

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: P399871

Luminaire Tested: **ARCH-L-PA3-200-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399871
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-PA3-200-750-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 860mA 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: 21189 lumens
Efficiency: N/A
Efficacy: 105.4 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

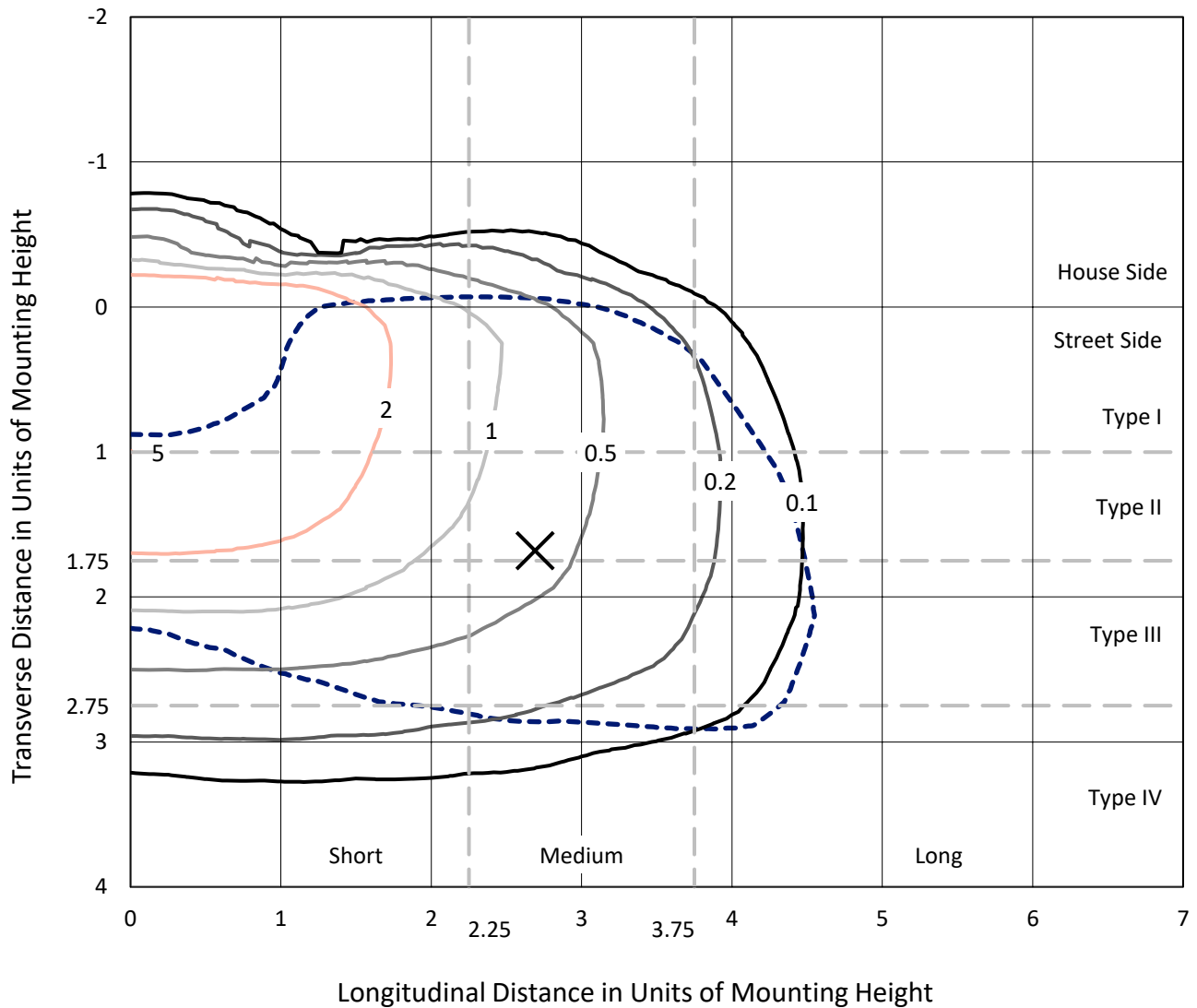
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399871
 CATALOG NUMBER: ARCH-L-PA3-200-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

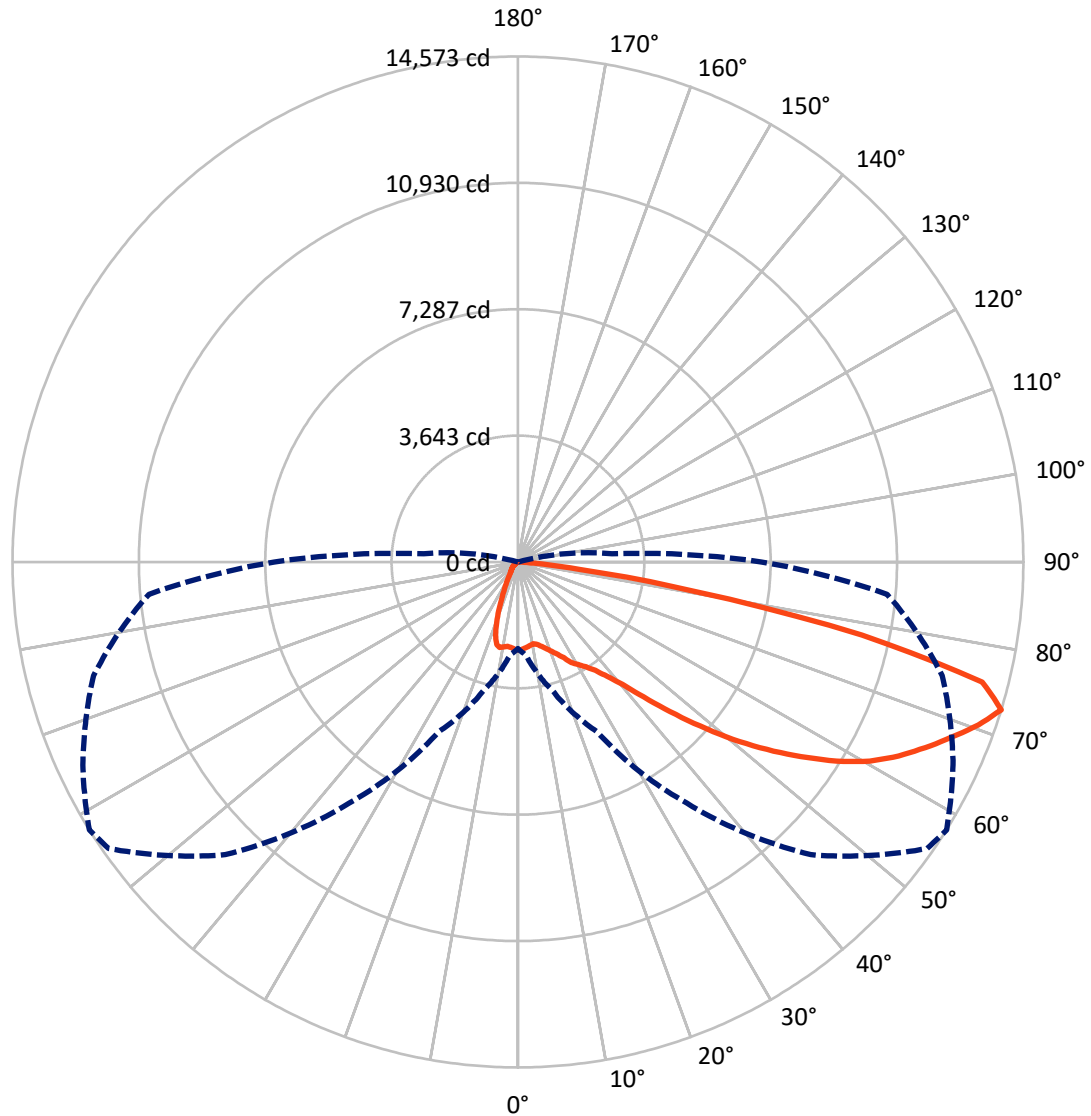
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399871
CATALOG NUMBER: ARCH-L-PA3-200-750-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399871
 CATALOG NUMBER: ARCH-L-PA3-200-750-U-T3-HSS

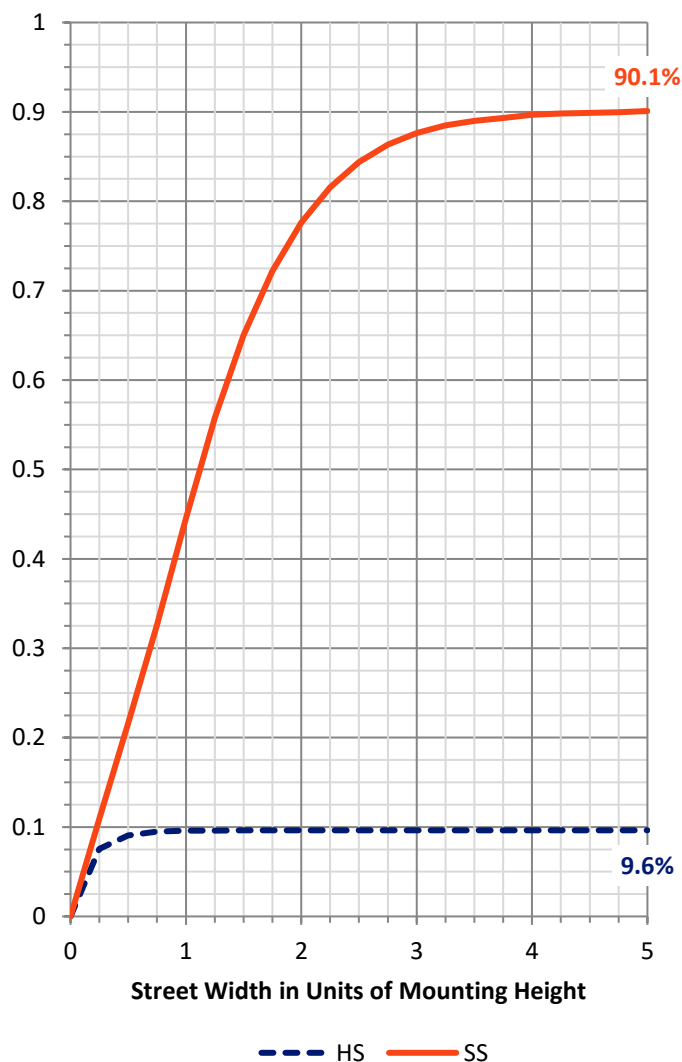
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.5	0.0	2060.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	19128.5	0.0	19128.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	21189.0	0.0	21189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.1
10°-20°	607.7	2.9
20°-30°	954.7	4.5
30°-40°	1646.5	7.8
40°-50°	3132.7	14.8
50°-60°	4961.1	23.4
60°-70°	5789.1	27.3
70°-80°	3625.7	17.1
80°-90°	238.0	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°	21189.0	100.0
0°-180°	21189.0	100.0

Coefficient of Utilization



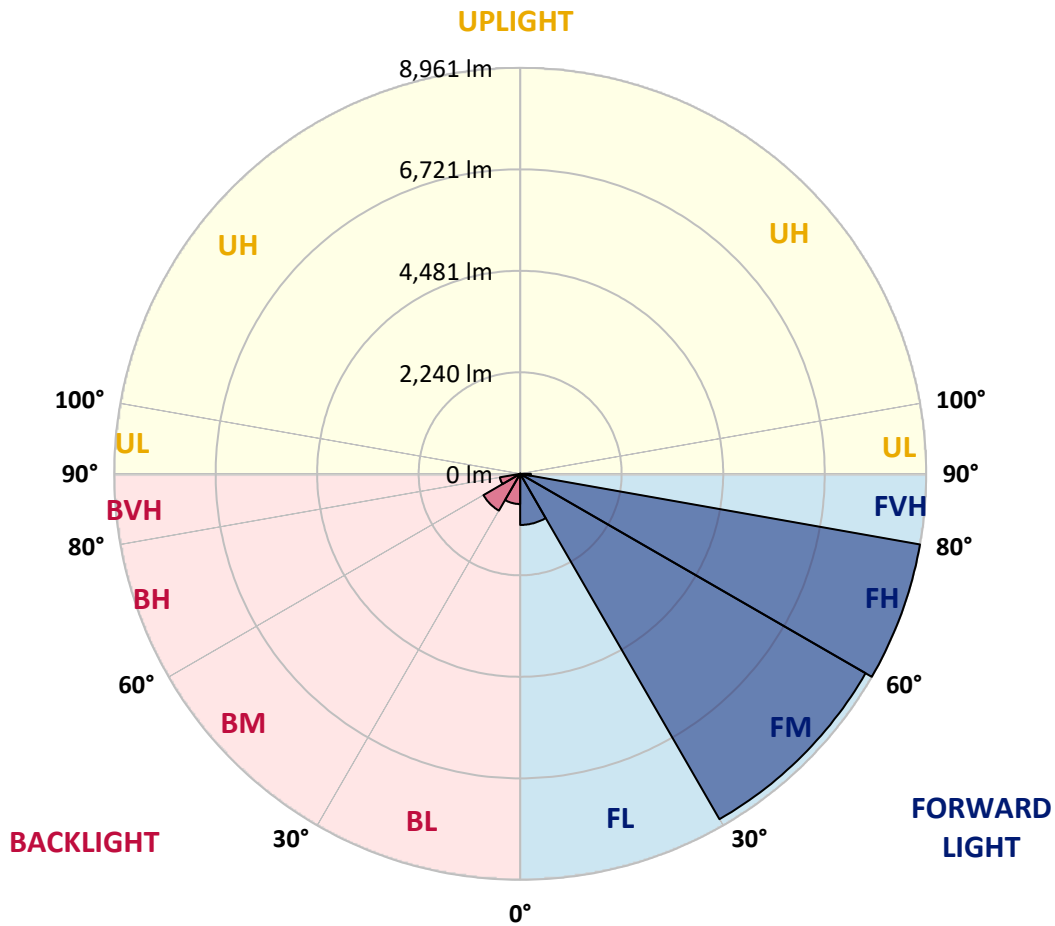
REPORT NUMBER: P399871
 CATALOG NUMBER: ARCH-L-PA3-200-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.6	5.3			
FM (30°-60°)	8802.8	41.5			
FH (60°-80°)	8961.4	42.3			G4/12000
FVH (80°-90°)	235.7	1.1			G3/500
BL (0°-30°)	667.2	3.1	B2/1000		
BM (30°-60°)	937.5	4.4	B1/1000		
BH (60°-80°)	453.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.3	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





REPORT NUMBER: P399871

CATALOG NUMBER: ARCH-L-PA3-200-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	2531.2	2519.8	2516.0	2512.2	2516.0	2519.8	2508.4	2519.8	2512.2	2516.0	2523.6
5°	2440.2	2428.9	2425.1	2428.9	2440.2	2459.2	2466.8	2478.1	2478.1	2489.5	2493.3
7.5°	2337.9	2330.4	2326.6	2334.1	2356.9	2398.6	2421.3	2436.5	2451.6	2474.3	2497.1
10°	2281.1	2277.3	2273.5	2284.9	2307.6	2345.5	2375.8	2398.6	2455.4	2519.8	2561.5
12.5°	2243.2	2243.2	2250.8	2273.5	2303.8	2334.1	2406.1	2436.5	2523.6	2622.1	2679.0
15°	2212.9	2212.9	2224.3	2265.9	2307.6	2379.6	2485.7	2519.8	2622.1	2743.4	2819.2
17.5°	2190.2	2197.7	2205.3	2247.0	2326.6	2447.8	2572.9	2622.1	2747.2	2879.8	2963.2
20°	2193.9	2201.5	2205.3	2247.0	2360.7	2527.4	2686.5	2743.4	2887.4	3027.6	3110.9
22.5°	2216.7	2228.0	2231.8	2288.7	2421.3	2610.8	2815.4	2879.8	3035.1	3182.9	3247.3
25°	2311.4	2319.0	2296.3	2345.5	2508.4	2739.6	2982.1	3050.3	3205.7	3342.1	3395.1
27.5°	2633.5	2641.1	2516.0	2459.2	2576.7	2845.7	3186.7	3281.4	3474.7	3565.6	3573.2
30°	3330.7	3338.3	3092.0	2823.0	2739.6	2936.6	3300.4	3433.0	3683.1	3785.4	3739.9
32.5°	4228.7	4221.2	3883.9	3486.1	3126.1	3095.8	3463.3	3603.5	3876.3	3974.9	3940.8
35°	5130.6	5141.9	4854.0	4255.3	3739.9	3395.1	3671.7	3834.7	4164.3	4304.5	4243.9
37.5°	5748.2	5824.0	5699.0	5051.0	4494.0	3948.3	4009.0	4183.3	4596.3	4785.8	4656.9
40°	6619.7	6600.8	6297.6	5820.2	5327.6	4766.8	4554.6	4638.0	5111.6	5365.5	5164.7
42.5°	7790.6	7752.7	7237.4	6771.3	6221.9	5763.4	5331.4	5316.2	5702.7	5998.3	5706.5
45°	8851.6	8794.7	8442.3	7991.4	7388.9	6862.2	6278.7	6146.1	6415.1	6665.2	6324.2
47.5°	9696.6	9601.8	9351.7	9113.0	8965.2	8146.8	7271.5	7070.6	7207.1	7392.7	6911.5
50°	10696.9	10435.4	10071.7	9927.7	10234.6	9601.8	8226.3	8033.1	8025.5	8131.6	7517.8
52.5°	11151.6	10678.0	10473.3	10594.6	11136.4	10954.6	9257.0	8980.4	8870.5	8881.9	8082.4
55°	10602.2	10549.1	10659.0	11037.9	11746.5	11640.4	10246.0	9905.0	9742.0	9537.4	8624.2
57.5°	9977.0	10139.9	10575.6	11299.4	12519.5	12356.6	11219.8	10833.3	10534.0	10064.1	9226.7
60°	9401.0	9567.7	10287.7	11360.0	12943.9	13046.2	12030.7	11663.1	11219.8	10602.2	9889.8
62.5°	8525.7	8654.5	9666.2	11272.9	12758.2	13447.9	12595.3	12318.7	11905.7	11113.7	10651.4
65°	7540.5	7623.9	8624.2	10575.6	12394.5	13402.4	13061.4	12906.0	12504.3	11648.0	11405.5
67.5°	6460.6	6559.1	7392.7	9321.4	11682.1	13190.2	13500.9	13485.8	13027.3	12239.1	11951.1
70°	5217.7	5225.3	5914.9	7730.0	10439.2	12765.8	14046.6	14080.7	13527.4	12682.4	11973.9
72.5°	2497.1	2701.7	3834.7	5395.8	8484.0	11932.2	14402.7	14573.2	13841.9	12667.3	10681.7
75°	572.2	591.1	1117.8	2565.3	4975.2	9158.5	13512.3	13830.6	13076.5	10954.6	7525.3
77.5°	208.4	219.8	314.5	750.3	1913.5	4732.7	9670.0	10136.1	9666.2	7082.0	3558.1
80°	140.2	136.4	162.9	333.4	879.1	1341.4	4944.9	5221.5	4766.8	2417.5	852.6
82.5°	72.0	75.8	113.7	185.7	591.1	466.1	1652.1	1796.1	1477.8	485.0	159.1
85°	34.1	34.1	64.4	117.5	250.1	162.9	367.6	443.3	397.9	212.2	53.0
87.5°	34.1	34.1	60.6	75.8	128.8	68.2	90.9	113.7	106.1	113.7	18.9
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: P399871
 CATALOG NUMBER: ARCH-L-PA3-200-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	2523.6	2519.8	2516.0	2523.6	2519.8	2527.4	2527.4	2535.0	2535.0	2527.4	2523.6
5°	2489.5	2481.9	2474.3	2474.3	2470.6	2478.1	2500.9	2519.8	2523.6	2512.2	2508.4
7.5°	2493.3	2493.3	2485.7	2470.6	2444.0	2444.0	2444.0	2466.8	2478.1	2470.6	2466.8
10°	2561.5	2565.3	2546.3	2512.2	2466.8	2425.1	2345.5	2228.0	2118.2	2087.8	2076.5
12.5°	2679.0	2682.8	2644.9	2584.2	2489.5	2243.2	1940.1	1659.7	1443.7	1383.1	1371.7
15°	2819.2	2823.0	2754.7	2656.2	2368.2	1796.1	1345.2	1026.9	837.4	791.9	788.2
17.5°	2963.2	2955.6	2853.3	2663.8	2008.3	1273.2	818.5	655.5	606.3	594.9	598.7
20°	3103.4	3080.6	2940.4	2523.6	1546.0	833.6	598.7	560.8	549.4	541.9	541.9
22.5°	3232.2	3186.7	3012.4	2247.0	1083.7	598.7	534.3	526.7	511.5	500.2	496.4
25°	3361.0	3296.6	3057.9	1887.0	727.5	522.9	504.0	488.8	469.9	454.7	450.9
27.5°	3516.4	3425.4	3035.1	1432.3	545.6	485.0	469.9	447.1	420.6	397.9	390.3
30°	3664.2	3561.8	2906.3	989.0	466.1	447.1	424.4	390.3	356.2	329.7	322.1
32.5°	3849.8	3732.4	2675.2	648.0	405.4	390.3	367.6	325.9	280.4	250.1	242.5
35°	4115.1	3982.4	2379.6	454.7	356.2	329.7	299.3	253.9	204.6	181.9	178.1
37.5°	4486.4	4308.3	2008.3	367.6	314.5	276.6	231.1	185.7	151.6	132.6	128.8
40°	4941.1	4668.3	1595.3	325.9	280.4	231.1	174.3	132.6	109.9	94.7	94.7
42.5°	5433.7	5005.5	1174.7	299.3	246.3	189.5	128.8	94.7	79.6	72.0	68.2
45°	5941.5	5304.9	791.9	276.6	216.0	144.0	90.9	64.4	53.0	53.0	49.3
47.5°	6468.2	5505.7	511.5	250.1	181.9	106.1	60.6	45.5	37.9	37.9	37.9
50°	6991.1	5611.8	363.8	227.4	147.8	72.0	45.5	34.1	30.3	30.3	30.3
52.5°	7370.0	5543.6	291.8	197.0	113.7	53.0	34.1	26.5	22.7	22.7	22.7
55°	7699.6	5426.1	253.9	170.5	83.4	37.9	26.5	22.7	18.9	18.9	18.9
57.5°	8036.9	5274.6	227.4	144.0	60.6	26.5	18.9	15.2	15.2	15.2	15.2
60°	8343.8	5016.9	197.0	113.7	41.7	18.9	15.2	11.4	11.4	11.4	11.4
62.5°	8643.2	4797.1	170.5	87.2	30.3	15.2	7.6	7.6	3.8	3.8	3.8
65°	8813.7	4501.6	136.4	56.8	18.9	11.4	3.8	3.8	0.0	0.0	0.0
67.5°	8760.6	4149.2	94.7	34.1	11.4	7.6	3.8	0.0	0.0	0.0	0.0
70°	8393.1	3675.5	56.8	18.9	11.4	7.6	3.8	0.0	0.0	0.0	0.0
72.5°	7029.0	2720.6	34.1	15.2	7.6	3.8	0.0	0.0	0.0	0.0	0.0
75°	4694.8	1250.4	18.9	11.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	2148.5	375.1	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	432.0	98.5	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.9	18.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	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)