

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: P399781

Luminaire Tested: **ARCH-L-PA3-190-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18405 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

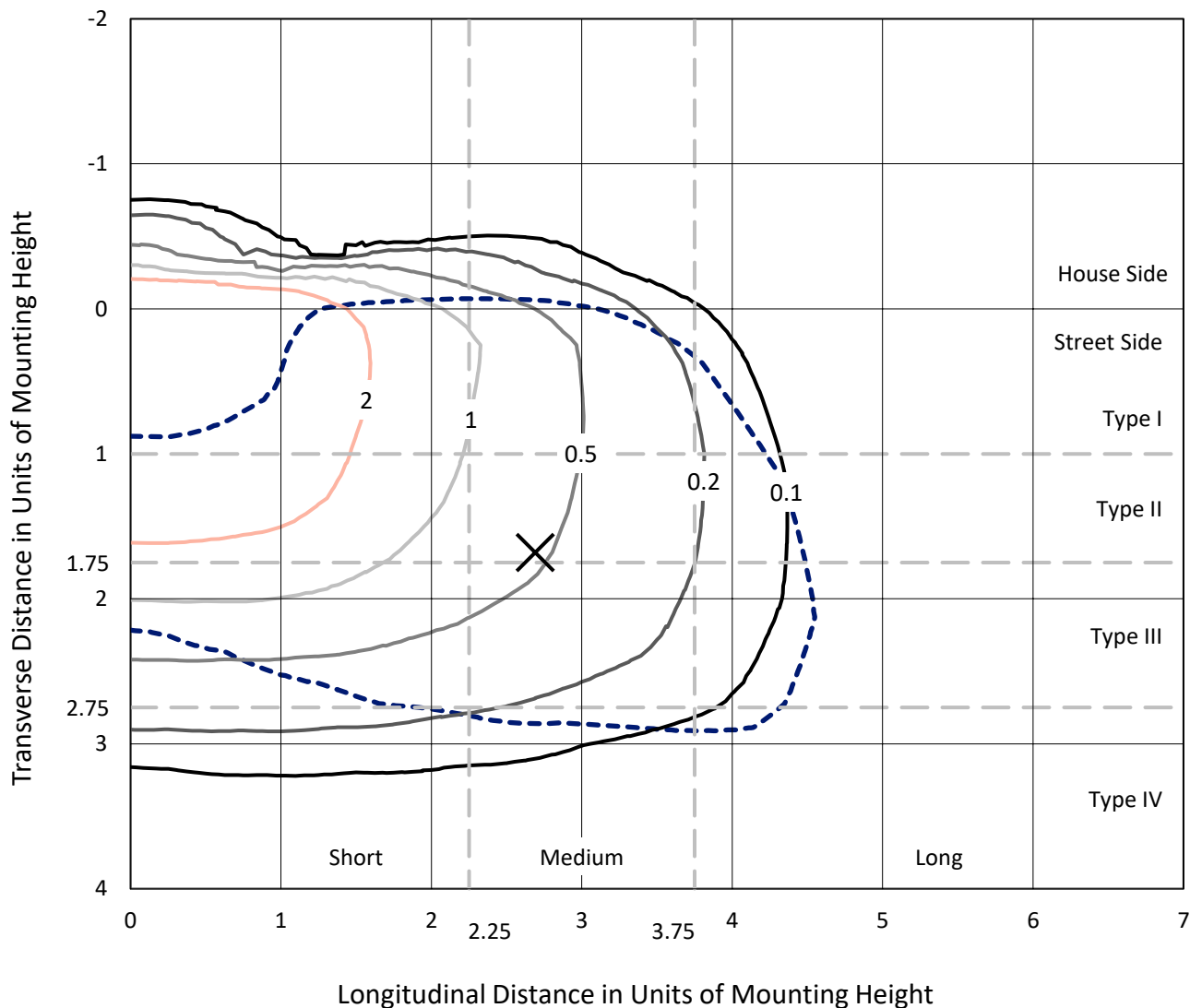
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399781
 CATALOG NUMBER: ARCH-L-PA3-190-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

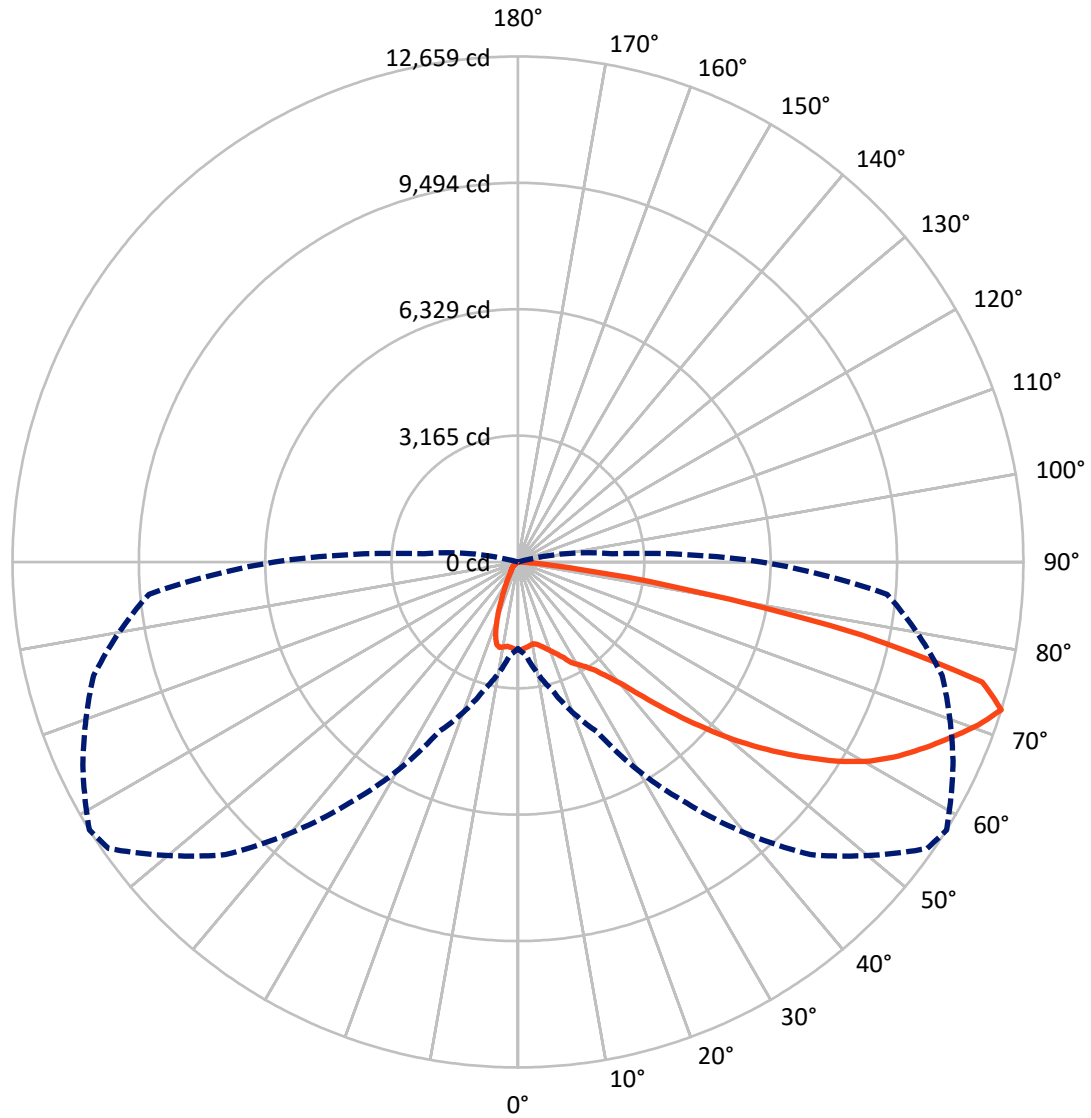
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399781
CATALOG NUMBER: ARCH-L-PA3-190-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P399781
 CATALOG NUMBER: ARCH-L-PA3-190-730-U-T3-HSS

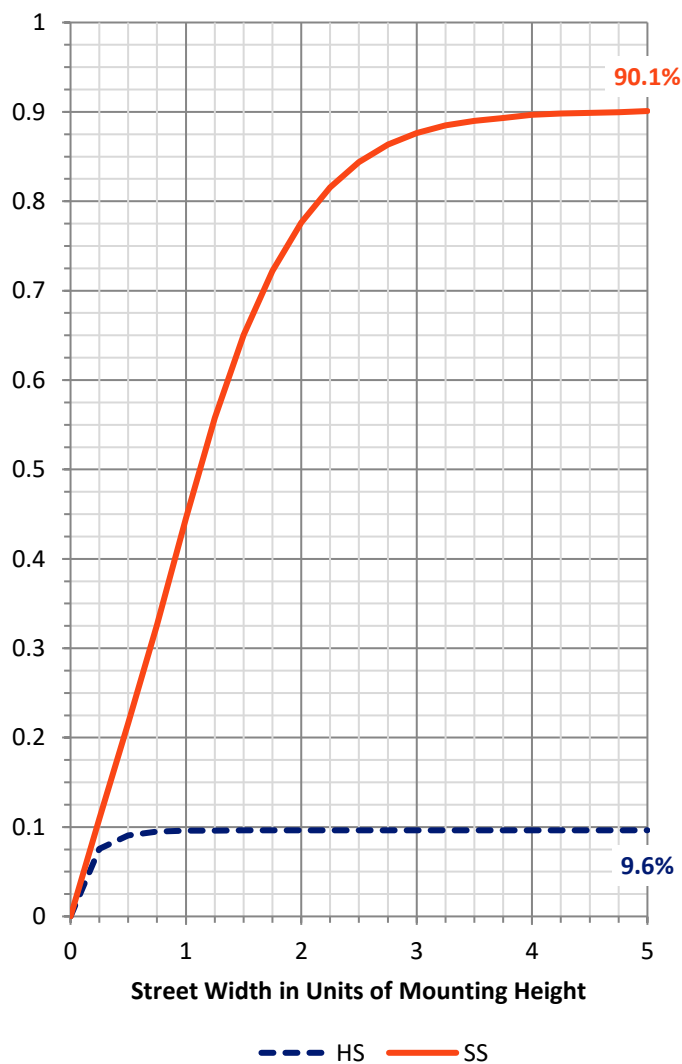
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1789.8	0.0	1789.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	16615.2	0.0	16615.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	18405.0	0.0	18405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	1.1
10°-20°	527.9	2.9
20°-30°	829.3	4.5
30°-40°	1430.2	7.8
40°-50°	2721.1	14.8
50°-60°	4309.3	23.4
60°-70°	5028.5	27.3
70°-80°	3149.4	17.1
80°-90°	206.7	1.1
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°	18405.0	100.0
0°-180°	18405.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399781

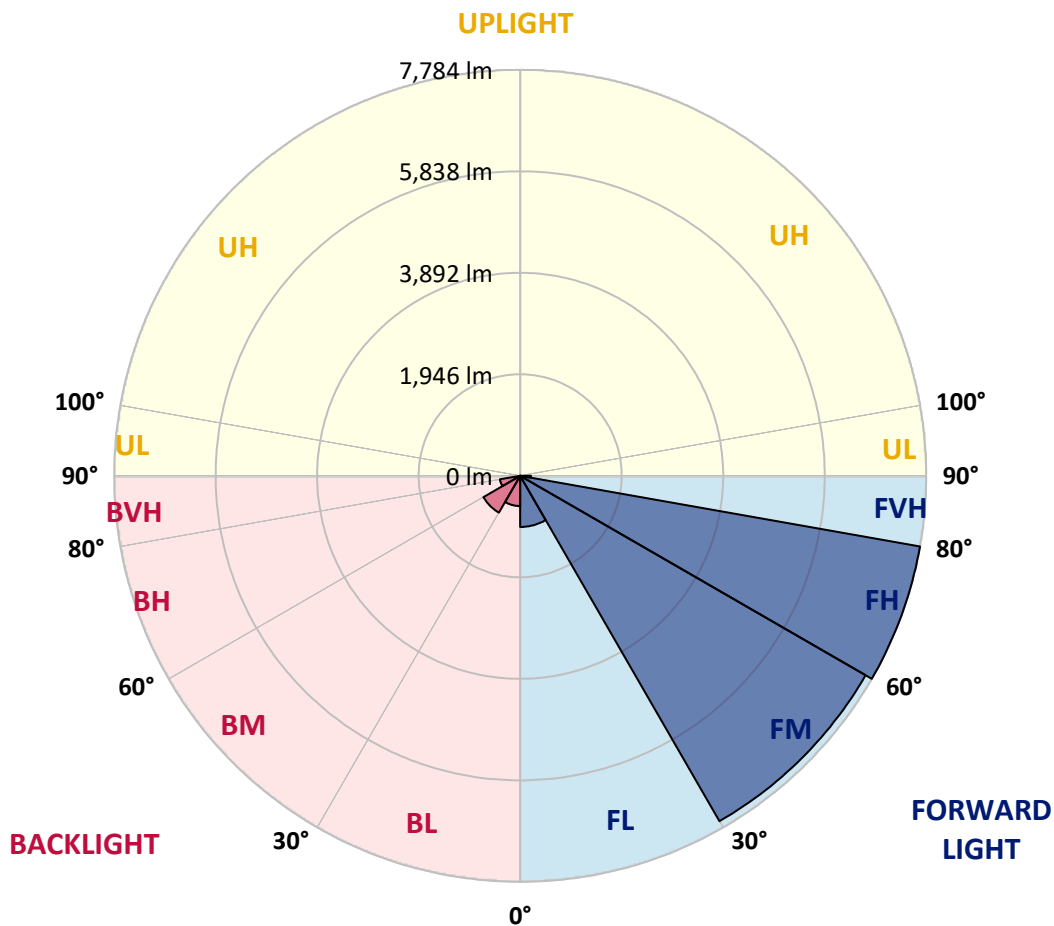
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.3	5.3			
FM (30°-60°)	7646.2	41.5			
FH (60°-80°)	7784.0	42.3			G4/12000
FVH (80°-90°)	204.7	1.1			G2/225
BL (0°-30°)	579.6	3.1	B2/1000		
BM (30°-60°)	814.4	4.4	B1/1000		
BH (60°-80°)	393.8	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





REPORT NUMBER: P399781

CATALOG NUMBER: ARCH-L-PA3-190-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5
2.5°	2198.6	2188.7	2185.4	2182.2	2185.4	2188.7	2178.9	2188.7	2182.2	2185.4	2192.0
5°	2119.6	2109.7	2106.5	2109.7	2119.6	2136.1	2142.7	2152.5	2152.5	2162.4	2165.7
7.5°	2030.8	2024.2	2020.9	2027.5	2047.2	2083.4	2103.2	2116.3	2129.5	2149.2	2169.0
10°	1981.4	1978.1	1974.8	1984.7	2004.4	2037.3	2063.7	2083.4	2132.8	2188.7	2224.9
12.5°	1948.5	1948.5	1955.1	1974.8	2001.1	2027.5	2090.0	2116.3	2192.0	2277.6	2327.0
15°	1922.1	1922.1	1932.0	1968.2	2004.4	2067.0	2159.1	2188.7	2277.6	2382.9	2448.8
17.5°	1902.4	1909.0	1915.6	1951.8	2020.9	2126.2	2234.8	2277.6	2386.2	2501.4	2573.8
20°	1905.7	1912.3	1915.6	1951.8	2050.5	2195.3	2333.6	2382.9	2508.0	2629.8	2702.2
22.5°	1925.4	1935.3	1938.6	1988.0	2103.2	2267.7	2445.5	2501.4	2636.4	2764.7	2820.7
25°	2007.7	2014.3	1994.6	2037.3	2178.9	2379.6	2590.3	2649.5	2784.5	2903.0	2949.0
27.5°	2287.5	2294.1	2185.4	2136.1	2238.1	2471.8	2768.0	2850.3	3018.2	3097.1	3103.7
30°	2893.1	2899.7	2685.7	2452.0	2379.6	2550.8	2866.8	2982.0	3199.2	3288.0	3248.6
32.5°	3673.1	3666.6	3373.6	3028.0	2715.4	2689.0	3008.3	3130.1	3367.0	3452.6	3423.0
35°	4456.5	4466.3	4216.2	3696.2	3248.6	2949.0	3189.3	3330.8	3617.2	3739.0	3686.3
37.5°	4993.0	5058.8	4950.2	4387.4	3903.5	3429.6	3482.2	3633.6	3992.4	4157.0	4045.1
40°	5750.0	5733.5	5470.2	5055.5	4627.6	4140.5	3956.2	4028.6	4440.0	4660.5	4486.1
42.5°	6767.0	6734.1	6286.5	5881.6	5404.4	5006.1	4630.9	4617.7	4953.5	5210.2	4956.8
45°	7688.6	7639.2	7333.1	6941.4	6418.1	5960.6	5453.7	5338.6	5572.2	5789.5	5493.2
47.5°	8422.5	8340.3	8123.0	7915.7	7787.3	7076.4	6316.1	6141.6	6260.1	6421.4	6003.4
50°	9291.4	9064.3	8748.4	8623.3	8889.9	8340.3	7145.5	6977.6	6971.1	7063.2	6530.0
52.5°	9686.4	9275.0	9097.3	9202.6	9673.2	9515.3	8040.7	7800.5	7705.0	7714.9	7020.4
55°	9209.2	9163.1	9258.5	9587.7	10203.1	10111.0	8899.8	8603.6	8462.0	8284.3	7491.1
57.5°	8666.1	8807.6	9186.1	9814.8	10874.6	10733.1	9745.7	9409.9	9149.9	8741.8	8014.4
60°	8165.8	8310.6	8936.0	9867.4	11243.2	11332.1	10450.0	10130.7	9745.7	9209.2	8590.4
62.5°	7405.5	7517.4	8396.2	9791.7	11081.9	11681.0	10940.4	10700.1	10341.4	9653.5	9252.0
65°	6549.8	6622.2	7491.1	9186.1	10766.0	11641.5	11345.2	11210.3	10861.4	10117.6	9906.9
67.5°	5611.7	5697.3	6421.4	8096.7	10147.2	11457.1	11727.0	11713.9	11315.6	10631.0	10380.9
70°	4532.2	4538.8	5137.8	6714.3	9067.6	11088.5	12201.0	12230.6	11750.1	11016.1	10400.6
72.5°	2169.0	2346.7	3330.8	4686.9	7369.3	10364.4	12510.4	12658.5	12023.3	11002.9	9278.3
75°	497.0	513.4	970.9	2228.2	4321.5	7955.2	11736.9	12013.4	11358.4	9515.3	6536.6
77.5°	181.0	190.9	273.2	651.7	1662.1	4110.9	8399.5	8804.3	8396.2	6151.5	3090.6
80°	121.8	118.5	141.5	289.6	763.6	1165.1	4295.2	4535.5	4140.5	2099.9	740.6
82.5°	62.5	65.8	98.7	161.3	513.4	404.8	1435.0	1560.1	1283.6	421.3	138.2
85°	29.6	29.6	56.0	102.0	217.2	141.5	319.3	385.1	345.6	184.3	46.1
87.5°	29.6	29.6	52.7	65.8	111.9	59.2	79.0	98.7	92.2	98.7	16.5
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: P399781

CATALOG NUMBER: ARCH-L-PA3-190-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5	2208.5
2.5°	2192.0	2188.7	2185.4	2192.0	2188.7	2195.3	2195.3	2201.9	2201.9	2195.3	2192.0
5°	2162.4	2155.8	2149.2	2149.2	2146.0	2152.5	2172.3	2188.7	2192.0	2182.2	2178.9
7.5°	2165.7	2165.7	2159.1	2146.0	2122.9	2122.9	2122.9	2142.7	2152.5	2146.0	2142.7
10°	2224.9	2228.2	2211.8	2182.2	2142.7	2106.5	2037.3	1935.3	1839.9	1813.5	1803.7
12.5°	2327.0	2330.3	2297.4	2244.7	2162.4	1948.5	1685.2	1441.6	1254.0	1201.3	1191.5
15°	2448.8	2452.0	2392.8	2307.2	2057.1	1560.1	1168.4	892.0	727.4	687.9	684.6
17.5°	2573.8	2567.2	2478.4	2313.8	1744.4	1105.9	710.9	569.4	526.6	516.7	520.0
20°	2695.6	2675.9	2554.1	2192.0	1342.9	724.1	520.0	487.1	477.2	470.7	470.7
22.5°	2807.5	2768.0	2616.6	1951.8	941.3	520.0	464.1	457.5	444.3	434.5	431.2
25°	2919.4	2863.5	2656.1	1639.1	631.9	454.2	437.7	424.6	408.1	395.0	391.7
27.5°	3054.4	2975.4	2636.4	1244.1	474.0	421.3	408.1	388.4	365.3	345.6	339.0
30°	3182.7	3093.9	2524.5	859.0	404.8	388.4	368.6	339.0	309.4	286.3	279.8
32.5°	3344.0	3242.0	2323.7	562.8	352.2	339.0	319.3	283.1	243.6	217.2	210.6
35°	3574.4	3459.2	2067.0	395.0	309.4	286.3	260.0	220.5	177.7	158.0	154.7
37.5°	3896.9	3742.3	1744.4	319.3	273.2	240.3	200.8	161.3	131.7	115.2	111.9
40°	4291.9	4054.9	1385.7	283.1	243.6	200.8	151.4	115.2	95.4	82.3	82.3
42.5°	4719.8	4347.9	1020.3	260.0	213.9	164.6	111.9	82.3	69.1	62.5	59.2
45°	5160.8	4607.9	687.9	240.3	187.6	125.1	79.0	56.0	46.1	46.1	42.8
47.5°	5618.3	4782.3	444.3	217.2	158.0	92.2	52.7	39.5	32.9	32.9	32.9
50°	6072.5	4874.5	316.0	197.5	128.4	62.5	39.5	29.6	26.3	26.3	26.3
52.5°	6401.7	4815.2	253.4	171.1	98.7	46.1	29.6	23.0	19.7	19.7	19.7
55°	6688.0	4713.2	220.5	148.1	72.4	32.9	23.0	19.7	16.5	16.5	16.5
57.5°	6980.9	4581.5	197.5	125.1	52.7	23.0	16.5	13.2	13.2	13.2	13.2
60°	7247.5	4357.7	171.1	98.7	36.2	16.5	13.2	9.9	9.9	9.9	9.9
62.5°	7507.5	4166.8	148.1	75.7	26.3	13.2	6.6	6.6	3.3	3.3	3.3
65°	7655.7	3910.1	118.5	49.4	16.5	9.9	3.3	3.3	0.0	0.0	0.0
67.5°	7609.6	3604.0	82.3	29.6	9.9	6.6	3.3	0.0	0.0	0.0	0.0
70°	7290.3	3192.6	49.4	16.5	9.9	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	6105.4	2363.2	29.6	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0
75°	4078.0	1086.1	16.5	9.9	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1866.2	325.8	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	375.2	85.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.0	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)