

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: P399655

Luminaire Tested: **ARCH-L-PA3-170-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399655
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-PA3-170-750-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 750mA 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: 19073 lumens
Efficiency: N/A
Efficacy: 110.2 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

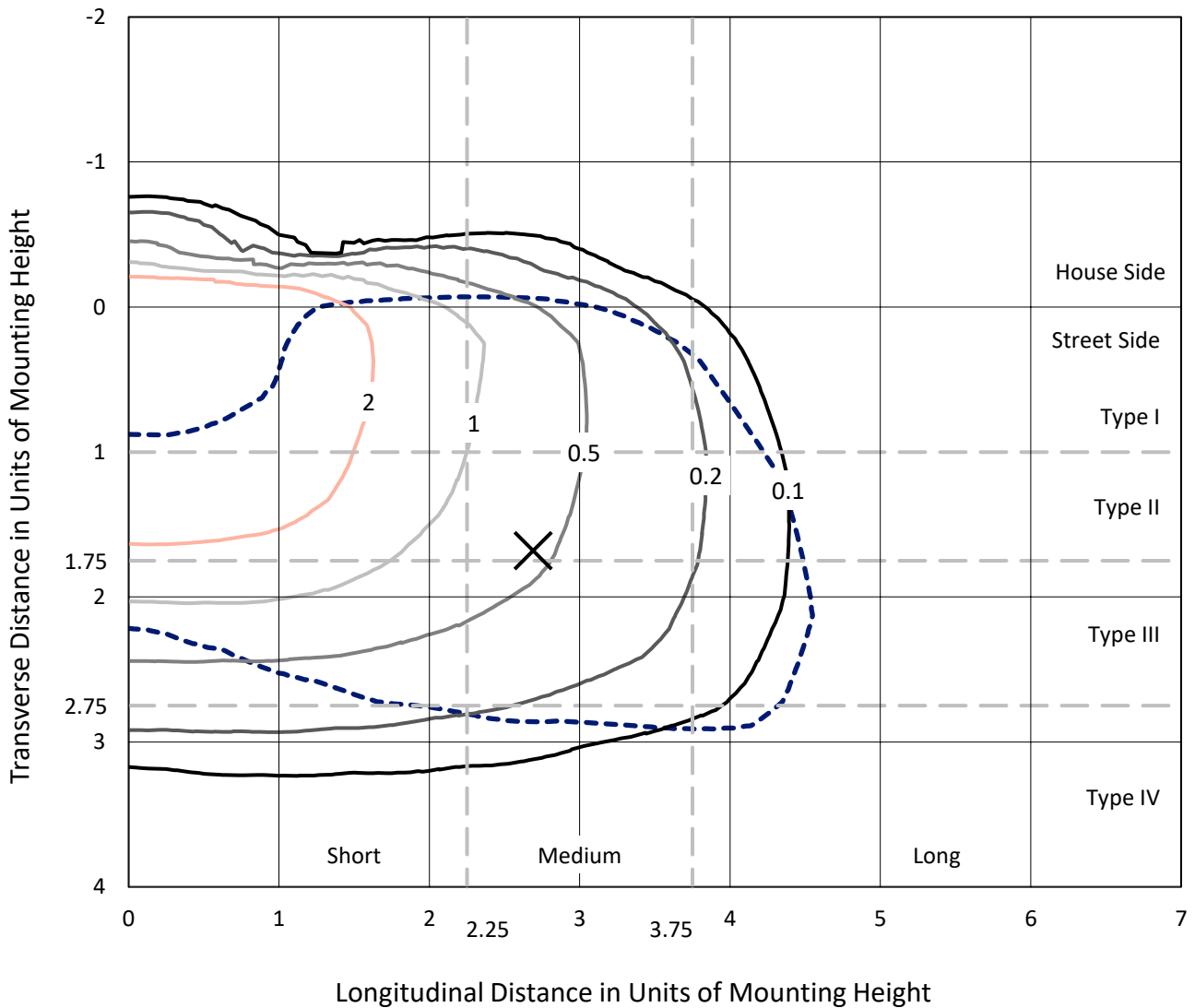
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

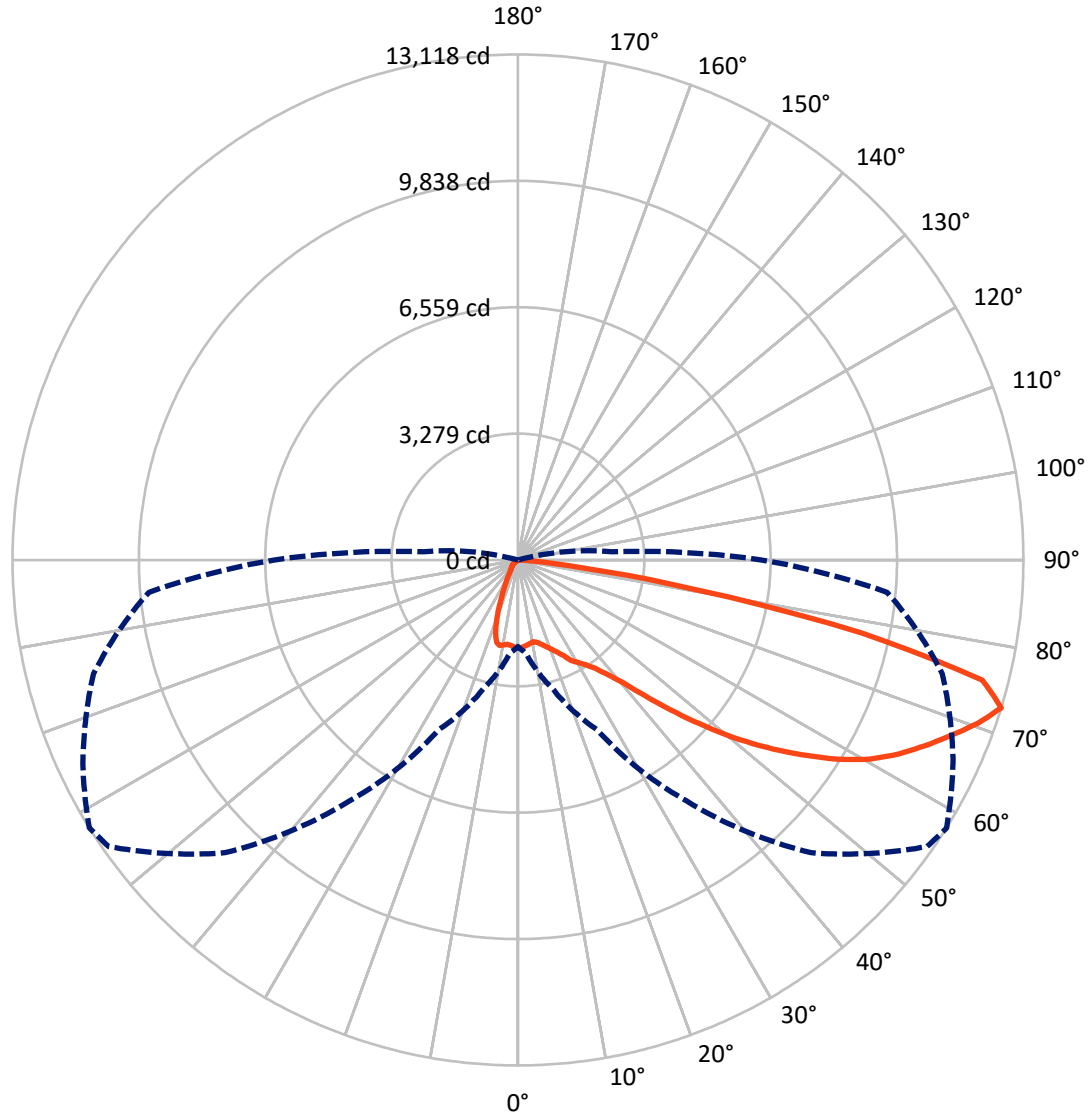
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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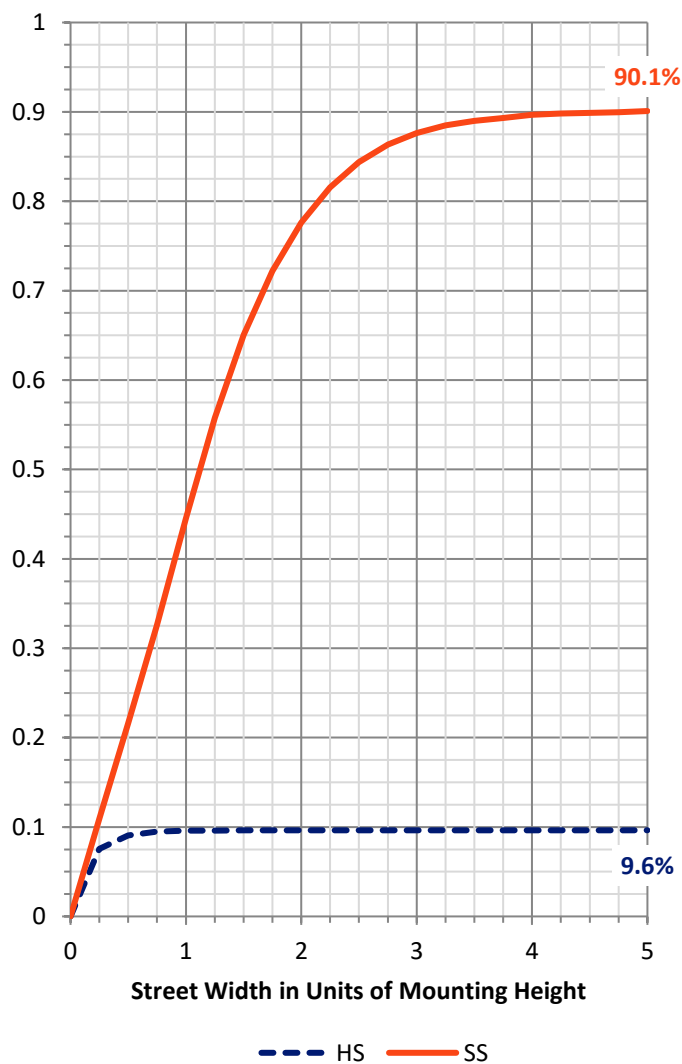
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1854.7	0.0	1854.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17218.3	0.0	17218.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	19073.0	0.0	19073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	1.1
10°-20°	547.1	2.9
20°-30°	859.4	4.5
30°-40°	1482.1	7.8
40°-50°	2819.8	14.8
50°-60°	4465.7	23.4
60°-70°	5211.0	27.3
70°-80°	3263.7	17.1
80°-90°	214.2	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°	19073.0	100.0
0°-180°	19073.0	100.0

Coefficient of Utilization



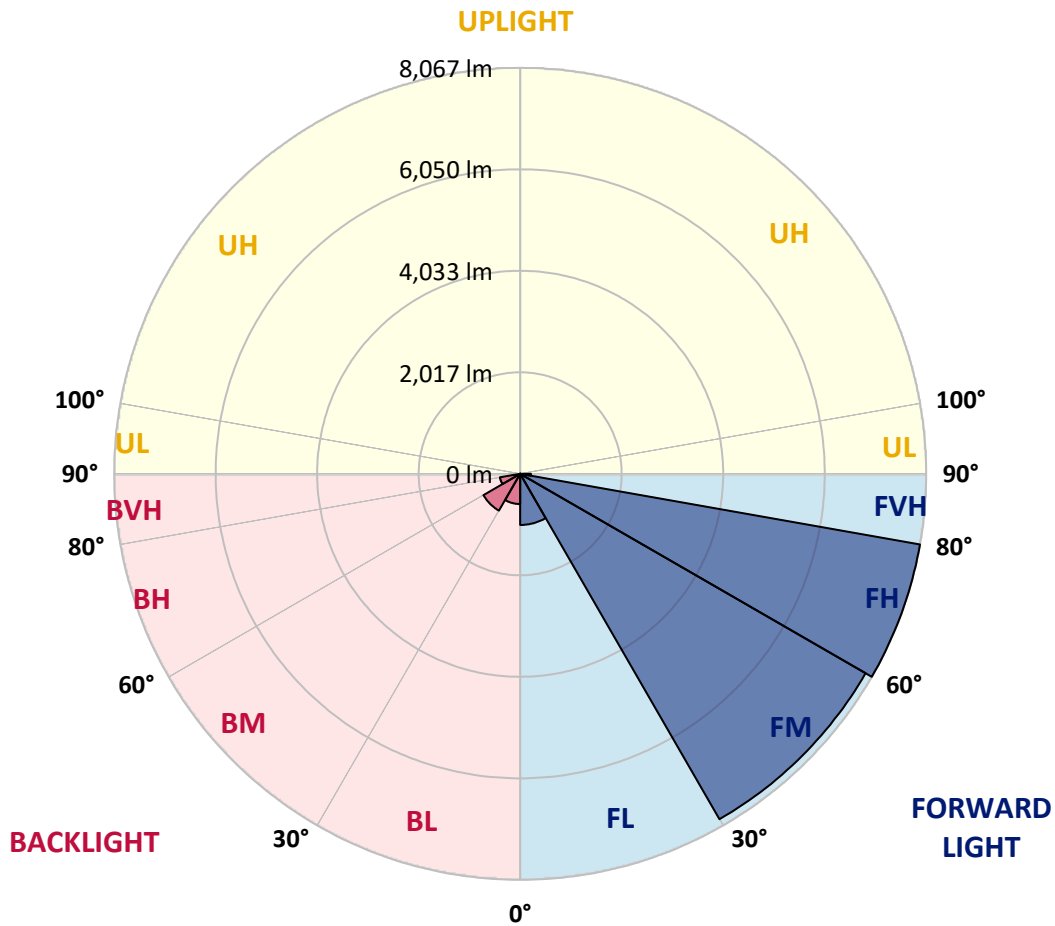
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.9	5.3			
FM (30°-60°)	7923.7	41.5			
FH (60°-80°)	8066.5	42.3			G4/12000
FVH (80°-90°)	212.2	1.1			G2/225
BL (0°-30°)	600.6	3.1	B2/1000		
BM (30°-60°)	843.9	4.4	B1/1000		
BH (60°-80°)	408.1	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6
2.5°	2278.4	2268.2	2264.8	2261.4	2264.8	2268.2	2257.9	2268.2	2261.4	2264.8	2271.6
5°	2196.6	2186.3	2182.9	2186.3	2196.6	2213.6	2220.4	2230.7	2230.7	2240.9	2244.3
7.5°	2104.5	2097.6	2094.2	2101.1	2121.5	2159.0	2179.5	2193.1	2206.8	2227.2	2247.7
10°	2053.3	2049.9	2046.5	2056.7	2077.2	2111.3	2138.6	2159.0	2210.2	2268.2	2305.7
12.5°	2019.2	2019.2	2026.0	2046.5	2073.8	2101.1	2165.9	2193.1	2271.6	2360.3	2411.4
15°	1991.9	1991.9	2002.1	2039.7	2077.2	2142.0	2237.5	2268.2	2360.3	2469.4	2537.6
17.5°	1971.4	1978.3	1985.1	2022.6	2094.2	2203.4	2315.9	2360.3	2472.8	2592.2	2667.2
20°	1974.9	1981.7	1985.1	2022.6	2124.9	2275.0	2418.3	2469.4	2599.0	2725.2	2800.3
22.5°	1995.3	2005.5	2009.0	2060.1	2179.5	2350.0	2534.2	2592.2	2732.0	2865.1	2923.1
25°	2080.6	2087.4	2066.9	2111.3	2257.9	2466.0	2684.3	2745.7	2885.5	3008.3	3056.1
27.5°	2370.5	2377.3	2264.8	2213.6	2319.3	2561.5	2868.5	2953.7	3127.7	3209.6	3216.4
30°	2998.1	3004.9	2783.2	2541.0	2466.0	2643.4	2970.8	3090.2	3315.3	3407.4	3366.5
32.5°	3806.4	3799.6	3496.1	3137.9	2813.9	2786.6	3117.5	3243.7	3489.2	3577.9	3547.2
35°	4618.2	4628.4	4369.2	3830.3	3366.5	3056.1	3305.1	3451.7	3748.5	3874.7	3820.1
37.5°	5174.2	5242.4	5129.8	4546.6	4045.2	3554.0	3608.6	3765.5	4137.3	4307.8	4191.9
40°	5958.7	5941.6	5668.7	5239.0	4795.6	4290.8	4099.8	4174.8	4601.2	4829.7	4648.9
42.5°	7012.6	6978.5	6514.6	6095.1	5600.5	5187.8	4799.0	4785.3	5133.2	5399.3	5136.7
45°	7967.6	7916.5	7599.3	7193.4	6651.1	6177.0	5651.7	5532.3	5774.5	5999.6	5692.6
47.5°	8728.2	8643.0	8417.8	8203.0	8069.9	7333.2	6545.3	6364.5	6487.3	6654.5	6221.3
50°	9628.7	9393.3	9065.9	8936.3	9212.6	8643.0	7404.8	7230.9	7224.1	7319.6	6767.0
52.5°	10038.0	9611.6	9427.4	9536.6	10024.3	9860.6	8332.6	8083.6	7984.7	7994.9	7275.2
55°	9543.4	9495.7	9594.6	9935.6	10573.5	10478.0	9222.8	8915.8	8769.2	8585.0	7763.0
57.5°	8980.6	9127.3	9519.5	10171.0	11269.3	11122.6	10099.4	9751.5	9482.0	9059.1	8305.3
60°	8462.2	8612.3	9260.3	10225.6	11651.3	11743.4	10829.3	10498.4	10099.4	9543.4	8902.2
62.5°	7674.3	7790.3	8700.9	10147.1	11484.1	12104.9	11337.5	11088.5	10716.7	10003.9	9587.7
65°	6787.5	6862.5	7763.0	9519.5	11156.7	12064.0	11757.0	11617.2	11255.6	10484.8	10266.5
67.5°	5815.4	5904.1	6654.5	8390.6	10515.5	11873.0	12152.7	12139.0	11726.3	11016.9	10757.6
70°	4696.7	4703.5	5324.3	6958.0	9396.7	11491.0	12643.8	12674.5	12176.5	11415.9	10778.1
72.5°	2247.7	2431.9	3451.7	4857.0	7636.8	10740.6	12964.4	13117.9	12459.6	11402.3	9615.0
75°	515.0	532.1	1006.2	2309.1	4478.4	8243.9	12162.9	12449.4	11770.7	9860.6	6773.8
77.5°	187.6	197.8	283.1	675.3	1722.5	4260.1	8704.4	9123.9	8700.9	6374.8	3202.7
80°	126.2	122.8	146.7	300.2	791.3	1207.4	4451.1	4700.1	4290.8	2176.1	767.4
82.5°	64.8	68.2	102.3	167.1	532.1	419.5	1487.1	1616.7	1330.2	436.6	143.3
85°	30.7	30.7	58.0	105.7	225.1	146.7	330.8	399.1	358.1	191.0	47.8
87.5°	30.7	30.7	54.6	68.2	116.0	61.4	81.9	102.3	95.5	102.3	17.1
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°	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6
2.5°	2271.6	2268.2	2264.8	2271.6	2268.2	2275.0	2275.0	2281.8	2281.8	2275.0	2271.6
5°	2240.9	2234.1	2227.2	2227.2	2223.8	2230.7	2251.1	2268.2	2271.6	2261.4	2257.9
7.5°	2244.3	2244.3	2237.5	2223.8	2200.0	2200.0	2200.0	2220.4	2230.7	2223.8	2220.4
10°	2305.7	2309.1	2292.1	2261.4	2220.4	2182.9	2111.3	2005.5	1906.6	1879.3	1869.1
12.5°	2411.4	2414.8	2380.7	2326.2	2240.9	2019.2	1746.3	1493.9	1299.5	1244.9	1234.7
15°	2537.6	2541.0	2479.6	2391.0	2131.7	1616.7	1210.8	924.3	753.8	712.9	709.4
17.5°	2667.2	2660.4	2568.3	2397.8	1807.7	1146.0	736.7	590.1	545.7	535.5	538.9
20°	2793.4	2773.0	2646.8	2271.6	1391.6	750.4	538.9	504.8	494.6	487.7	487.7
22.5°	2909.4	2868.5	2711.6	2022.6	975.5	538.9	480.9	474.1	460.5	450.2	446.8
25°	3025.4	2967.4	2752.5	1698.6	654.9	470.7	453.6	440.0	422.9	409.3	405.9
27.5°	3165.2	3083.4	2732.0	1289.3	491.2	436.6	422.9	402.5	378.6	358.1	351.3
30°	3298.2	3206.1	2616.1	890.2	419.5	402.5	382.0	351.3	320.6	296.7	289.9
32.5°	3465.4	3359.6	2408.0	583.2	365.0	351.3	330.8	293.3	252.4	225.1	218.3
35°	3704.1	3584.7	2142.0	409.3	320.6	296.7	269.5	228.5	184.2	163.7	160.3
37.5°	4038.4	3878.1	1807.7	330.8	283.1	249.0	208.1	167.1	136.4	119.4	116.0
40°	4447.7	4202.1	1435.9	293.3	252.4	208.1	156.9	119.4	98.9	85.3	85.3
42.5°	4891.1	4505.7	1057.3	269.5	221.7	170.5	116.0	85.3	71.6	64.8	61.4
45°	5348.1	4775.1	712.9	249.0	194.4	129.6	81.9	58.0	47.8	47.8	44.3
47.5°	5822.2	4955.9	460.5	225.1	163.7	95.5	54.6	40.9	34.1	34.1	34.1
50°	6292.9	5051.4	327.4	204.6	133.0	64.8	40.9	30.7	27.3	27.3	27.3
52.5°	6634.0	4990.0	262.6	177.4	102.3	47.8	30.7	23.9	20.5	20.5	20.5
55°	6930.7	4884.3	228.5	153.5	75.0	34.1	23.9	20.5	17.1	17.1	17.1
57.5°	7234.3	4747.8	204.6	129.6	54.6	23.9	17.1	13.6	13.6	13.6	13.6
60°	7510.6	4515.9	177.4	102.3	37.5	17.1	13.6	10.2	10.2	10.2	10.2
62.5°	7780.0	4318.1	153.5	78.4	27.3	13.6	6.8	6.8	3.4	3.4	3.4
65°	7933.5	4052.0	122.8	51.2	17.1	10.2	3.4	3.4	0.0	0.0	0.0
67.5°	7885.8	3734.8	85.3	30.7	10.2	6.8	3.4	0.0	0.0	0.0	0.0
70°	7554.9	3308.5	51.2	17.1	10.2	6.8	3.4	0.0	0.0	0.0	0.0
72.5°	6327.0	2449.0	30.7	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0
75°	4226.0	1125.6	17.1	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	1933.9	337.7	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	388.8	88.7	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.9	17.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	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)