

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: P399419

Luminaire Tested: **ARCH-L-PA3-140-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-140-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA 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: 14144 lumens
Efficiency: N/A
Efficacy: 98.9 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

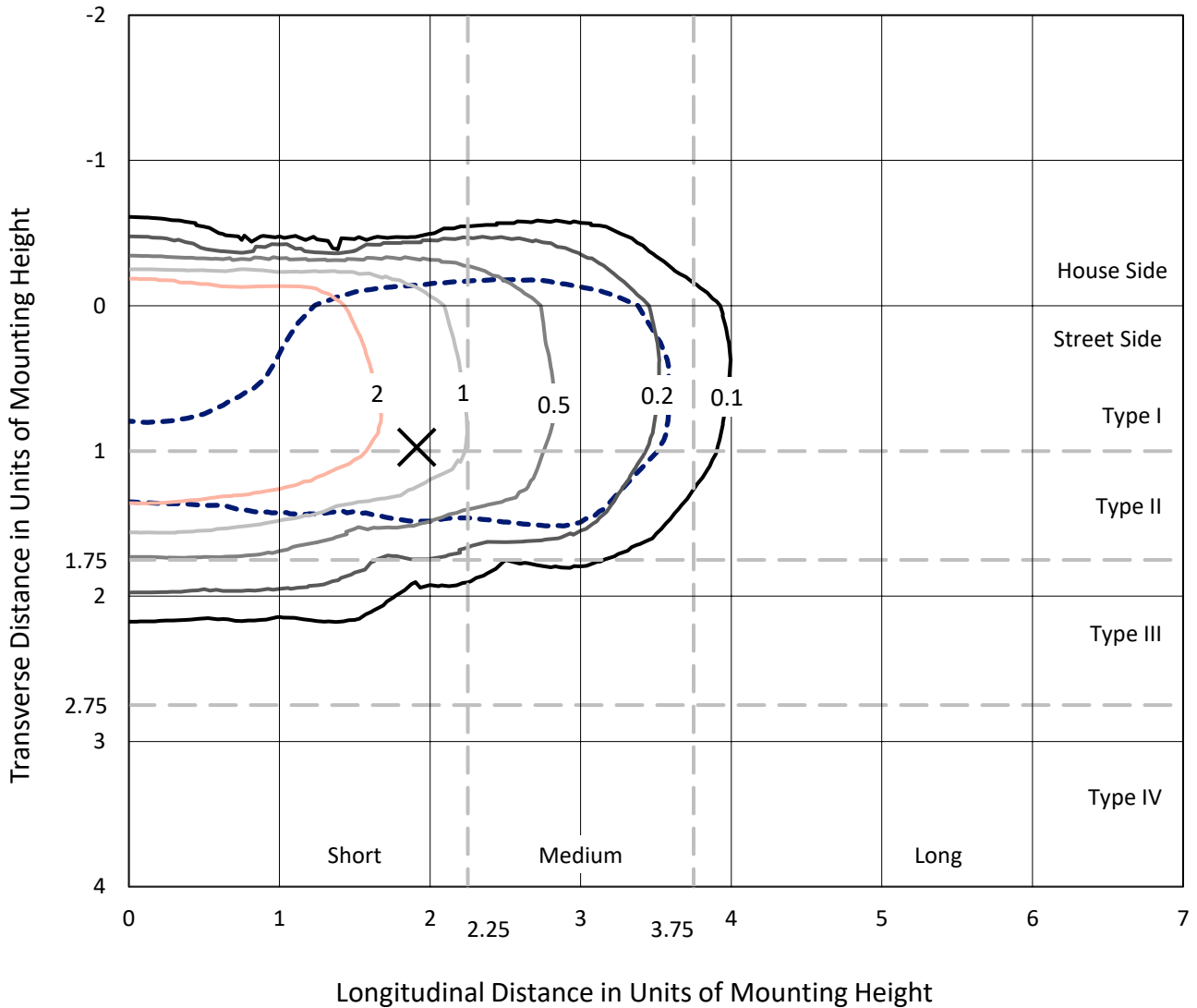
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

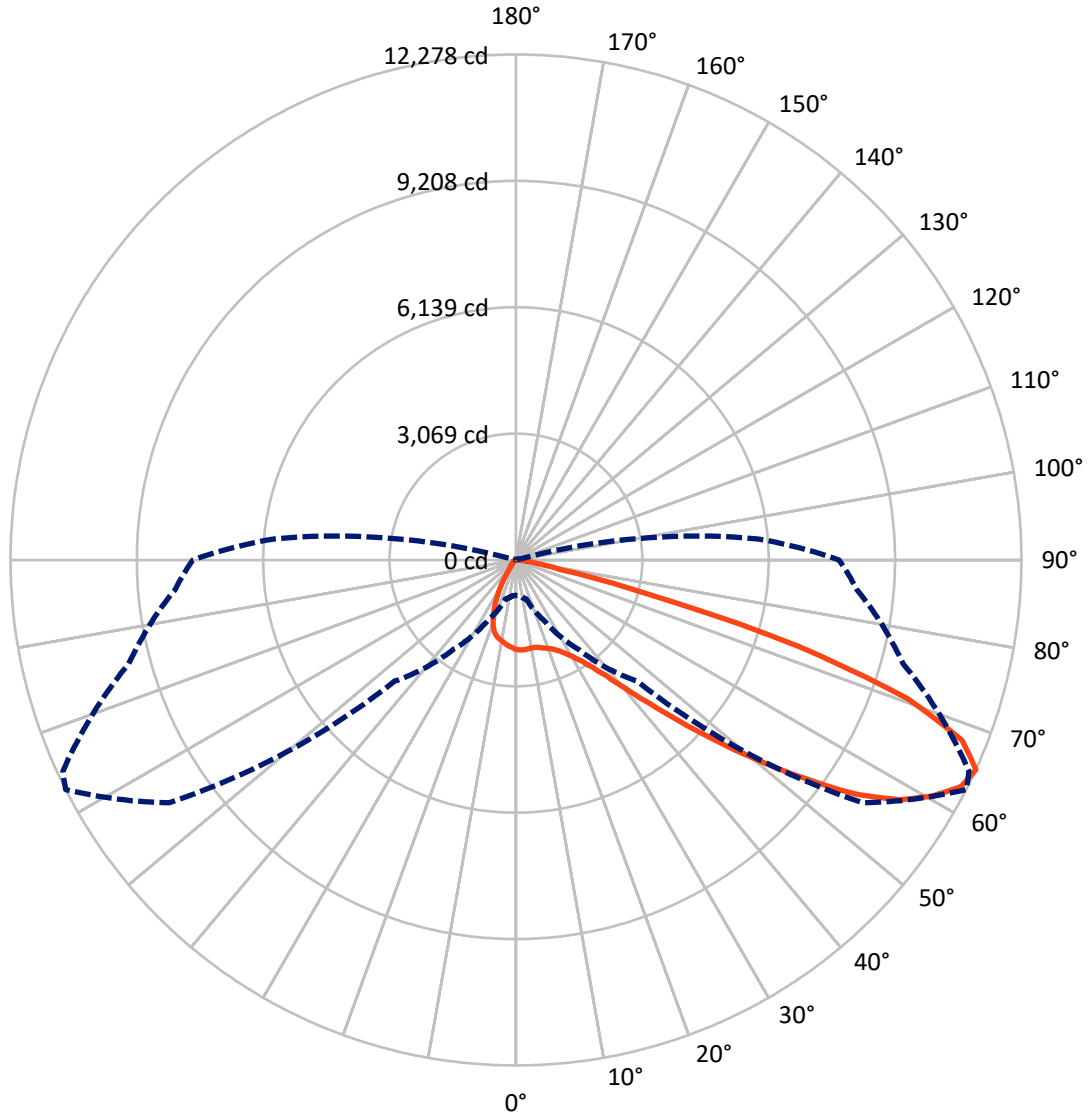
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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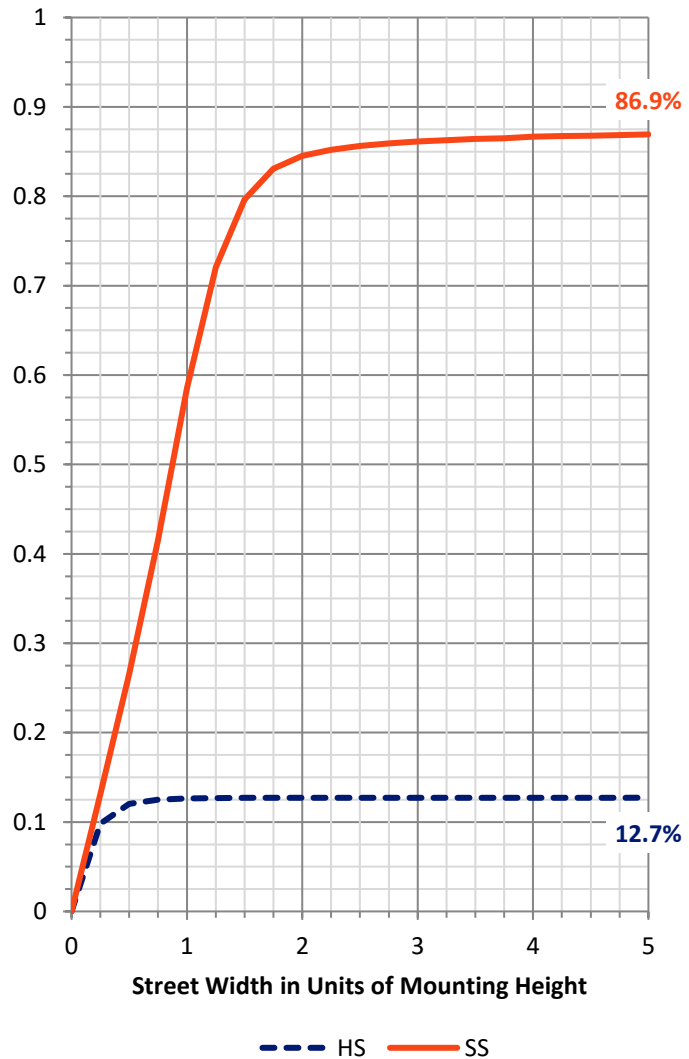
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1820.3	0.0	1820.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	12323.7	0.0	12323.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	14144.0	0.0	14144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	1.4
10°-20°	490.5	3.5
20°-30°	727.0	5.1
30°-40°	1349.8	9.5
40°-50°	2859.4	20.2
50°-60°	3953.9	28.0
60°-70°	3165.2	22.4
70°-80°	1315.1	9.3
80°-90°	84.4	0.6
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°	14144.0	100.0
0°-180°	14144.0	100.0

Coefficient of Utilization

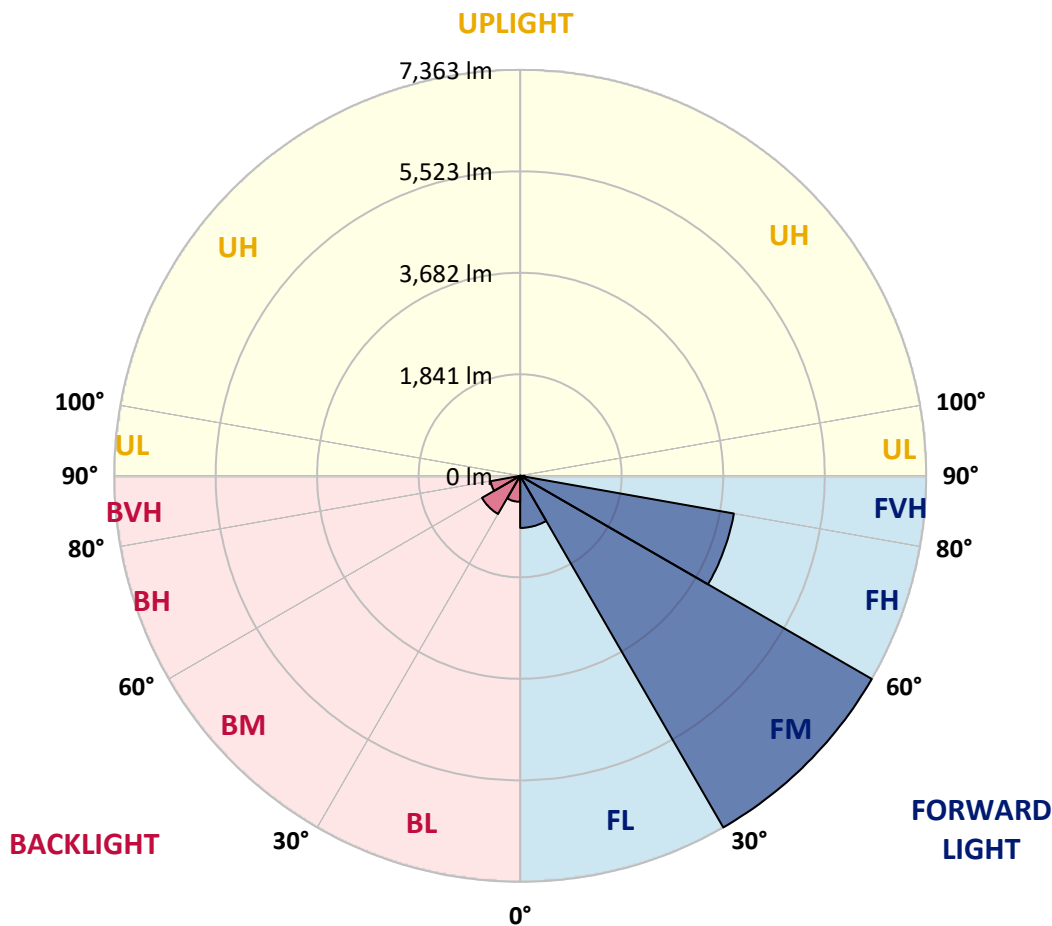


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.5	6.7			
FM (30°-60°)	7363.4	52.1			
FH (60°-80°)	3935.2	27.8			G2/5000
FVH (80°-90°)	80.6	0.6			G1/100
BL (0°-30°)	471.8	3.3	B1/500		
BM (30°-60°)	799.6	5.7	B1/1000		
BH (60°-80°)	545.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	3.9	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°	63°	65°	75°	85°
0°	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9
2.5°	2216.3	2210.9	2205.6	2202.9	2202.9	2200.3	2189.6	2186.9	2181.6	2176.2	2170.9
5°	2194.9	2186.9	2184.2	2186.9	2189.6	2194.9	2189.6	2189.6	2184.2	2178.9	2168.2
7.5°	2141.5	2136.2	2138.8	2146.8	2149.5	2168.2	2170.9	2178.9	2178.9	2173.6	2165.5
10°	2077.4	2074.8	2074.8	2088.1	2101.5	2128.2	2146.8	2168.2	2170.9	2170.9	2157.5
12.5°	2029.4	2026.7	2034.7	2050.7	2077.4	2112.1	2144.2	2176.2	2181.6	2184.2	2162.9
15°	2000.0	2000.0	2010.7	2042.7	2080.1	2128.2	2165.5	2208.3	2213.6	2210.9	2181.6
17.5°	1973.3	1976.0	1997.3	2050.7	2093.4	2157.5	2202.9	2251.0	2253.7	2251.0	2202.9
20°	1962.6	1967.9	2000.0	2069.4	2117.5	2189.6	2248.3	2296.4	2299.1	2288.4	2224.3
22.5°	1992.0	1994.6	2034.7	2109.5	2154.9	2235.0	2309.7	2355.1	2357.8	2341.8	2256.3
25°	2093.4	2093.4	2128.2	2192.2	2232.3	2312.4	2392.5	2445.9	2445.9	2427.2	2328.4
27.5°	2331.1	2309.7	2301.7	2320.4	2333.8	2419.2	2504.7	2571.4	2568.7	2542.0	2421.9
30°	2790.4	2737.0	2651.5	2555.4	2507.3	2566.1	2646.2	2731.6	2729.0	2686.2	2536.7
32.5°	3562.1	3484.6	3281.7	3028.0	2822.4	2755.7	2830.4	2923.9	2926.5	2875.8	2720.9
35°	4643.5	4520.7	4157.5	3805.0	3335.1	3081.4	3102.8	3204.3	3236.3	3209.6	3030.7
37.5°	5684.9	5572.7	5225.6	4737.0	4098.8	3580.8	3490.0	3578.1	3615.5	3615.5	3425.9
40°	6734.3	6603.4	6296.4	5805.0	5132.1	4360.5	4034.7	4106.8	4146.8	4154.8	3906.5
42.5°	7575.4	7489.9	7255.0	6873.1	6242.9	5727.6	4819.7	4779.7	4817.1	4787.7	4464.6
45°	8157.5	8090.7	7927.9	7783.7	7476.6	7217.6	5869.1	5599.4	5623.5	5522.0	5092.1
47.5°	8277.6	8202.9	8168.2	8368.4	8587.4	8651.5	7158.8	6574.1	6550.0	6325.7	5743.6
50°	7754.3	7762.3	7890.5	8461.9	9375.1	9951.9	8654.1	7674.2	7586.1	7086.7	6349.8
52.5°	6624.8	6753.0	7076.1	8002.6	9615.4	10897.1	10149.5	8841.1	8704.9	7826.4	6803.7
55°	5182.9	5348.4	5879.8	6945.2	9113.4	11319.0	11409.8	10053.3	9743.6	8381.8	7156.2
57.5°	3853.1	3903.8	4523.3	5495.3	7925.2	10905.1	12056.0	10987.9	10590.1	8825.0	7506.0
60°	2400.5	2432.6	3086.8	4184.2	6002.6	9375.1	12056.0	11631.4	11252.3	9222.9	7826.4
62.5°	1492.6	1503.3	1749.0	2867.8	4080.1	6953.2	11556.7	12130.8	11826.4	9508.6	8101.4
65°	859.8	870.5	985.3	1620.8	2654.2	4162.9	10280.3	12277.6	12141.4	9735.6	8315.0
67.5°	627.5	632.8	678.2	910.5	1735.6	2138.8	7722.2	11687.5	11858.4	9847.7	8309.7
70°	544.7	552.7	611.5	710.3	1252.3	1313.7	3930.5	10093.4	10571.4	9687.5	8061.4
72.5°	419.2	429.9	518.0	667.6	918.6	945.3	1423.2	7182.9	7906.5	8686.2	7380.5
75°	288.4	299.1	387.2	550.1	758.3	707.6	782.4	3305.7	4170.9	5826.4	5618.1
77.5°	184.2	186.9	243.0	400.5	654.2	502.0	536.7	1078.8	1514.0	2635.5	2651.5
80°	122.8	125.5	149.5	259.0	448.6	464.6	331.1	499.3	547.4	769.0	534.0
82.5°	74.8	74.8	101.5	162.9	272.4	384.5	216.3	261.7	280.4	296.4	138.9
85°	29.4	29.4	61.4	106.8	170.9	178.9	136.2	152.2	160.2	173.6	64.1
87.5°	8.0	8.0	34.7	58.7	74.8	82.8	82.8	74.8	80.1	98.8	32.0
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°	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9	2178.9
2.5°	2168.2	2160.2	2149.5	2138.8	2128.2	2120.1	2112.1	2112.1	2106.8	2098.8	2093.4
5°	2162.9	2149.5	2125.5	2106.8	2077.4	2056.1	2040.0	2026.7	2018.7	2000.0	1997.3
7.5°	2154.9	2138.8	2104.1	2066.7	2018.7	1981.3	1943.9	1917.2	1890.5	1869.1	1863.8
10°	2141.5	2122.8	2072.1	2018.7	1951.9	1882.5	1794.4	1692.9	1599.5	1546.1	1530.0
12.5°	2141.5	2117.5	2050.7	1978.6	1882.5	1711.6	1487.3	1263.0	1089.4	1012.0	990.6
15°	2154.9	2122.8	2034.7	1935.9	1757.0	1409.9	1046.7	750.3	560.7	502.0	488.6
17.5°	2168.2	2122.8	2010.7	1877.2	1527.4	1022.7	595.5	395.2	333.8	320.4	320.4
20°	2173.6	2117.5	1978.6	1767.7	1220.3	635.5	355.1	296.4	272.4	264.4	264.4
22.5°	2194.9	2120.1	1954.6	1610.1	886.5	373.8	280.4	248.3	224.3	216.3	216.3
25°	2248.3	2152.2	1959.9	1409.9	568.8	283.0	237.6	205.6	181.6	170.9	170.9
27.5°	2333.8	2224.3	1989.3	1177.6	357.8	243.0	200.3	165.6	146.9	136.2	136.2
30°	2429.9	2304.4	2002.7	910.5	267.0	205.6	162.9	130.8	117.5	109.5	106.8
32.5°	2598.1	2443.2	1992.0	624.8	219.0	173.6	130.8	104.1	93.5	90.8	90.8
35°	2867.8	2686.2	1970.6	392.5	181.6	138.9	104.1	85.4	77.4	74.8	72.1
37.5°	3233.6	3041.4	1906.5	259.0	149.5	109.5	85.4	72.1	64.1	61.4	61.4
40°	3679.5	3447.2	1783.7	197.6	128.2	88.1	72.1	61.4	56.1	53.4	53.4
42.5°	4189.6	3898.5	1588.8	170.9	106.8	74.8	61.4	50.7	48.1	45.4	45.4
45°	4747.6	4371.1	1319.1	152.2	90.8	61.4	50.7	45.4	40.1	40.1	37.4
47.5°	5340.4	4846.4	1014.7	133.5	77.4	53.4	45.4	37.4	34.7	32.0	32.0
50°	5911.8	5271.0	712.9	114.8	64.1	45.4	37.4	32.0	29.4	26.7	26.7
52.5°	6315.0	5527.3	504.7	98.8	53.4	40.1	29.4	24.0	21.4	21.4	21.4
55°	6638.1	5687.5	352.5	82.8	45.4	34.7	24.0	18.7	18.7	16.0	16.0
57.5°	6942.5	5791.7	259.0	69.4	37.4	26.7	18.7	13.4	13.4	10.7	10.7
60°	7257.6	5847.8	197.6	56.1	32.0	21.4	13.4	10.7	8.0	8.0	8.0
62.5°	7575.4	5882.5	152.2	45.4	26.7	16.0	10.7	8.0	5.3	2.7	2.7
65°	7853.1	5893.2	117.5	34.7	21.4	10.7	8.0	2.7	0.0	0.0	0.0
67.5°	7935.9	5770.3	90.8	26.7	16.0	8.0	5.3	0.0	0.0	0.0	0.0
70°	7711.6	5444.6	69.4	21.4	13.4	5.3	2.7	0.0	0.0	0.0	0.0
72.5°	6843.7	4566.1	53.4	13.4	10.7	5.3	2.7	0.0	0.0	0.0	0.0
75°	4897.2	2435.2	37.4	10.7	8.0	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	2253.7	942.6	26.7	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0
80°	440.6	235.0	10.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	101.5	40.1	5.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.7	13.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	5.3	2.7	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)