

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: P400260

Luminaire Tested: **ARCH-L-PA3-250-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19223 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

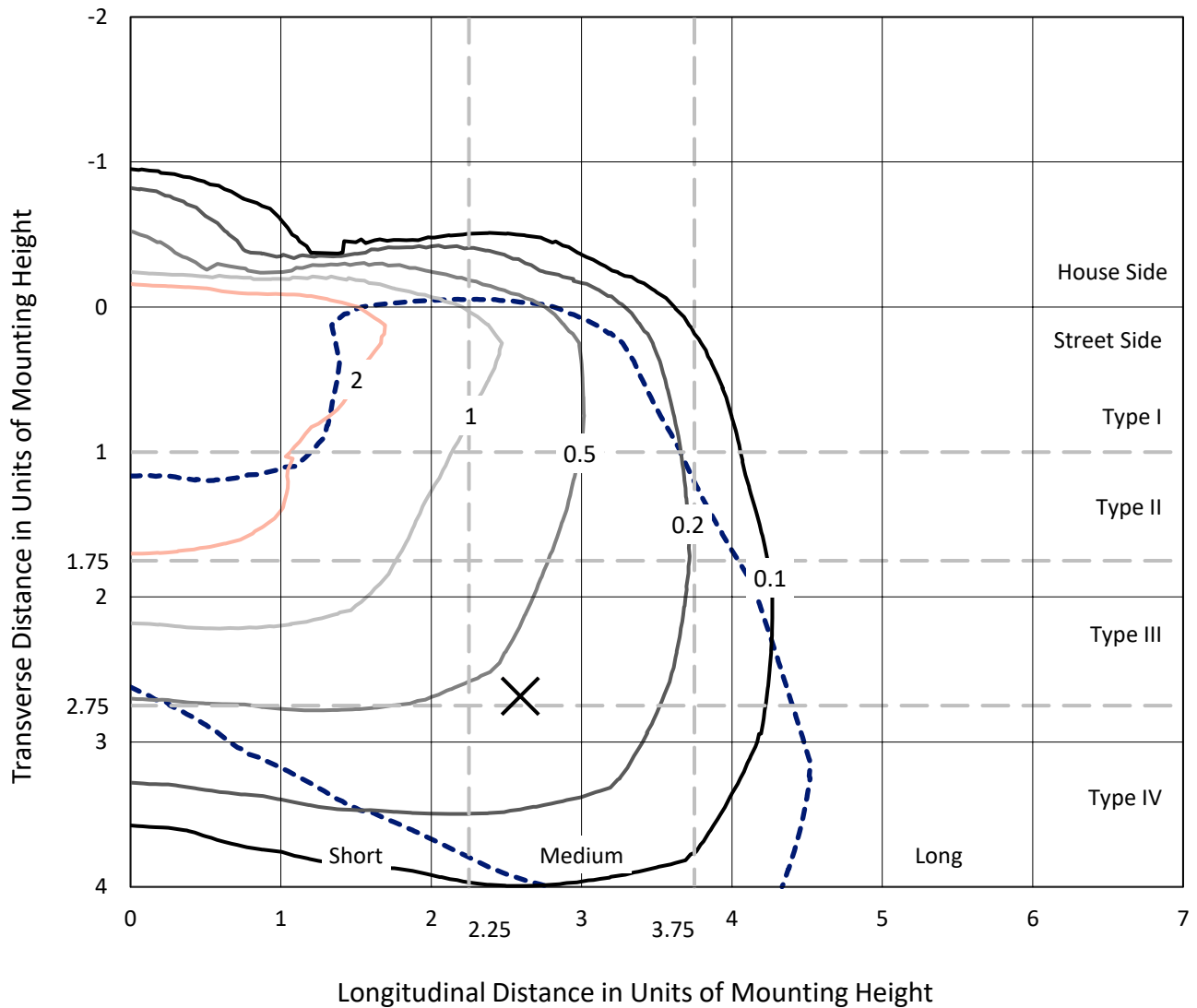
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400260
 CATALOG NUMBER: ARCH-L-PA3-250-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

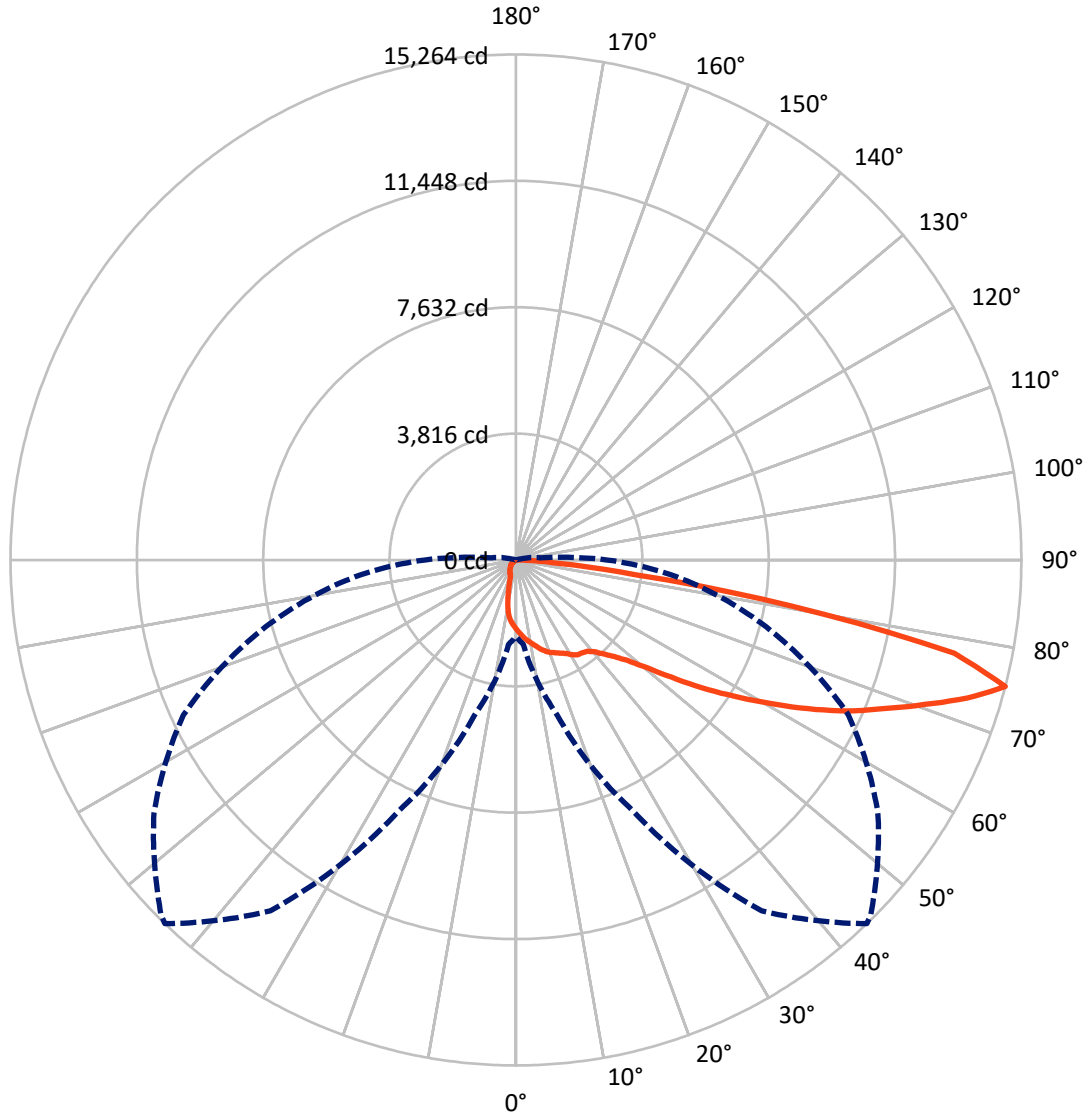
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P400260
CATALOG NUMBER: ARCH-L-PA3-250-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P400260
 CATALOG NUMBER: ARCH-L-PA3-250-830-U-T4W-HSS

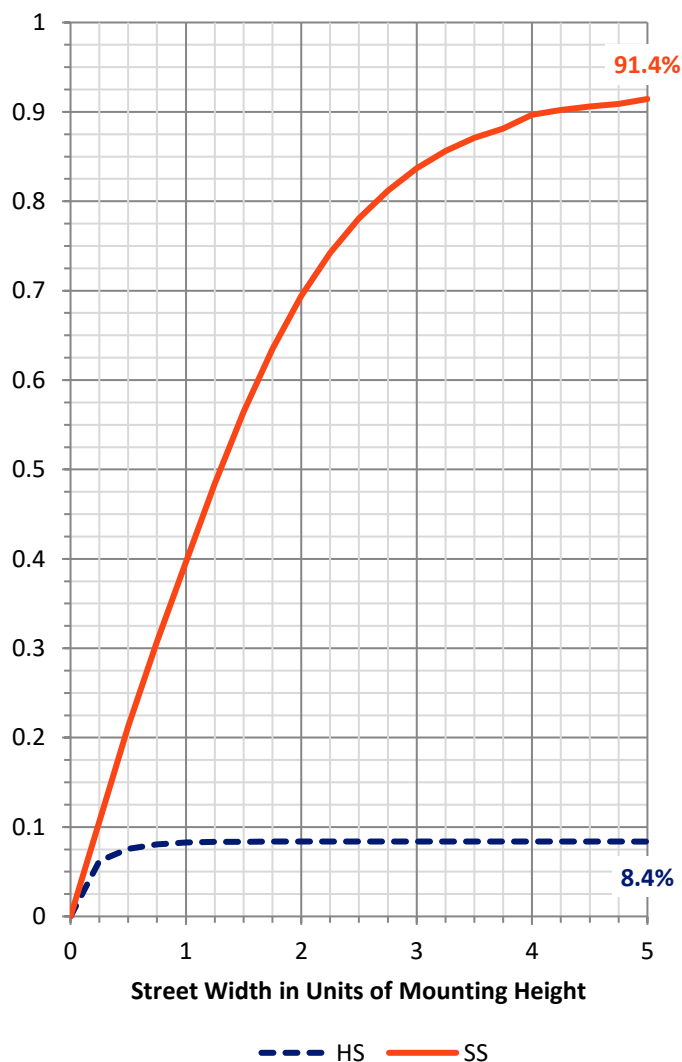
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.1	0.0	1621.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17601.9	0.0	17601.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	19223.0	0.0	19223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	1.0
10°-20°	552.9	2.9
20°-30°	912.5	4.7
30°-40°	1324.4	6.9
40°-50°	2152.9	11.2
50°-60°	3795.2	19.7
60°-70°	5454.5	28.4
70°-80°	4367.9	22.7
80°-90°	465.4	2.4
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°	19223.0	100.0
0°-180°	19223.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400260

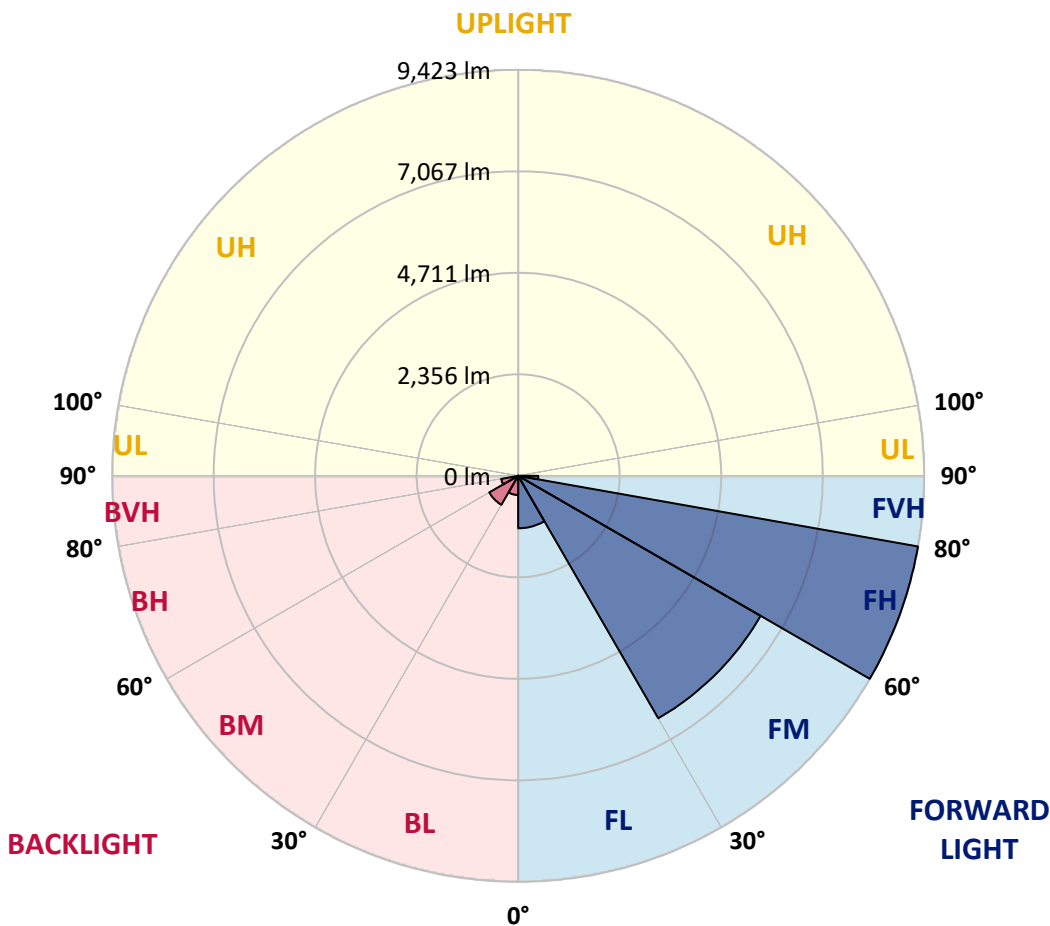
CATALOG NUMBER: ARCH-L-PA3-250-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.4	6.3			
FM (30°-60°)	6497.5	33.8			
FH (60°-80°)	9422.8	49.0			G4/12000
FVH (80°-90°)	464.2	2.4			G3/500
BL (0°-30°)	445.4	2.3	B1/500		
BM (30°-60°)	774.9	4.0	B1/1000		
BH (60°-80°)	399.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium





REPORT NUMBER: P400260

CATALOG NUMBER: ARCH-L-PA3-250-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4
2.5°	2280.3	2276.8	2266.1	2248.4	2230.7	2212.9	2209.4	2181.0	2149.1	2124.3	2103.0
5°	2482.4	2478.9	2461.2	2422.2	2383.2	2337.0	2333.5	2266.1	2205.8	2138.5	2081.7
7.5°	2691.7	2684.6	2652.7	2592.4	2525.0	2454.1	2447.0	2347.7	2259.0	2170.4	2088.8
10°	2854.8	2847.7	2801.6	2730.7	2638.5	2549.8	2539.2	2436.3	2347.7	2234.2	2124.3
12.5°	3014.4	3000.2	2939.9	2861.9	2748.4	2663.3	2652.7	2546.3	2439.9	2322.9	2188.1
15°	3163.4	3145.6	3088.9	2989.6	2869.0	2787.4	2780.3	2666.9	2556.9	2422.2	2273.2
17.5°	3266.2	3259.1	3191.7	3081.8	2964.8	2897.4	2890.3	2773.3	2663.3	2521.5	2361.9
20°	3319.4	3319.4	3255.6	3135.0	3028.6	2982.5	2971.8	2861.9	2755.5	2620.8	2454.1
22.5°	3330.0	3340.7	3291.0	3159.8	3081.8	3042.8	3035.7	2939.9	2837.1	2713.0	2556.9
25°	3351.3	3351.3	3326.5	3184.6	3127.9	3117.2	3113.7	3028.6	2936.4	2812.3	2659.8
27.5°	3376.1	3376.1	3358.4	3220.1	3198.8	3195.3	3191.7	3152.7	3078.2	2932.8	2780.3
30°	3440.0	3443.5	3429.3	3291.0	3276.8	3315.8	3322.9	3301.7	3209.5	3028.6	2904.5
32.5°	3599.6	3567.6	3528.6	3340.7	3365.5	3415.1	3418.7	3376.1	3276.8	3131.4	3053.4
35°	4000.3	3812.3	3635.0	3383.2	3393.9	3443.5	3450.6	3447.1	3386.8	3262.6	3223.6
37.5°	4372.7	4106.7	3854.9	3482.5	3447.1	3500.3	3514.4	3574.7	3528.6	3443.5	3454.2
40°	4589.0	4486.1	4308.8	3755.6	3553.4	3635.0	3649.2	3741.4	3723.7	3688.2	3755.6
42.5°	5255.7	5262.8	5071.3	4163.4	3748.5	3879.7	3897.4	3971.9	3996.7	4014.5	4177.6
45°	6028.8	6053.6	6007.5	4897.5	4117.3	4159.9	4184.7	4284.0	4376.2	4489.7	4787.6
47.5°	6958.0	6936.7	6766.4	5794.7	4759.2	4521.6	4539.3	4730.8	4890.4	5138.7	5564.2
50°	7780.7	7833.9	7511.2	6631.7	5663.5	5092.6	5074.8	5262.8	5550.0	5897.6	6433.1
52.5°	8610.6	8532.5	8096.3	7461.5	6734.5	5869.2	5816.0	5918.9	6323.2	6734.5	7284.2
55°	8830.4	8837.5	8688.6	8369.4	7628.2	6812.6	6723.9	6716.8	7220.4	7500.5	8177.9
57.5°	9263.1	9280.8	9316.3	9380.1	9029.0	7755.9	7663.7	7564.4	8053.8	8216.9	9075.1
60°	9702.8	9724.1	9940.4	10284.4	10050.4	8773.7	8674.4	8440.3	8713.4	8933.3	10018.5
62.5°	9646.1	9795.0	10422.7	11107.2	11078.8	9890.8	9766.7	9202.8	9376.6	9568.1	10883.8
65°	8709.9	8869.4	10280.9	11334.2	12110.8	10993.7	10791.6	9990.1	10000.7	10231.2	11717.2
67.5°	7872.9	8046.7	9394.3	11238.4	12791.7	11983.1	11773.9	10780.9	10614.2	10997.3	12164.0
70°	7390.6	7564.4	8688.6	10940.5	12983.2	13079.0	12898.1	11685.2	11344.8	11695.9	11664.0
72.5°	5784.1	6057.2	7787.8	10373.1	13188.9	14252.8	14111.0	12830.7	11965.4	10965.3	8880.1
75°	2305.1	2556.9	4862.1	8348.1	12930.0	15263.5	15153.6	13344.9	11075.3	7830.4	4546.4
77.5°	695.1	744.7	1351.2	4128.0	9479.4	13532.9	13497.4	11220.7	7837.4	3635.0	1241.2
80°	230.5	255.3	414.9	1138.4	4326.6	8454.5	8614.1	7149.5	3560.5	833.4	251.8
82.5°	95.8	106.4	209.2	457.5	1532.0	3642.1	3588.9	3202.4	1241.2	517.8	92.2
85°	24.8	31.9	95.8	262.4	560.3	1255.4	1319.2	1074.5	702.2	429.1	28.4
87.5°	0.0	0.0	46.1	106.4	251.8	379.5	397.2	326.3	397.2	322.7	14.2
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: P400260

CATALOG NUMBER: ARCH-L-PA3-250-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4	2092.4
2.5°	2085.3	2067.5	2035.6	2014.3	1986.0	1978.9	1964.7	1947.0	1943.4	1925.7	1929.2
5°	2049.8	2021.4	1964.7	1925.7	1879.6	1865.4	1840.6	1822.8	1808.6	1783.8	1787.4
7.5°	2042.7	2000.1	1922.1	1847.7	1773.2	1720.0	1645.5	1585.2	1535.6	1482.4	1493.0
10°	2067.5	2014.3	1904.4	1801.5	1666.8	1496.6	1301.5	1173.8	1110.0	1046.2	1053.3
12.5°	2117.2	2053.3	1911.5	1755.4	1482.4	1191.6	922.1	748.3	702.2	673.8	677.4
15°	2191.6	2113.6	1932.8	1666.8	1234.1	861.8	613.5	539.0	556.8	567.4	567.4
17.5°	2269.7	2181.0	1950.5	1507.2	954.0	602.9	500.0	492.9	517.8	542.6	542.6
20°	2365.4	2251.9	1954.0	1305.1	688.0	489.4	471.7	471.7	489.4	517.8	517.8
22.5°	2457.6	2330.0	1922.1	1074.5	524.9	453.9	453.9	453.9	464.6	492.9	496.5
25°	2567.6	2425.7	1854.7	829.8	450.4	432.7	432.7	436.2	443.3	468.1	471.7
27.5°	2684.6	2525.0	1741.3	606.4	411.4	407.8	411.4	414.9	418.5	443.3	450.4
30°	2819.4	2634.9	1595.9	453.9	375.9	375.9	386.6	393.6	393.6	414.9	422.0
32.5°	2975.4	2780.3	1422.1	375.9	340.5	336.9	354.6	365.3	365.3	383.0	390.1
35°	3170.4	2929.3	1212.9	333.4	312.1	305.0	312.1	329.8	336.9	351.1	354.6
37.5°	3429.3	3106.6	989.4	308.5	290.8	276.6	276.6	280.2	294.3	308.5	312.1
40°	3759.1	3301.7	769.6	290.8	269.5	255.3	244.7	241.2	237.6	248.2	255.3
42.5°	4174.1	3521.5	574.5	273.1	251.8	230.5	216.3	202.1	184.4	180.9	184.4
45°	4706.0	3791.1	425.6	258.9	241.2	209.2	184.4	159.6	127.7	117.0	120.6
47.5°	5333.7	4071.2	333.4	244.7	234.1	184.4	152.5	109.9	78.0	70.9	74.5
50°	6000.4	4340.7	283.7	227.0	219.9	159.6	109.9	67.4	46.1	46.1	49.6
52.5°	6567.9	4493.2	258.9	212.8	198.6	131.2	70.9	39.0	28.4	28.4	31.9
55°	7117.5	4574.8	241.2	198.6	170.2	92.2	39.0	24.8	17.7	17.7	17.7
57.5°	7685.0	4610.3	219.9	180.9	134.8	56.7	21.3	14.2	10.6	10.6	10.6
60°	8188.5	4542.9	188.0	148.9	88.7	28.4	10.6	10.6	7.1	3.5	3.5
62.5°	8610.6	4415.2	131.2	106.4	53.2	14.2	7.1	3.5	0.0	0.0	0.0
65°	8869.4	4209.5	85.1	70.9	31.9	10.6	3.5	0.0	0.0	0.0	0.0
67.5°	8795.0	3823.0	53.2	46.1	14.2	7.1	3.5	0.0	0.0	0.0	0.0
70°	7936.7	3135.0	39.0	28.4	10.6	3.5	0.0	0.0	0.0	0.0	0.0
72.5°	5720.3	2120.7	28.4	17.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	2752.0	755.4	17.7	14.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	673.8	166.7	10.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.9	31.9	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.6	14.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.5	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)