

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: P258058

Luminaire Tested: **ARCH-L-AF72-220-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-220-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17408.3 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

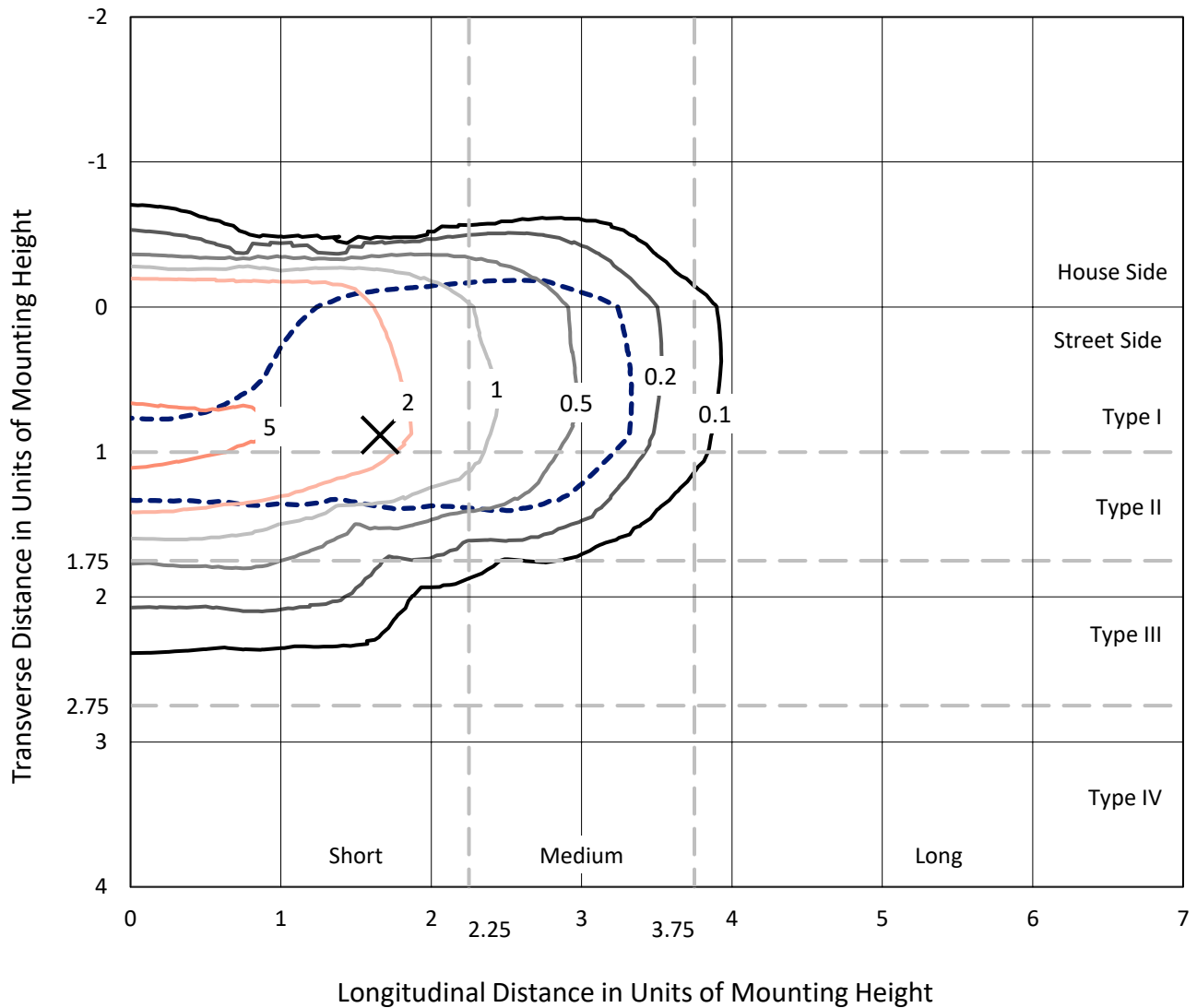
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

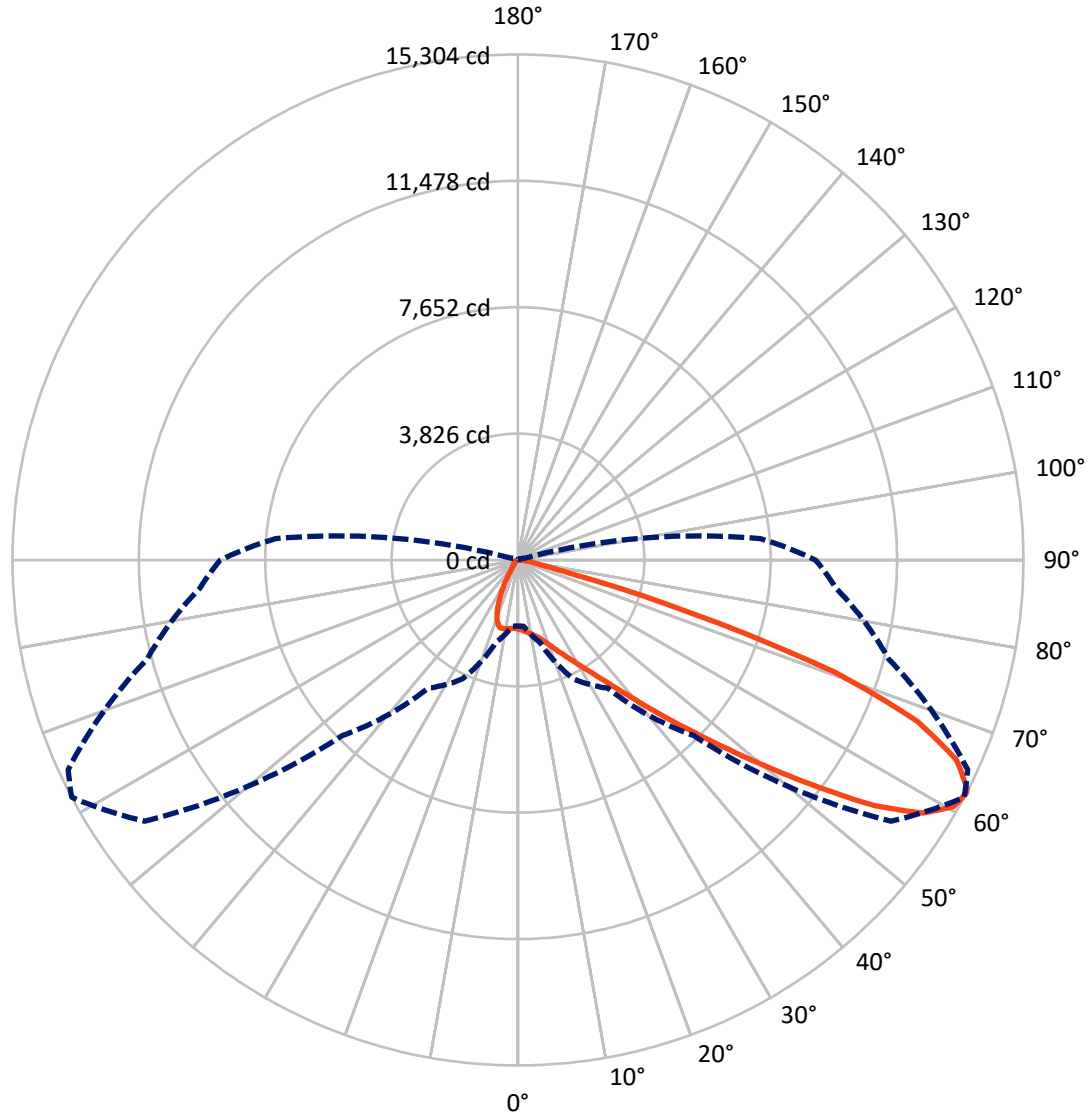
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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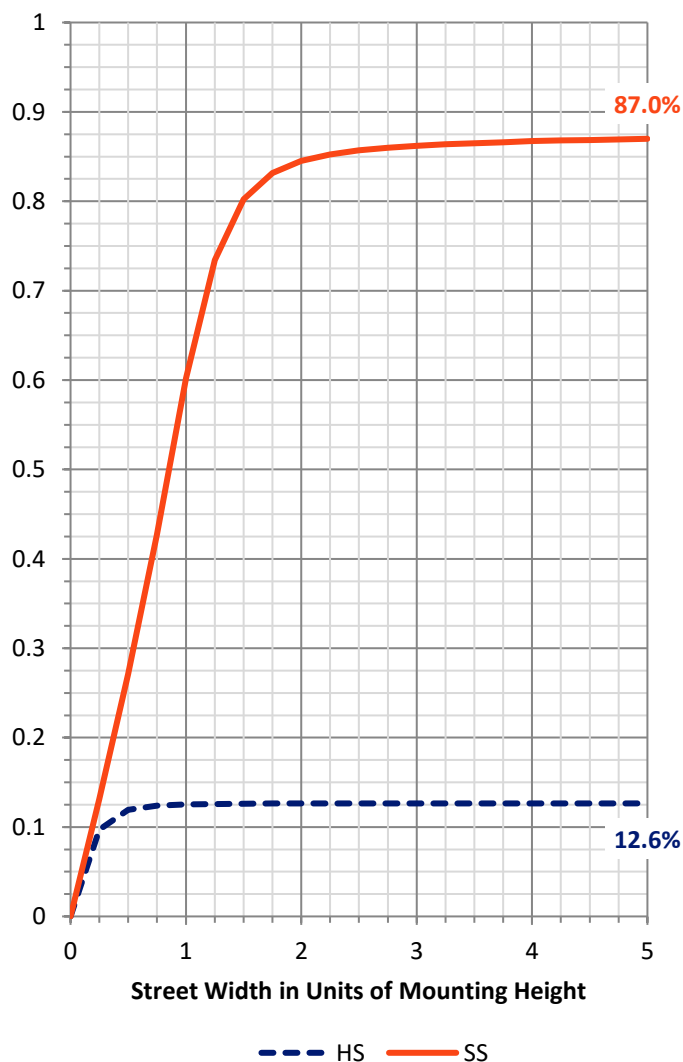
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.9	0.0	2225.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15182.4	0.0	15182.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	17408.3	0.0	17408.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.2
10°-20°	563.6	3.2
20°-30°	946.5	5.4
30°-40°	1814.3	10.4
40°-50°	3705.8	21.3
50°-60°	4904.0	28.2
60°-70°	3809.6	21.9
70°-80°	1375.1	7.9
80°-90°	87.6	0.5
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°	17408.3	100.0
0°-180°	17408.3	100.0

Coefficient of Utilization



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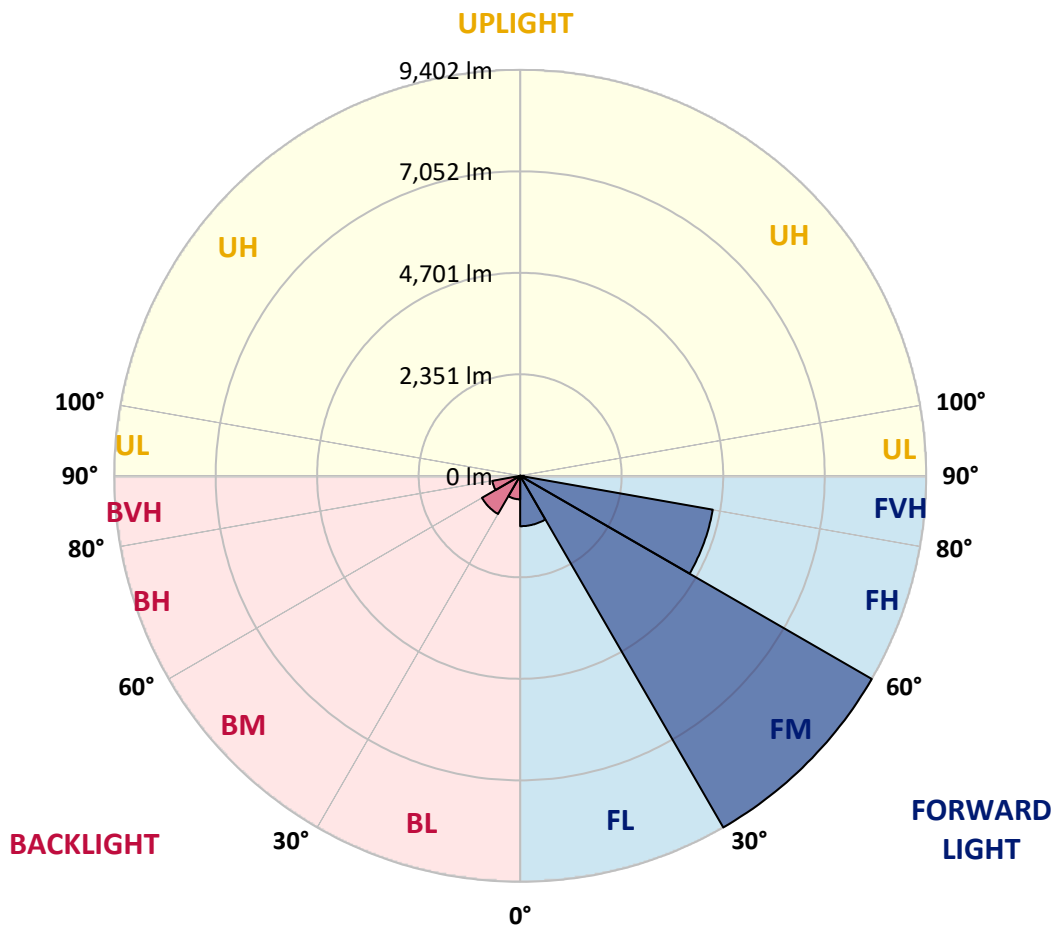
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.1	6.7			
FM (30°-60°)	9402.3	54.0			
FH (60°-80°)	4529.2	26.0			G2/5000
FVH (80°-90°)	83.8	0.5			G1/100
BL (0°-30°)	544.8	3.1	B2/1000		
BM (30°-60°)	1021.8	5.9	B2/2500		
BH (60°-80°)	655.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2152.7	2148.4	2144.1	2139.9	2139.9	2135.6	2131.3	2122.7	2114.1	2105.7	2101.4
5°	2191.2	2187.0	2182.7	2187.0	2182.7	2182.7	2178.4	2169.8	2161.2	2148.4	2135.6
7.5°	2221.1	2216.9	2212.6	2216.9	2221.1	2225.4	2229.8	2221.1	2216.9	2199.7	2187.0
10°	2259.7	2255.4	2251.2	2259.7	2259.7	2281.2	2285.3	2281.2	2276.9	2264.0	2242.5
12.5°	2315.3	2319.6	2319.6	2328.2	2336.7	2362.4	2370.9	2358.2	2358.2	2341.0	2315.3
15°	2418.0	2418.0	2418.0	2426.5	2430.9	2465.1	2473.6	2460.8	2469.4	2439.4	2413.7
17.5°	2516.5	2520.7	2529.4	2546.4	2546.4	2576.4	2593.5	2593.5	2610.6	2572.1	2537.9
20°	2614.9	2619.2	2632.0	2670.6	2670.6	2709.1	2739.0	2751.8	2768.9	2730.5	2670.6
22.5°	2721.8	2721.8	2743.3	2803.1	2790.4	2867.4	2923.0	2944.4	2961.6	2910.2	2816.0
25°	2884.6	2867.4	2884.6	2940.1	2931.7	3038.6	3141.3	3162.7	3184.2	3124.2	2983.0
27.5°	3192.7	3167.0	3107.2	3111.3	3111.3	3235.5	3380.9	3411.0	3423.7	3372.4	3196.9
30°	3808.9	3808.9	3586.4	3436.6	3338.2	3449.5	3654.8	3706.2	3723.3	3646.3	3415.2
32.5°	4883.2	4883.2	4472.3	4091.4	3719.0	3719.0	3954.4	4048.6	4065.7	3975.8	3706.2
35°	6252.7	6244.0	5627.8	5105.6	4378.1	4104.3	4305.4	4463.7	4515.1	4395.3	4082.8
37.5°	7707.7	7652.1	6988.8	6389.6	5392.4	4720.5	4780.4	4990.1	5037.2	4938.7	4570.8
40°	8888.9	8824.8	8289.8	7789.1	6702.0	5704.9	5465.1	5657.8	5713.3	5576.5	5152.7
42.5°	9958.9	9800.5	9432.5	9073.0	8208.4	7408.3	6376.8	6453.8	6513.7	6368.1	5807.5
45°	10733.5	10489.6	10301.3	10189.9	9732.0	9278.4	7557.9	7403.9	7425.3	7245.5	6522.2
47.5°	10754.9	10583.7	10600.8	10891.8	11080.2	11063.0	9094.4	8546.6	8465.3	8165.7	7284.1
50°	9727.8	9826.2	10138.6	10968.9	11987.5	12603.7	10921.8	9899.0	9655.0	9115.7	8041.6
52.5°	8016.0	8170.0	8756.2	10155.7	12120.1	13618.0	12817.7	11444.0	11007.5	10057.4	8623.7
55°	6278.4	6286.9	6903.1	8328.3	11234.2	13802.0	14332.7	13143.1	12475.3	10772.0	9008.8
57.5°	4318.3	4553.6	5336.8	6295.4	9235.5	12886.1	14901.9	14461.1	13600.9	11212.8	9278.4
60°	2828.8	2841.8	3753.3	4861.7	6286.9	10485.3	14555.3	15158.7	14512.5	11473.9	9462.4
62°	1994.3	2015.8	2580.7	3971.6	4737.6	7515.2	13789.2	15304.2	15026.0	11627.9	9655.0
62.5°	1848.8	1865.9	2341.0	3749.0	4450.9	6740.5	13515.3	15270.0	15103.0	11679.3	9723.5
65°	1356.7	1356.7	1532.2	2576.4	3261.2	3642.0	11452.4	14589.5	15000.3	12090.2	9980.3
67.5°	1048.6	1057.1	1116.9	1587.7	2460.8	2208.3	7309.8	13057.3	13930.4	12697.9	10125.8
70°	903.0	898.7	941.5	1052.8	1776.1	1467.9	3218.3	10189.9	11666.4	12543.8	9993.1
72.5°	667.7	672.0	770.4	924.5	1236.9	954.4	1455.2	5409.5	7566.5	9817.6	8563.6
75°	428.0	432.2	543.6	727.5	890.1	624.9	838.8	1613.4	3098.5	5443.8	5238.3
77.5°	286.7	295.3	355.2	509.2	778.9	389.4	526.4	676.2	933.0	2041.4	1878.8
80°	192.7	192.7	226.8	342.4	492.2	325.3	282.4	449.4	483.6	633.3	316.8
82.5°	128.4	128.4	149.8	226.8	321.0	291.0	171.2	243.9	282.4	316.8	111.2
85°	77.0	77.0	102.7	141.3	209.7	162.6	111.2	136.9	145.6	201.1	59.9
87.5°	47.1	42.8	68.5	98.5	111.2	98.5	72.7	72.7	77.0	111.2	29.9
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°	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2092.8	2088.5	2084.2	2075.7	2062.9	2054.3	2045.7	2037.1	2028.6	2028.6	2041.4
5°	2131.3	2118.4	2101.4	2084.2	2058.6	2041.4	2028.6	2011.5	2002.9	2002.9	2007.2
7.5°	2178.4	2165.5	2135.6	2105.7	2067.0	2037.1	2007.2	1968.7	1938.7	1925.9	1938.7
10°	2229.8	2212.6	2169.8	2122.7	2080.0	2002.9	1904.5	1784.6	1681.9	1634.8	1656.3
12.5°	2293.9	2272.5	2221.1	2157.0	2058.6	1870.2	1626.4	1348.1	1172.7	1091.3	1108.4
15°	2388.1	2358.2	2285.3	2187.0	1968.7	1562.1	1164.0	843.2	680.4	612.0	620.6
17.5°	2499.3	2460.8	2362.4	2178.4	1737.5	1125.6	693.4	492.2	423.7	406.6	406.6
20°	2619.2	2567.8	2439.4	2114.1	1386.6	706.2	432.2	376.6	350.9	338.0	338.0
22.5°	2743.3	2674.7	2503.6	1964.4	988.6	440.9	355.2	316.8	286.7	273.9	273.9
25°	2893.0	2803.1	2567.8	1703.4	629.2	355.2	303.8	265.4	235.4	218.3	222.6
27.5°	3068.5	2953.0	2623.5	1378.1	406.6	308.1	252.5	214.0	188.3	179.7	179.7
30°	3252.5	3115.6	2636.3	1031.4	329.5	265.4	209.7	175.5	158.3	149.8	149.8
32.5°	3505.0	3325.3	2597.7	684.7	278.2	222.6	175.5	145.6	132.6	128.4	128.4
35°	3839.0	3599.2	2507.9	423.7	235.4	184.0	145.6	128.4	115.6	111.2	111.2
37.5°	4262.5	3980.1	2349.5	291.0	201.1	149.8	124.1	111.2	102.7	98.5	98.5
40°	4827.5	4442.4	2144.1	252.5	171.2	128.4	107.0	98.5	89.9	89.9	89.9
42.5°	5426.7	5003.0	1878.8	222.6	145.6	111.2	94.2	85.5	81.3	77.0	77.0
45°	6081.5	5576.5	1549.3	196.8	124.1	98.5	85.5	72.7	68.5	68.5	68.5
47.5°	6732.0	6167.0	1189.8	171.2	107.0	85.5	72.7	64.3	59.9	55.6	55.6
50°	7399.6	6702.0	873.1	149.8	94.2	77.0	64.3	55.6	47.1	42.8	42.8
52.5°	7883.2	7022.9	637.6	128.4	81.3	64.3	51.4	42.8	34.2	29.9	29.9
55°	8238.4	7219.9	466.5	107.0	72.7	55.6	42.8	34.2	25.6	25.6	21.5
57.5°	8516.6	7314.1	350.9	94.2	64.3	47.1	34.2	25.6	21.5	17.2	17.2
60°	8730.6	7318.3	261.0	77.0	55.6	38.6	25.6	17.2	12.9	12.9	12.9
62°	9013.1	7373.9	214.0	64.3	51.4	34.2	21.5	12.9	8.5	4.3	4.3
62.5°	9094.4	7395.3	205.4	64.3	47.1	29.9	17.2	12.9	8.5	4.3	4.3
65°	9471.0	7433.9	158.3	51.4	38.6	25.6	12.9	8.5	0.0	0.0	0.0
67.5°	9813.3	7373.9	115.6	38.6	29.9	17.2	12.9	4.3	0.0	0.0	0.0
70°	9779.1	6963.1	81.3	25.6	21.5	12.9	8.5	0.0	0.0	0.0	0.0
72.5°	8058.6	5212.6	55.6	21.5	12.9	8.5	4.3	0.0	0.0	0.0	0.0
75°	4866.0	2281.2	38.6	12.9	12.9	8.5	4.3	0.0	0.0	0.0	0.0
77.5°	1596.3	826.0	25.6	8.5	8.5	4.3	4.3	0.0	0.0	0.0	0.0
80°	261.0	136.9	12.9	8.5	8.5	4.3	4.3	0.0	0.0	0.0	0.0
82.5°	81.3	34.2	8.5	8.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	29.9	12.9	8.5	8.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	8.5	8.5	8.5	4.3	4.3	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)