

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: P399968

Luminaire Tested: **ARCH-L-PA3-210-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399968
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-PA3-210-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 900mA 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: 16421 lumens
Efficiency: N/A
Efficacy: 77.8 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

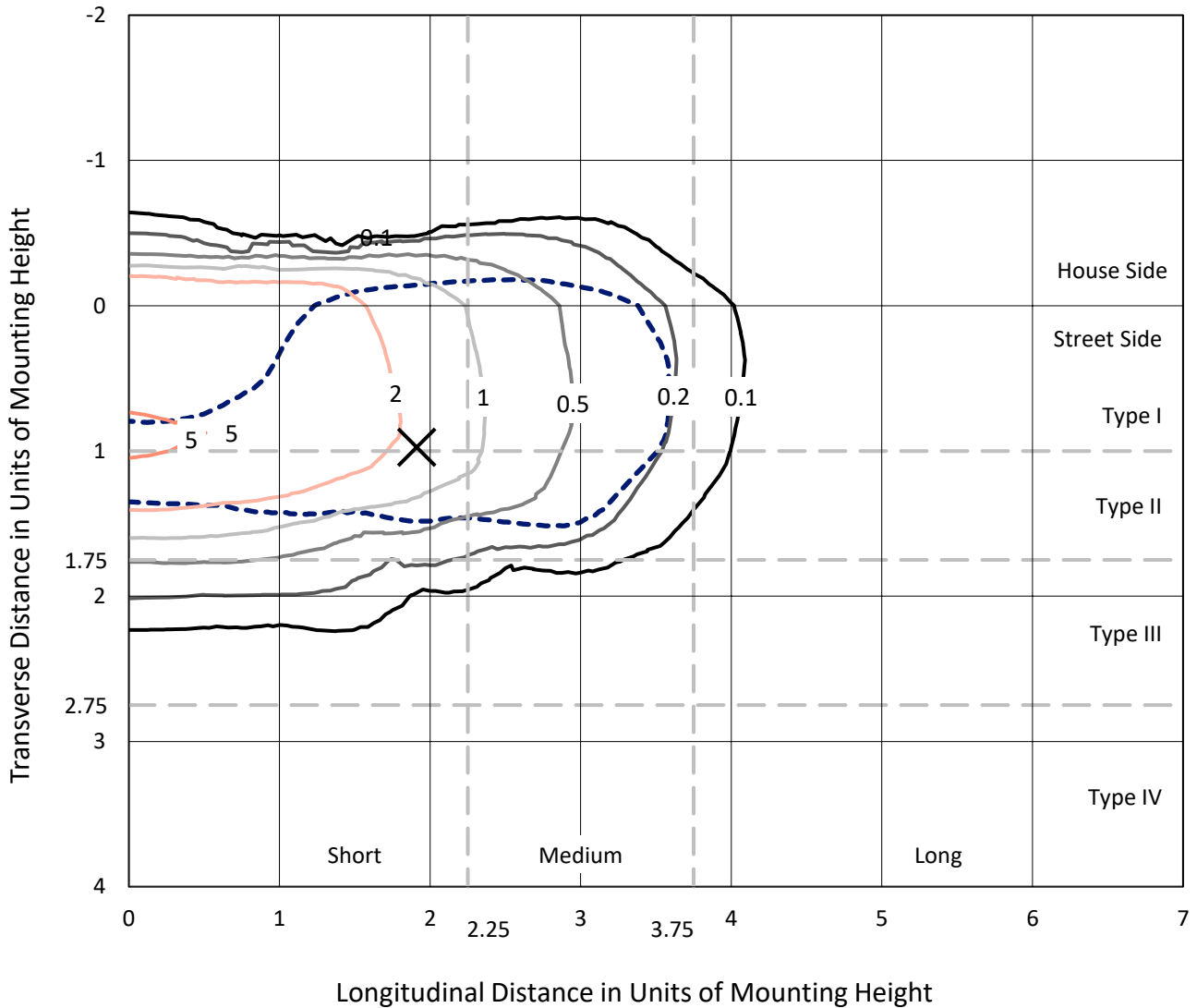
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399968
 CATALOG NUMBER: ARCH-L-PA3-210-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

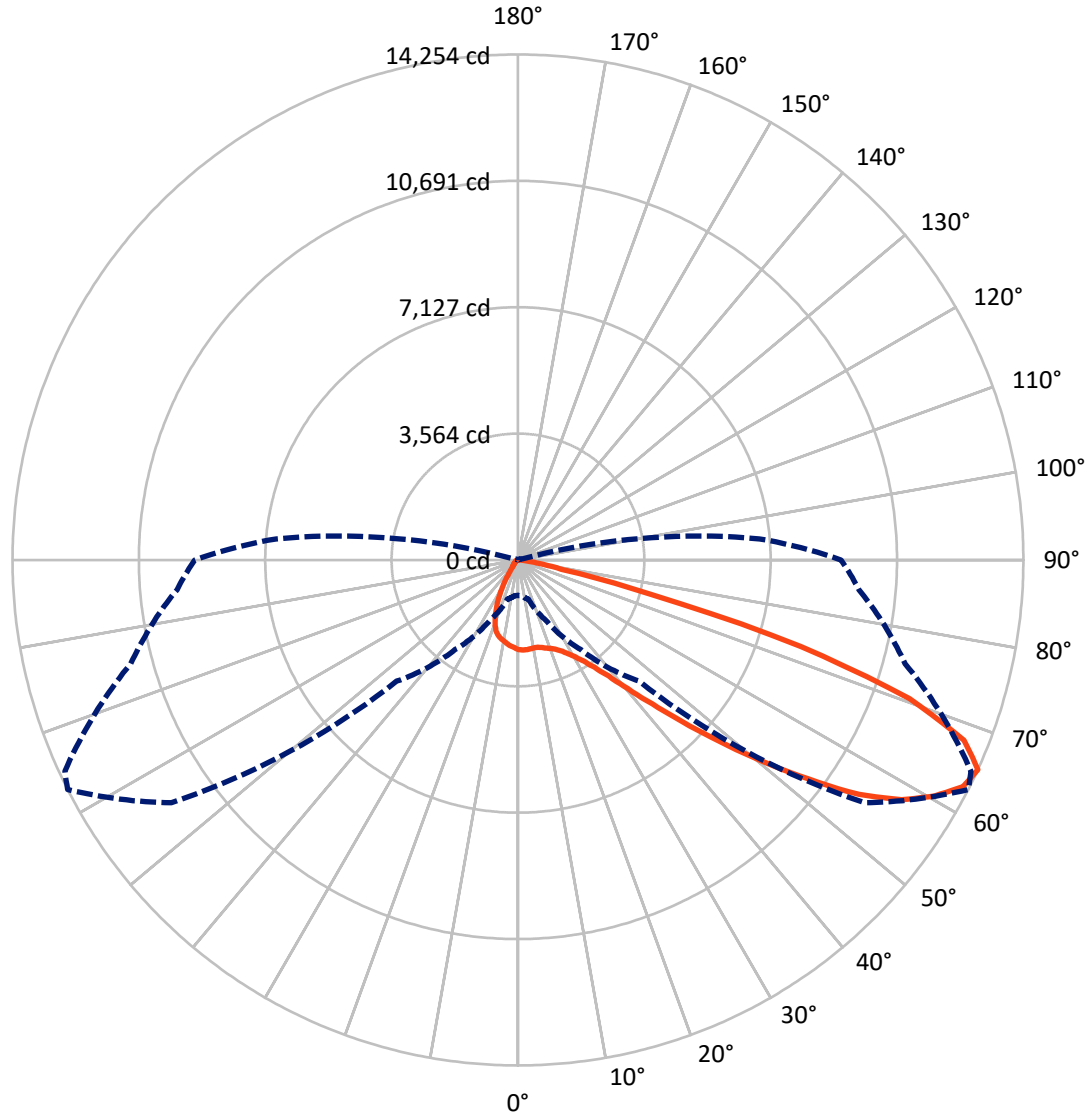
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P399968
CATALOG NUMBER: ARCH-L-PA3-210-830-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399968
 CATALOG NUMBER: ARCH-L-PA3-210-830-U-T2U-HSS

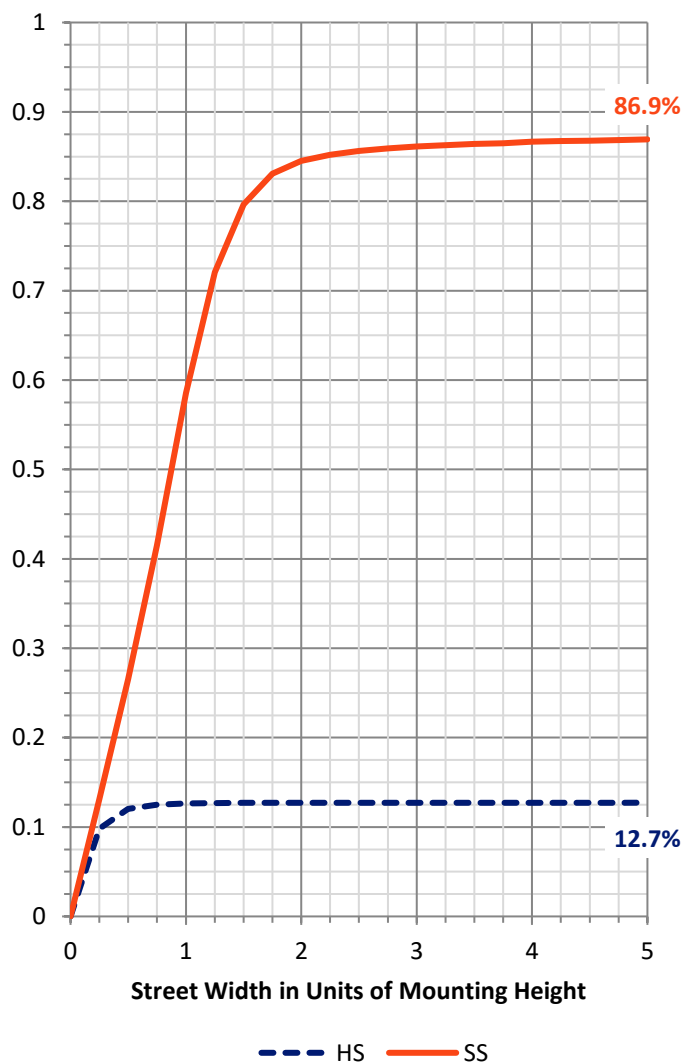
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2113.4	0.0	2113.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	14307.6	0.0	14307.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	16421.0	0.0	16421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.4
10°-20°	569.4	3.5
20°-30°	844.0	5.1
30°-40°	1567.1	9.5
40°-50°	3319.8	20.2
50°-60°	4590.4	28.0
60°-70°	3674.7	22.4
70°-80°	1526.8	9.3
80°-90°	98.0	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°	16421.0	100.0
0°-180°	16421.0	100.0

Coefficient of Utilization

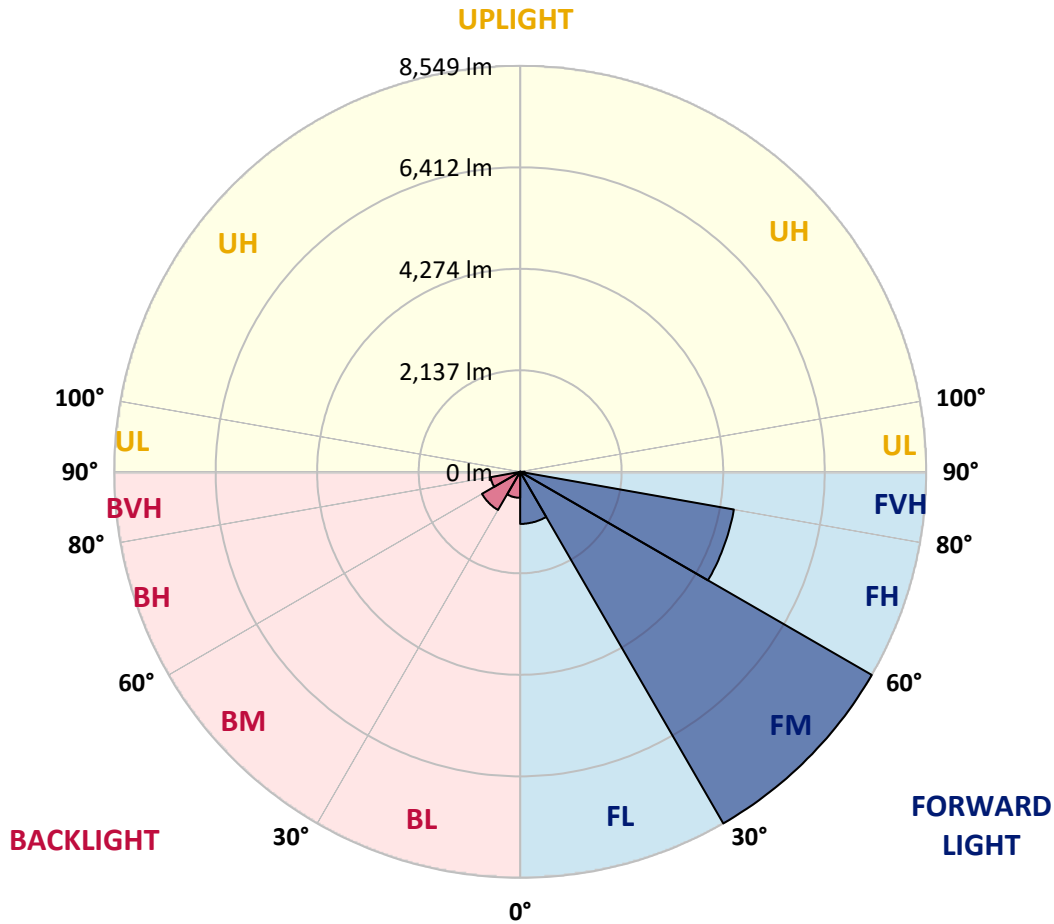


REPORT NUMBER: P399968
 CATALOG NUMBER: ARCH-L-PA3-210-830-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.6	6.7			
FM (30°-60°)	8548.8	52.1			
FH (60°-80°)	4568.7	27.8			G2/5000
FVH (80°-90°)	93.6	0.6			G1/100
BL (0°-30°)	547.7	3.3	B2/1000		
BM (30°-60°)	928.4	5.7	B1/1000		
BH (60°-80°)	632.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	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





REPORT NUMBER: P399968

CATALOG NUMBER: ARCH-L-PA3-210-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7
2.5°	2573.1	2566.9	2560.7	2557.6	2557.6	2554.5	2542.1	2539.0	2532.8	2526.6	2520.4
5°	2548.3	2539.0	2535.9	2539.0	2542.1	2548.3	2542.1	2542.1	2535.9	2529.7	2517.3
7.5°	2486.3	2480.1	2483.2	2492.5	2495.6	2517.3	2520.4	2529.7	2529.7	2523.5	2514.2
10°	2411.9	2408.8	2408.8	2424.3	2439.8	2470.8	2492.5	2517.3	2520.4	2520.4	2504.9
12.5°	2356.1	2353.0	2362.3	2380.9	2411.9	2452.2	2489.4	2526.6	2532.8	2535.9	2511.1
15°	2322.0	2322.0	2334.4	2371.6	2415.0	2470.8	2514.2	2563.8	2570.0	2566.9	2532.8
17.5°	2291.0	2294.1	2318.9	2380.9	2430.5	2504.9	2557.6	2613.4	2616.5	2613.4	2557.6
20°	2278.6	2284.8	2322.0	2402.6	2458.4	2542.1	2610.3	2666.1	2669.2	2656.8	2582.4
22.5°	2312.7	2315.8	2362.3	2449.1	2501.8	2594.8	2681.6	2734.3	2737.4	2718.8	2619.6
25°	2430.5	2430.5	2470.8	2545.2	2591.7	2684.7	2777.7	2839.7	2839.7	2818.0	2703.3
27.5°	2706.4	2681.6	2672.3	2694.0	2709.5	2808.7	2907.9	2985.4	2982.3	2951.3	2811.8
30°	3239.6	3177.6	3078.4	2966.8	2911.0	2979.2	3072.2	3171.4	3168.3	3118.7	2945.1
32.5°	4135.5	4045.6	3810.0	3515.5	3276.8	3199.3	3286.1	3394.6	3397.7	3338.8	3159.0
35°	5391.0	5248.4	4826.8	4417.6	3872.0	3577.5	3602.3	3720.1	3757.3	3726.3	3518.6
37.5°	6600.1	6469.9	6066.9	5499.5	4758.6	4157.2	4051.8	4154.1	4197.5	4197.5	3977.4
40°	7818.4	7666.5	7310.0	6739.6	5958.4	5062.4	4684.2	4767.9	4814.4	4823.7	4535.4
42.5°	8794.9	8695.7	8422.9	7979.6	7248.0	6649.7	5595.6	5549.1	5592.5	5558.4	5183.3
45°	9470.7	9393.2	9204.1	9036.7	8680.2	8379.5	6814.0	6500.9	6528.8	6411.0	5911.8
47.5°	9610.2	9523.4	9483.1	9715.6	9969.9	10044.3	8311.3	7632.4	7604.5	7344.1	6668.3
50°	9002.6	9011.9	9160.7	9824.1	10884.4	11554.0	10047.4	8909.6	8807.3	8227.6	7372.0
52.5°	7691.3	7840.1	8215.2	9290.9	11163.4	12651.4	11783.4	10264.4	10106.3	9086.3	7899.0
55°	6017.3	6209.5	6826.4	8063.3	10580.6	13141.2	13246.6	11671.8	11312.2	9731.1	8308.2
57.5°	4473.4	4532.3	5251.5	6380.0	9201.0	12660.7	13996.9	12756.8	12294.9	10245.8	8714.3
60°	2787.0	2824.2	3583.7	4857.8	6969.0	10884.4	13996.9	13503.9	13063.7	10707.7	9086.3
62.5°	1732.9	1745.3	2030.6	3329.5	4736.9	8072.6	13417.1	14083.7	13730.2	11039.4	9405.6
65°	998.2	1010.6	1143.9	1881.7	3081.5	4833.0	11935.3	14254.2	14096.1	11302.9	9653.6
67.5°	728.5	734.7	787.4	1057.1	2015.1	2483.2	8965.4	13569.0	13767.4	11433.1	9647.4
70°	632.4	641.7	709.9	824.6	1453.9	1525.2	4563.3	11718.3	12273.2	11247.1	9359.1
72.5°	486.7	499.1	601.4	775.0	1066.4	1097.4	1652.3	8339.2	9179.3	10084.6	8568.6
75°	334.8	347.2	449.5	638.6	880.4	821.5	908.3	3837.9	4842.3	6764.4	6522.6
77.5°	213.9	217.0	282.1	465.0	759.5	582.8	623.1	1252.4	1757.7	3059.8	3078.4
80°	142.6	145.7	173.6	300.7	520.8	539.4	384.4	579.7	635.5	892.8	620.0
82.5°	86.8	86.8	117.8	189.1	316.2	446.4	251.1	303.8	325.5	344.1	161.2
85°	34.1	34.1	71.3	124.0	198.4	207.7	158.1	176.7	186.0	201.5	74.4
87.5°	9.3	9.3	40.3	68.2	86.8	96.1	96.1	86.8	93.0	114.7	37.2
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: P399968

CATALOG NUMBER: ARCH-L-PA3-210-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7
2.5°	2517.3	2508.0	2495.6	2483.2	2470.8	2461.5	2452.2	2452.2	2446.0	2436.7	2430.5
5°	2511.1	2495.6	2467.7	2446.0	2411.9	2387.1	2368.5	2353.0	2343.7	2322.0	2318.9
7.5°	2501.8	2483.2	2442.9	2399.5	2343.7	2300.3	2256.9	2225.9	2194.9	2170.1	2163.9
10°	2486.3	2464.6	2405.7	2343.7	2266.2	2185.6	2083.3	1965.4	1856.9	1794.9	1776.3
12.5°	2486.3	2458.4	2380.9	2297.2	2185.6	1987.2	1726.7	1466.3	1264.8	1174.9	1150.1
15°	2501.8	2464.6	2362.3	2247.6	2039.9	1636.8	1215.2	871.1	651.0	582.8	567.3
17.5°	2517.3	2464.6	2334.4	2179.4	1773.2	1187.3	691.3	458.8	387.5	372.0	372.0
20°	2523.5	2458.4	2297.2	2052.3	1416.7	737.8	412.3	344.1	316.2	306.9	306.9
22.5°	2548.3	2461.5	2269.3	1869.3	1029.2	434.0	325.5	288.3	260.4	251.1	251.1
25°	2610.3	2498.7	2275.5	1636.8	660.3	328.6	275.9	238.7	210.8	198.4	198.4
27.5°	2709.5	2582.4	2309.6	1367.1	415.4	282.1	232.5	192.2	170.5	158.1	158.1
30°	2821.1	2675.4	2325.1	1057.1	310.0	238.7	189.1	151.9	136.4	127.1	124.0
32.5°	3016.4	2836.6	2312.7	725.4	254.2	201.5	151.9	120.9	108.5	105.4	105.4
35°	3329.5	3118.7	2287.9	455.7	210.8	161.2	120.9	99.2	89.9	86.8	83.7
37.5°	3754.2	3531.0	2213.5	300.7	173.6	127.1	99.2	83.7	74.4	71.3	71.3
40°	4271.9	4002.2	2070.9	229.4	148.8	102.3	83.7	71.3	65.1	62.0	62.0
42.5°	4864.0	4526.1	1844.5	198.4	124.0	86.8	71.3	58.9	55.8	52.7	52.7
45°	5511.9	5074.8	1531.4	176.7	105.4	71.3	58.9	52.7	46.5	46.5	43.4
47.5°	6200.2	5626.6	1178.0	155.0	89.9	62.0	52.7	43.4	40.3	37.2	37.2
50°	6863.6	6119.6	827.7	133.3	74.4	52.7	43.4	37.2	34.1	31.0	31.0
52.5°	7331.7	6417.2	585.9	114.7	62.0	46.5	34.1	27.9	24.8	24.8	24.8
55°	7706.8	6603.2	409.2	96.1	52.7	40.3	27.9	21.7	21.7	18.6	18.6
57.5°	8060.2	6724.1	300.7	80.6	43.4	31.0	21.7	15.5	15.5	12.4	12.4
60°	8426.0	6789.2	229.4	65.1	37.2	24.8	15.5	12.4	9.3	9.3	9.3
62.5°	8794.9	6829.5	176.7	52.7	31.0	18.6	12.4	9.3	6.2	3.1	3.1
65°	9117.3	6841.9	136.4	40.3	24.8	12.4	9.3	3.1	0.0	0.0	0.0
67.5°	9213.4	6699.3	105.4	31.0	18.6	9.3	6.2	0.0	0.0	0.0	0.0
70°	8953.0	6321.1	80.6	24.8	15.5	6.2	3.1	0.0	0.0	0.0	0.0
72.5°	7945.5	5301.1	62.0	15.5	12.4	6.2	3.1	0.0	0.0	0.0	0.0
75°	5685.5	2827.3	43.4	12.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	2616.5	1094.3	31.0	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	511.5	272.8	12.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	117.8	46.5	6.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.3	15.5	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	6.2	3.1	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)