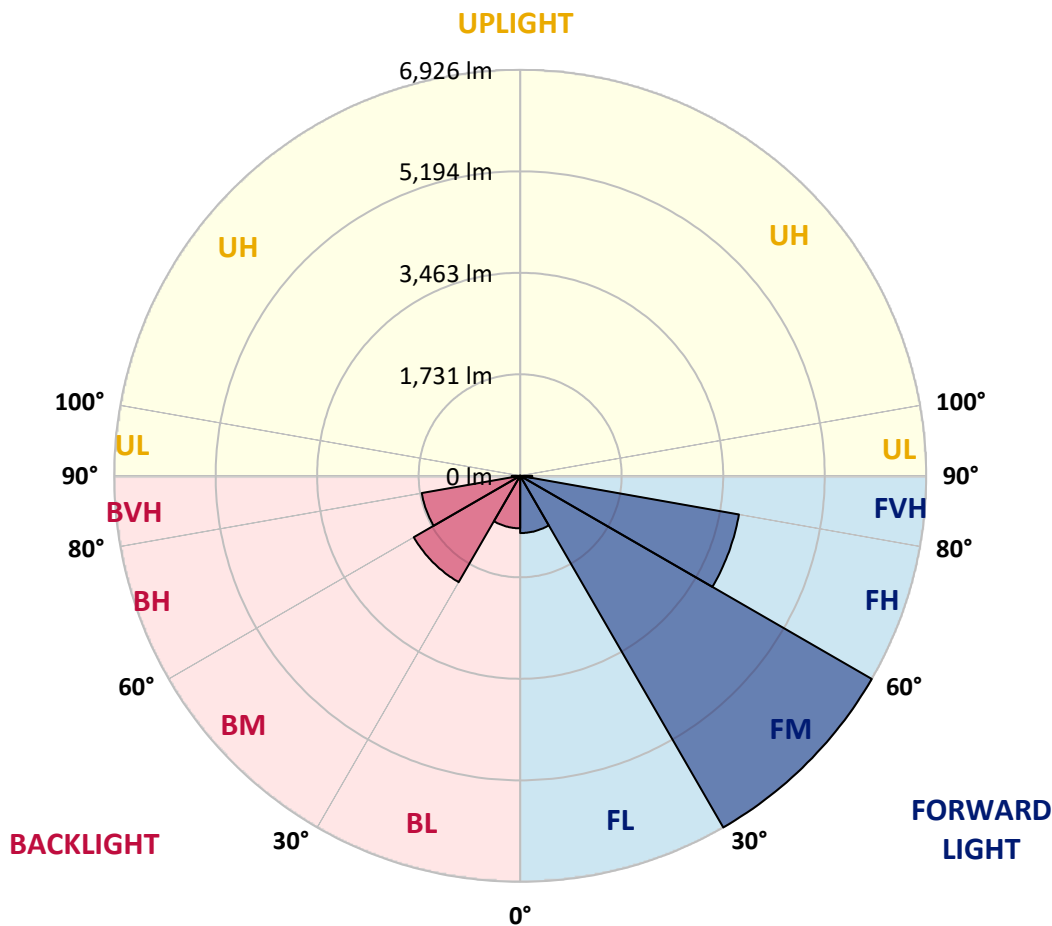
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.5	5.8			
FM (30°-60°)	6925.8	41.4			
FH (60°-80°)	3789.3	22.6			G2/5000
FVH (80°-90°)	205.8	1.2			G2/225
BL (0°-30°)	895.0	5.3	B2/1000		
BM (30°-60°)	2095.0	12.5	B2/2500		
BH (60°-80°)	1704.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	143.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8
2.5°	2077.3	2075.1	2070.7	2075.1	2077.3	2081.7	2079.5	2083.9	2081.7	2088.3	2099.3
5°	2024.4	2020.0	2017.8	2028.8	2035.5	2046.5	2050.9	2066.3	2064.1	2075.1	2092.7
7.5°	1965.0	1965.0	1962.8	1976.0	1984.8	2004.6	2020.0	2046.5	2048.7	2068.5	2088.3
10°	1918.7	1920.9	1918.7	1929.7	1942.9	1967.2	1993.6	2031.0	2033.2	2061.9	2081.7
12.5°	1901.1	1901.1	1901.1	1916.5	1934.1	1967.2	1998.0	2037.7	2042.1	2072.9	2090.5
15°	1925.3	1927.5	1923.1	1938.5	1958.4	1998.0	2026.6	2068.5	2072.9	2101.5	2112.6
17.5°	2011.2	2020.0	2009.0	2017.8	2013.4	2044.3	2070.7	2112.6	2114.8	2139.0	2143.4
20°	2180.8	2189.7	2172.0	2161.0	2121.4	2119.2	2130.2	2163.2	2163.2	2178.6	2167.6
22.5°	2443.0	2451.8	2421.0	2379.1	2284.4	2238.1	2213.9	2229.3	2227.1	2233.7	2205.1
25°	2791.0	2788.8	2751.4	2674.3	2522.3	2409.9	2350.5	2326.2	2326.2	2313.0	2277.8
27.5°	3222.8	3189.8	3123.7	3031.1	2819.7	2663.3	2535.5	2473.8	2462.8	2423.2	2357.1
30°	3683.2	3659.0	3564.2	3429.9	3185.3	2984.9	2773.4	2650.1	2643.4	2557.5	2458.4
32.5°	4225.1	4185.5	4079.7	3918.9	3625.9	3344.0	3079.6	2892.4	2881.4	2744.8	2608.2
35°	4921.2	4888.2	4683.3	4522.5	4145.8	3775.7	3462.9	3214.0	3205.2	3037.8	2863.7
37.5°	5756.1	5670.2	5471.9	5170.1	4773.6	4335.2	3938.7	3625.9	3614.9	3429.9	3209.6
40°	6500.7	6423.6	6247.3	5969.8	5544.6	5057.8	4520.3	4141.4	4130.4	3905.7	3628.1
42.5°	7051.4	6998.5	6884.0	6723.2	6419.2	6124.0	5262.7	4764.8	4745.0	4454.2	4108.4
45°	7370.8	7328.9	7262.9	7302.5	7298.1	7243.0	6148.2	5507.2	5443.3	5066.6	4643.6
47.5°	7293.7	7256.3	7282.7	7591.1	8016.2	8335.7	7179.2	6267.2	6181.3	5690.0	5214.2
50°	6736.4	6751.8	6890.6	7480.9	8434.8	9144.1	8322.4	7132.9	7018.3	6317.8	5756.1
52.5°	5720.9	5758.3	6095.3	6921.4	8388.5	9668.4	9355.6	8027.3	7875.3	6930.2	6249.5
55°	4544.5	4639.2	5075.4	5943.3	7784.9	9705.8	10135.4	8926.0	8758.6	7505.2	6679.1
57.5°	3361.6	3502.6	4007.0	4804.5	6628.4	9113.3	10525.3	9785.1	9582.5	8075.7	7132.9
60°	2132.4	2218.3	2799.8	3740.5	5073.2	7663.8	10474.6	10516.5	10340.3	8644.1	7606.5
62.5°	1361.4	1403.2	1696.2	2667.7	3546.6	5674.6	9921.7	11069.4	10950.5	9161.7	8055.9
65°	874.5	892.2	1042.0	1641.1	2414.3	3425.5	8544.9	11128.9	11144.3	9485.6	8333.5
67.5°	711.5	720.3	775.4	1013.3	1707.2	1892.3	5952.2	10283.0	10470.2	9401.8	8238.7
70°	647.6	658.7	715.9	808.5	1321.7	1306.3	2881.4	8604.4	8910.6	8919.4	7818.0
72.5°	546.3	561.7	638.8	764.4	1022.1	1030.9	1220.4	6128.4	6580.0	7972.2	7185.8
75°	456.0	464.8	530.9	674.1	865.7	823.9	856.9	3249.2	3901.3	6392.7	6513.9
77.5°	370.1	378.9	427.4	537.5	768.8	641.0	674.1	1346.0	1663.2	4339.7	5324.3
80°	264.3	273.2	328.2	418.5	581.6	577.2	500.1	742.4	806.3	2346.1	3458.5
82.5°	189.4	196.1	248.9	299.6	403.1	579.4	376.7	504.5	528.7	1039.8	1394.4
85°	127.8	127.8	171.8	198.3	259.9	365.7	304.0	341.4	356.9	493.4	376.7
87.5°	55.1	55.1	92.5	101.3	136.6	169.6	226.9	171.8	176.2	266.5	154.2
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°	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8
2.5°	2105.9	2108.1	2112.6	2125.8	2134.6	2147.8	2154.4	2163.2	2163.2	2158.8	2161.0
5°	2101.5	2108.1	2123.6	2147.8	2163.2	2187.4	2205.1	2218.3	2222.7	2218.3	2220.5
7.5°	2099.3	2110.3	2136.8	2172.0	2194.1	2224.9	2249.1	2264.5	2275.6	2271.2	2273.4
10°	2092.7	2110.3	2143.4	2187.4	2220.5	2251.3	2273.4	2280.0	2286.6	2282.2	2280.0
12.5°	2101.5	2121.4	2156.6	2209.5	2246.9	2271.2	2277.8	2266.8	2251.3	2242.5	2240.3
15°	2119.2	2139.0	2174.2	2229.3	2262.3	2271.2	2255.7	2220.5	2185.2	2165.4	2163.2
17.5°	2143.4	2156.6	2185.2	2233.7	2260.1	2249.1	2218.3	2176.4	2150.0	2134.6	2136.8
20°	2158.8	2158.8	2180.8	2218.3	2240.3	2231.5	2194.1	2147.8	2105.9	2086.1	2079.5
22.5°	2180.8	2169.8	2172.0	2205.1	2235.9	2222.7	2143.4	2061.9	2002.4	1980.4	1978.2
25°	2240.3	2209.5	2189.7	2209.5	2282.2	2174.2	2015.6	1920.9	1865.8	1846.0	1848.2
27.5°	2313.0	2271.2	2229.3	2262.3	2319.6	2064.1	1852.6	1744.7	1711.6	1696.2	1702.8
30°	2385.7	2330.6	2275.6	2394.5	2293.2	1892.3	1643.3	1537.6	1509.0	1498.0	1506.8
32.5°	2520.1	2429.8	2363.7	2570.7	2211.7	1696.2	1416.4	1319.5	1293.1	1279.9	1275.5
35°	2744.8	2630.2	2564.1	2724.9	2097.1	1478.1	1209.4	1141.1	1112.4	1083.8	1079.4
37.5°	3068.6	2929.8	2870.3	2813.1	1936.3	1262.2	1050.8	1004.5	962.7	918.6	916.4
40°	3456.3	3275.7	3231.6	2852.7	1713.8	1059.6	940.6	896.6	843.7	801.8	804.0
42.5°	3903.5	3672.2	3577.5	2841.7	1438.5	951.6	861.3	812.9	766.6	729.1	726.9
45°	4381.5	4119.4	3901.3	2764.6	1165.3	876.7	812.9	755.6	709.3	667.5	663.1
47.5°	4910.2	4617.2	4200.9	2614.8	962.7	823.9	784.2	702.7	660.9	634.4	634.4
50°	5443.3	5093.0	4476.2	2387.9	843.7	784.2	742.4	674.1	641.0	619.0	619.0
52.5°	5899.3	5588.7	4703.1	2117.0	768.8	751.2	713.7	660.9	625.6	605.8	603.6
55°	6342.1	6049.1	4905.8	1848.2	707.1	707.1	707.1	649.8	610.2	592.6	590.4
57.5°	6782.6	6533.7	5117.3	1672.0	652.0	669.7	693.9	636.6	597.0	581.6	579.4
60°	7280.5	7115.3	5361.8	1548.6	603.6	630.0	676.3	621.2	574.9	561.7	559.5
62.5°	7809.2	7809.2	5584.3	1374.6	559.5	597.0	649.8	601.4	555.1	544.1	541.9
65°	8223.3	8401.7	5727.5	1114.7	515.5	563.9	619.0	574.9	528.7	526.5	522.1
67.5°	8271.8	8551.5	5637.1	841.5	475.8	528.7	588.2	546.3	502.3	502.3	495.6
70°	7923.7	8207.9	5355.2	630.0	447.2	493.4	548.5	511.1	469.2	473.6	462.6
72.5°	7342.2	7412.7	4654.7	497.8	414.1	456.0	500.1	471.4	434.0	434.0	418.5
75°	6575.6	6183.5	3381.4	416.3	374.5	411.9	451.6	427.4	394.3	383.3	374.5
77.5°	5234.0	4480.6	1965.0	359.1	341.4	370.1	396.5	378.9	350.3	326.0	326.0
80°	3189.8	2625.8	867.9	310.6	301.8	323.8	341.4	321.6	297.4	273.2	266.5
82.5°	1213.8	1013.3	420.7	266.5	264.3	277.6	290.8	271.0	253.3	242.3	209.3
85°	332.6	306.2	288.6	222.5	218.1	215.9	231.3	222.5	198.3	163.0	145.4
87.5°	125.6	143.2	156.4	136.6	145.4	134.4	154.2	141.0	125.6	81.5	72.7
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)