

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: P400402

Luminaire Tested: **ARCH-L-PA3-270-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400402
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-PA3-270-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1155mA 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: 20480 lumens
Efficiency: N/A
Efficacy: 75.0 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

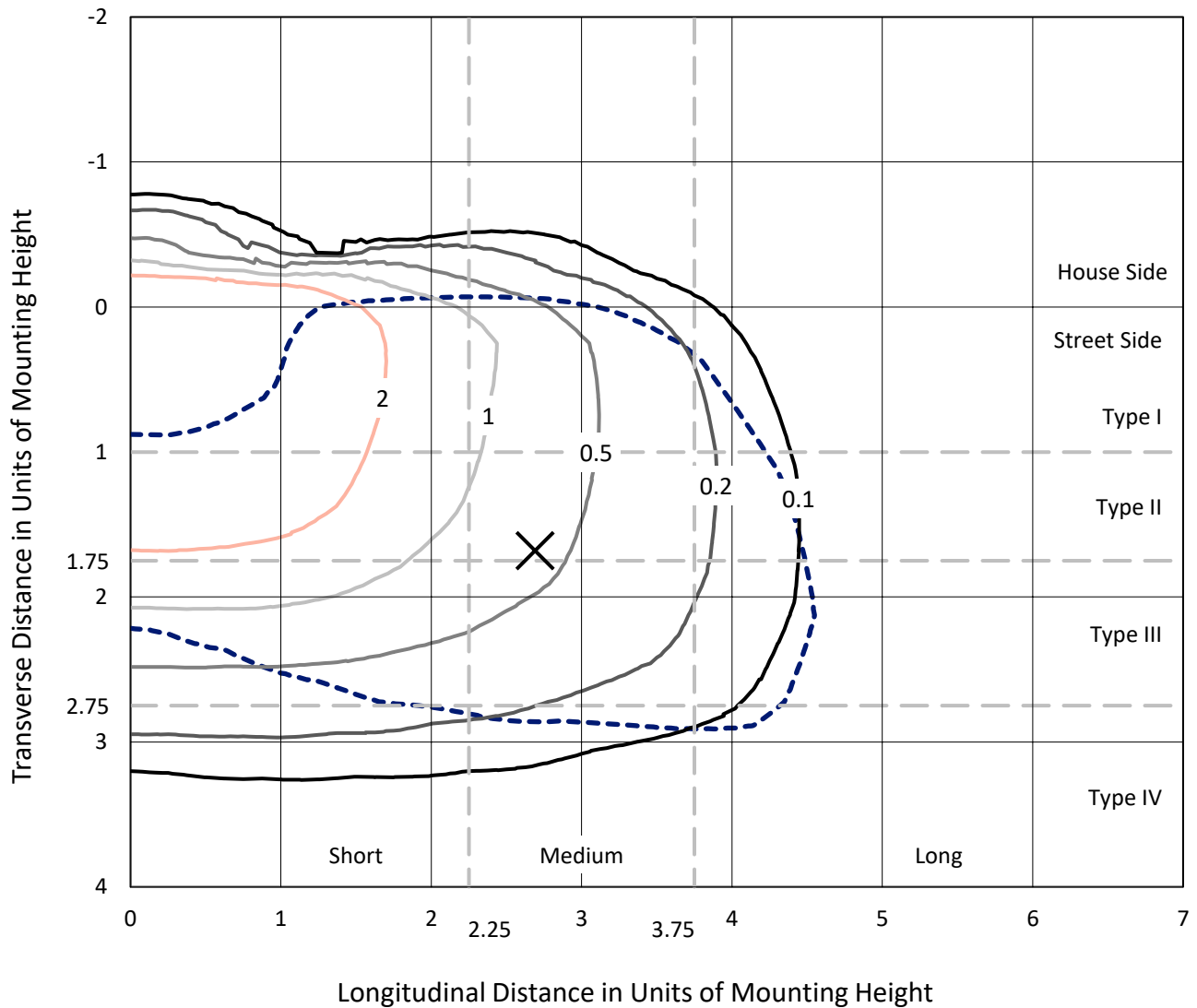
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

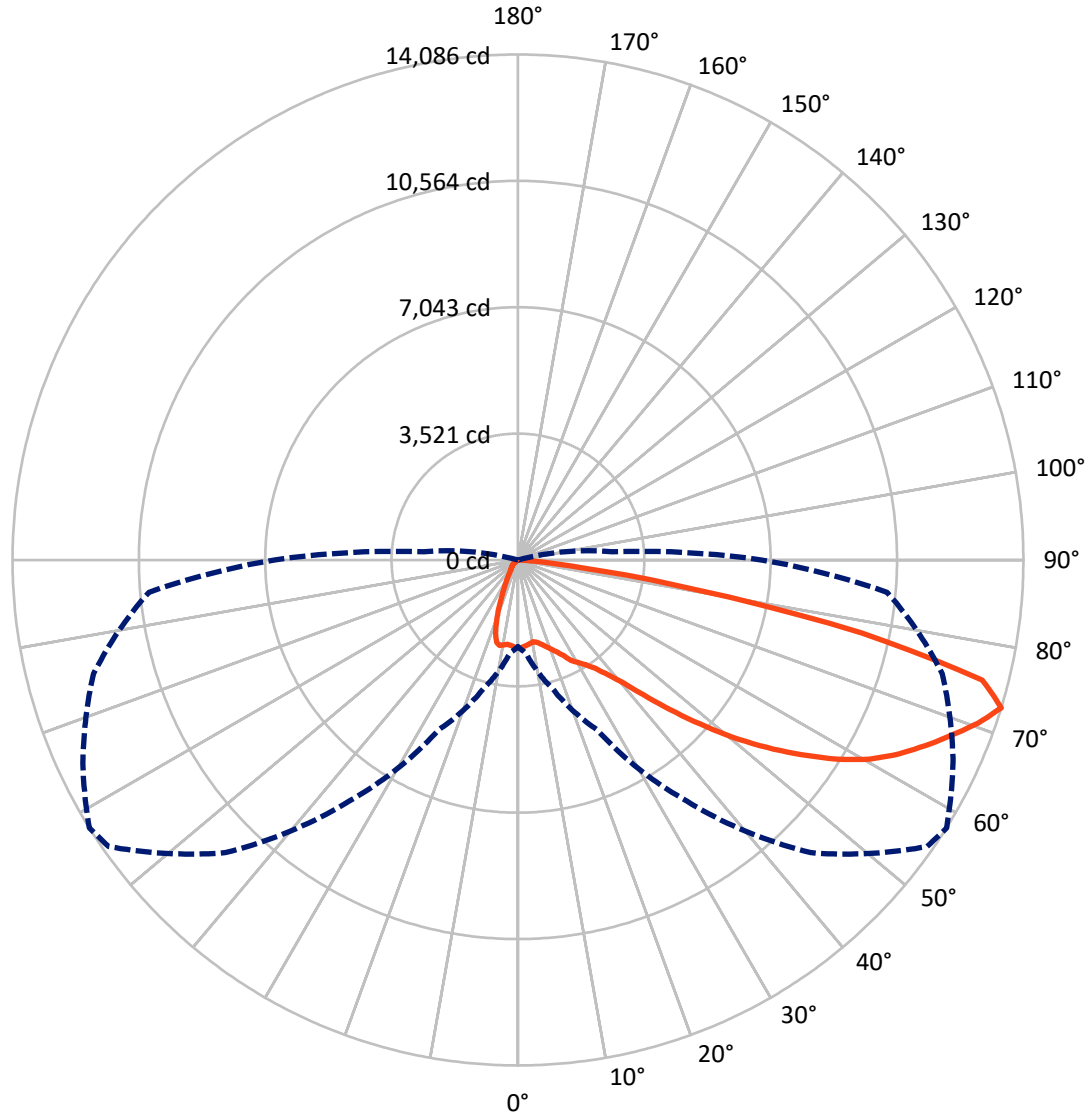
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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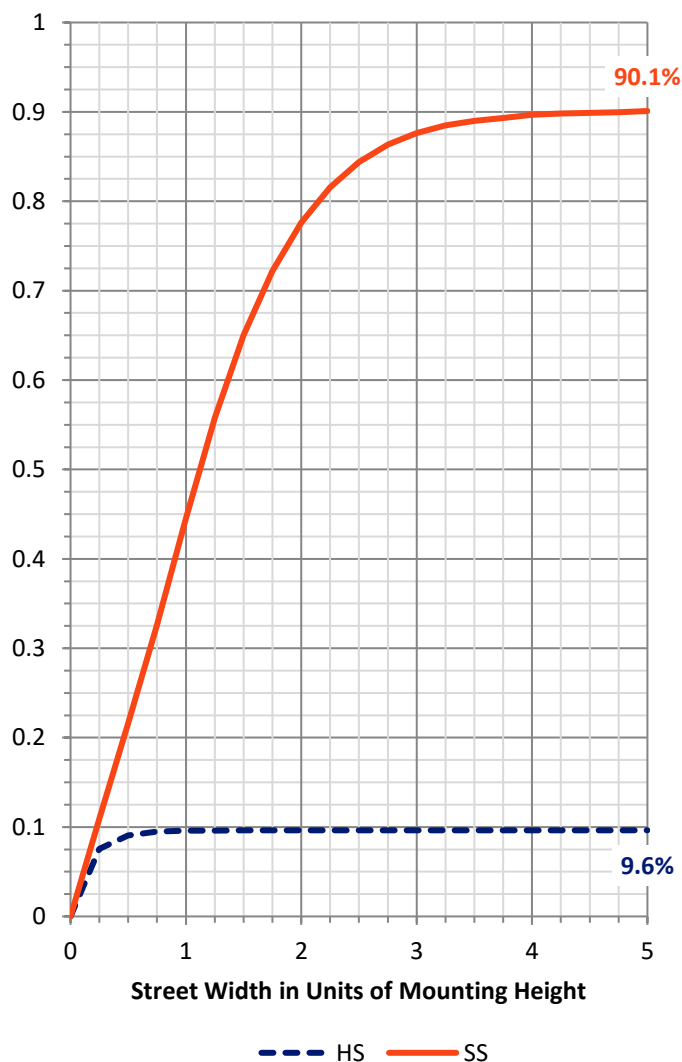
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.5	0.0	1991.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	18488.5	0.0	18488.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	20480.0	0.0	20480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.1
10°-20°	587.4	2.9
20°-30°	922.8	4.5
30°-40°	1591.4	7.8
40°-50°	3027.8	14.8
50°-60°	4795.1	23.4
60°-70°	5595.4	27.3
70°-80°	3504.4	17.1
80°-90°	230.0	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°	20480.0	100.0
0°-180°	20480.0	100.0

Coefficient of Utilization

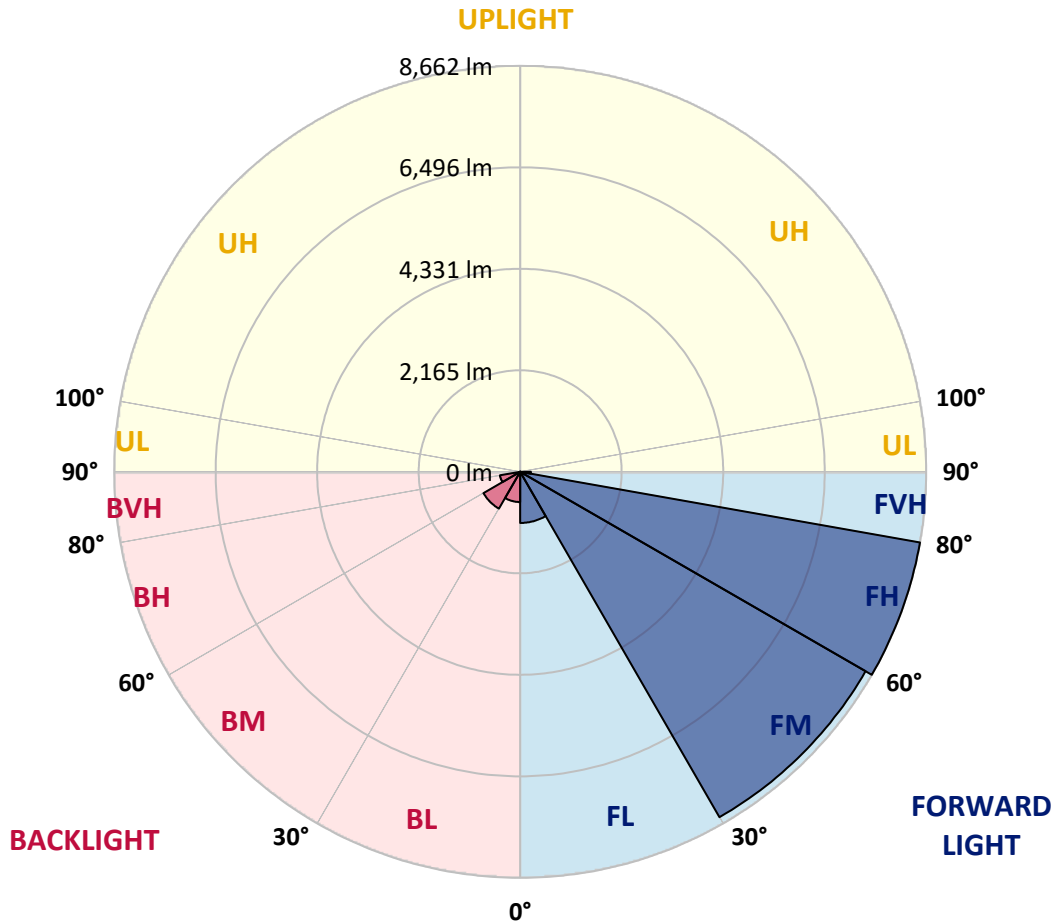


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.8	5.3			
FM (30°-60°)	8508.3	41.5			
FH (60°-80°)	8661.6	42.3			G4/12000
FVH (80°-90°)	227.8	1.1			G3/500
BL (0°-30°)	644.9	3.1	B2/1000		
BM (30°-60°)	906.2	4.4	B1/1000		
BH (60°-80°)	438.2	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5
2.5°	2446.5	2435.5	2431.8	2428.2	2431.8	2435.5	2424.5	2435.5	2428.2	2431.8	2439.2
5°	2358.6	2347.6	2343.9	2347.6	2358.6	2376.9	2384.2	2395.2	2395.2	2406.2	2409.9
7.5°	2259.7	2252.4	2248.7	2256.0	2278.0	2318.3	2340.3	2354.9	2369.6	2391.6	2413.5
10°	2204.8	2201.1	2197.4	2208.4	2230.4	2267.0	2296.3	2318.3	2373.2	2435.5	2475.8
12.5°	2168.1	2168.1	2175.5	2197.4	2226.7	2256.0	2325.6	2354.9	2439.2	2534.4	2589.3
15°	2138.8	2138.8	2149.8	2190.1	2230.4	2300.0	2402.5	2435.5	2534.4	2651.6	2724.8
17.5°	2116.9	2124.2	2131.5	2171.8	2248.7	2365.9	2486.8	2534.4	2655.2	2783.4	2864.0
20°	2120.5	2127.9	2131.5	2171.8	2281.7	2442.8	2596.6	2651.6	2790.8	2926.3	3006.8
22.5°	2142.5	2153.5	2157.2	2212.1	2340.3	2523.4	2721.2	2783.4	2933.6	3076.4	3138.7
25°	2234.1	2241.4	2219.4	2267.0	2424.5	2647.9	2882.3	2948.2	3098.4	3230.2	3281.5
27.5°	2545.4	2552.7	2431.8	2376.9	2490.4	2750.5	3080.1	3171.6	3358.4	3446.3	3453.6
30°	3219.3	3226.6	2988.5	2728.5	2647.9	2838.4	3190.0	3318.1	3559.9	3658.7	3614.8
32.5°	4087.2	4079.9	3754.0	3369.4	3021.5	2992.2	3347.4	3482.9	3746.6	3841.9	3808.9
35°	4958.9	4969.9	4691.5	4112.9	3614.8	3281.5	3548.9	3706.4	4025.0	4160.5	4101.9
37.5°	5555.9	5629.1	5508.3	4882.0	4343.6	3816.2	3874.8	4043.3	4442.5	4625.6	4501.1
40°	6398.2	6379.9	6086.9	5625.5	5149.3	4607.3	4402.2	4482.8	4940.6	5186.0	4991.9
42.5°	7529.9	7493.3	6995.2	6544.7	6013.7	5570.5	5153.0	5138.4	5511.9	5797.6	5515.6
45°	8555.4	8500.4	8159.8	7724.0	7141.7	6632.6	6068.6	5940.4	6200.5	6442.2	6112.6
47.5°	9372.1	9280.5	9038.8	8808.1	8665.3	7874.2	7028.2	6834.1	6965.9	7145.4	6680.2
50°	10339.0	10086.3	9734.7	9595.5	9892.2	9280.5	7951.1	7764.3	7757.0	7859.5	7266.2
52.5°	10778.5	10320.7	10122.9	10240.1	10763.8	10588.0	8947.3	8679.9	8573.7	8584.7	7811.9
55°	10247.4	10196.1	10302.4	10668.6	11353.5	11250.9	9903.1	9573.5	9416.0	9218.3	8335.6
57.5°	9643.1	9800.6	10221.8	10921.3	12100.6	11943.1	10844.4	10470.8	10181.5	9727.4	8918.0
60°	9086.4	9247.6	9943.4	10979.9	12510.8	12609.7	11628.1	11272.9	10844.4	10247.4	9558.9
62.5°	8240.4	8364.9	9342.8	10895.7	12331.3	12997.9	12173.8	11906.5	11507.3	10741.8	10295.0
65°	7288.2	7368.8	8335.6	10221.8	11979.7	12953.9	12624.3	12474.2	12085.9	11258.2	11023.8
67.5°	6244.4	6339.6	7145.4	9009.5	11291.2	12748.8	13049.2	13034.5	12591.4	11829.6	11551.2
70°	5043.1	5050.5	5717.0	7471.3	10089.9	12338.6	13576.5	13609.5	13074.8	12258.1	11573.2
72.5°	2413.5	2611.3	3706.4	5215.3	8200.1	11532.9	13920.8	14085.6	13378.8	12243.4	10324.3
75°	553.0	571.3	1080.4	2479.4	4808.7	8852.0	13060.1	13367.8	12639.0	10588.0	7273.5
77.5°	201.4	212.4	304.0	725.2	1849.5	4574.3	9346.5	9796.9	9342.8	6845.0	3439.0
80°	135.5	131.8	157.5	322.3	849.7	1296.5	4779.4	5046.8	4607.3	2336.6	824.0
82.5°	69.6	73.2	109.9	179.5	571.3	450.5	1596.8	1736.0	1428.3	468.8	153.8
85°	33.0	33.0	62.3	113.5	241.7	157.5	355.3	428.5	384.6	205.1	51.3
87.5°	33.0	33.0	58.6	73.2	124.5	65.9	87.9	109.9	102.5	109.9	18.3
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°	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5	2457.5
2.5°	2439.2	2435.5	2431.8	2439.2	2435.5	2442.8	2442.8	2450.2	2450.2	2442.8	2439.2
5°	2406.2	2398.9	2391.6	2391.6	2387.9	2395.2	2417.2	2435.5	2439.2	2428.2	2424.5
7.5°	2409.9	2409.9	2402.5	2387.9	2362.3	2362.3	2362.3	2384.2	2395.2	2387.9	2384.2
10°	2475.8	2479.4	2461.1	2428.2	2384.2	2343.9	2267.0	2153.5	2047.3	2018.0	2007.0
12.5°	2589.3	2593.0	2556.4	2497.8	2406.2	2168.1	1875.2	1604.1	1395.4	1336.8	1325.8
15°	2724.8	2728.5	2662.6	2567.3	2289.0	1736.0	1300.2	992.5	809.4	765.4	761.8
17.5°	2864.0	2856.7	2757.8	2574.7	1941.1	1230.6	791.1	633.6	586.0	575.0	578.7
20°	2999.5	2977.5	2842.0	2439.2	1494.3	805.7	578.7	542.0	531.0	523.7	523.7
22.5°	3124.0	3080.1	2911.6	2171.8	1047.4	578.7	516.4	509.1	494.4	483.4	479.8
25°	3248.6	3186.3	2955.6	1823.9	703.2	505.4	487.1	472.5	454.1	439.5	435.8
27.5°	3398.7	3310.8	2933.6	1384.4	527.4	468.8	454.1	432.2	406.5	384.6	377.2
30°	3541.5	3442.7	2809.1	955.9	450.5	432.2	410.2	377.2	344.3	318.6	311.3
32.5°	3721.0	3607.5	2585.7	626.3	391.9	377.2	355.3	315.0	271.0	241.7	234.4
35°	3977.4	3849.2	2300.0	439.5	344.3	318.6	289.3	245.4	197.8	175.8	172.1
37.5°	4336.3	4164.2	1941.1	355.3	304.0	267.4	223.4	179.5	146.5	128.2	124.5
40°	4775.8	4512.1	1541.9	315.0	271.0	223.4	168.5	128.2	106.2	91.6	91.6
42.5°	5251.9	4838.0	1135.3	289.3	238.1	183.1	124.5	91.6	76.9	69.6	65.9
45°	5742.7	5127.4	765.4	267.4	208.8	139.2	87.9	62.3	51.3	51.3	47.6
47.5°	6251.7	5321.5	494.4	241.7	175.8	102.5	58.6	43.9	36.6	36.6	36.6
50°	6757.1	5424.0	351.6	219.7	142.8	69.6	43.9	33.0	29.3	29.3	29.3
52.5°	7123.4	5358.1	282.0	190.4	109.9	51.3	33.0	25.6	22.0	22.0	22.0
55°	7442.0	5244.6	245.4	164.8	80.6	36.6	25.6	22.0	18.3	18.3	18.3
57.5°	7768.0	5098.1	219.7	139.2	58.6	25.6	18.3	14.6	14.6	14.6	14.6
60°	8064.6	4849.0	190.4	109.9	40.3	18.3	14.6	11.0	11.0	11.0	11.0
62.5°	8354.0	4636.6	164.8	84.2	29.3	14.6	7.3	7.3	3.7	3.7	3.7
65°	8518.8	4350.9	131.8	54.9	18.3	11.0	3.7	3.7	0.0	0.0	0.0
67.5°	8467.5	4010.3	91.6	33.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0
70°	8112.2	3552.5	54.9	18.3	11.0	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	6793.8	2629.6	33.0	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	4537.7	1208.6	18.3	11.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	2076.6	362.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	417.5	95.2	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.9	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	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)