

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: P400476

Luminaire Tested: **ARCH-L-PA3-280-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400476
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-PA3-280-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1180mA 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: 20519 lumens
Efficiency: N/A
Efficacy: 73.5 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

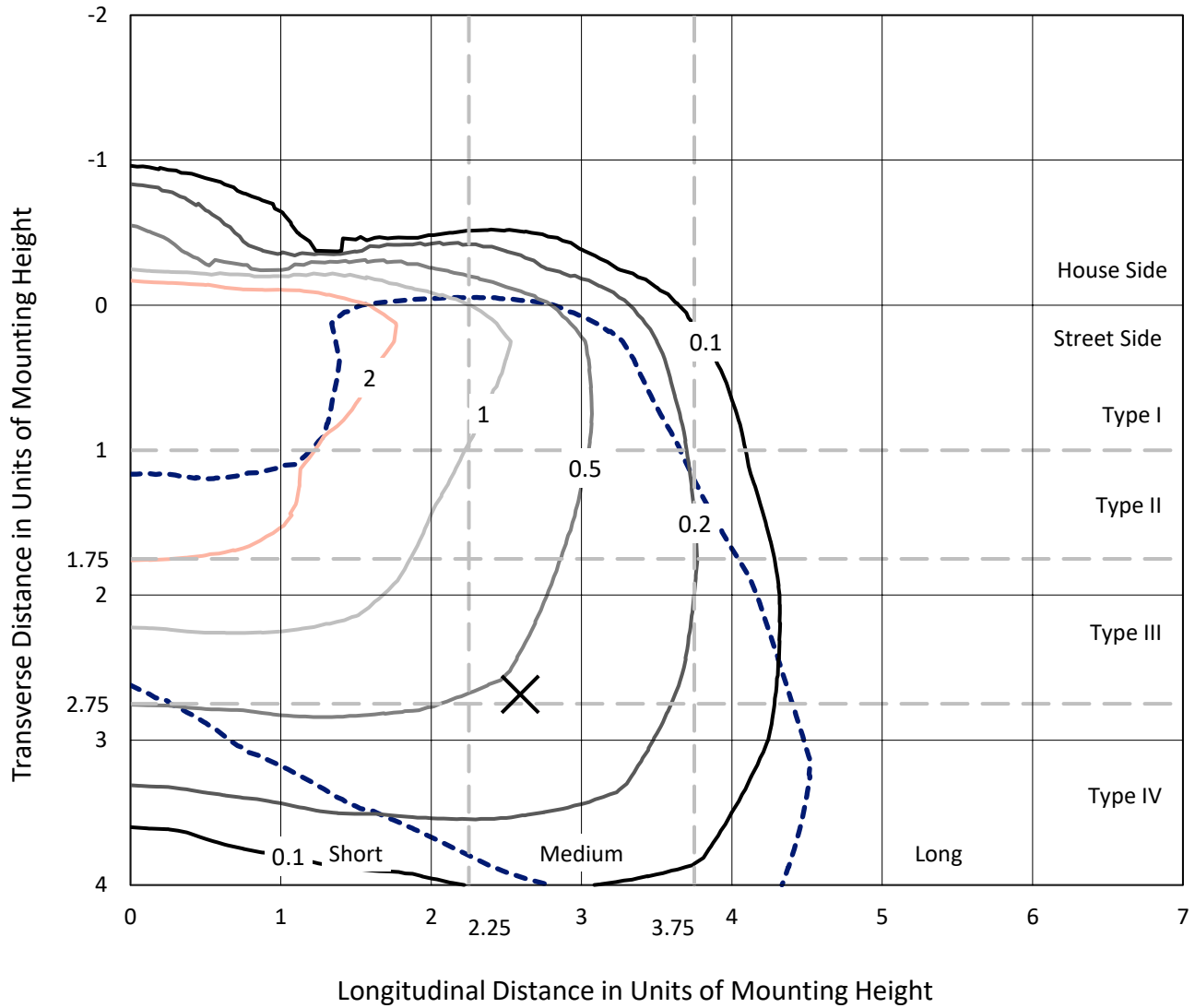
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

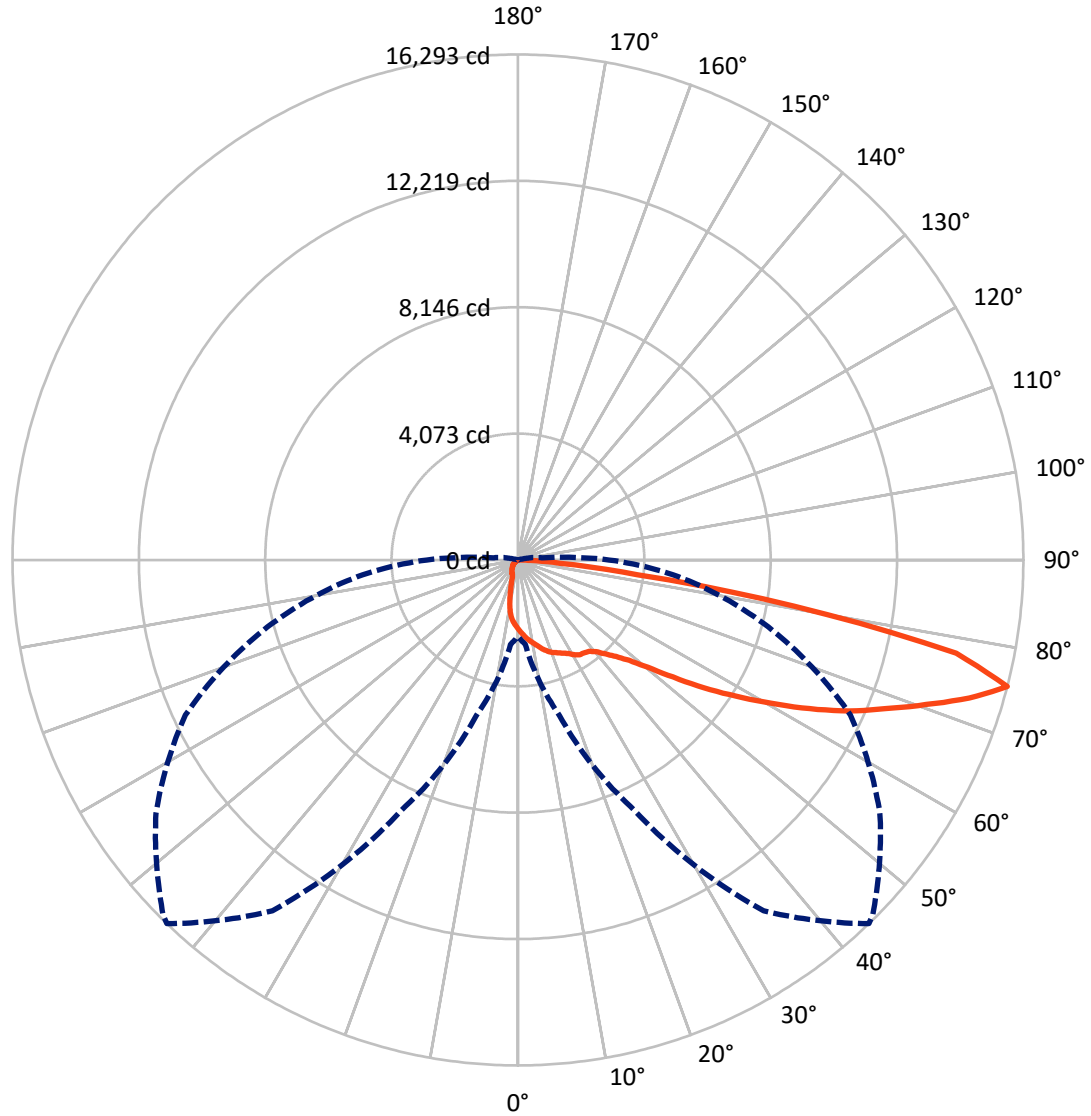
× Max cd
 - - - 1/2 Max cd



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

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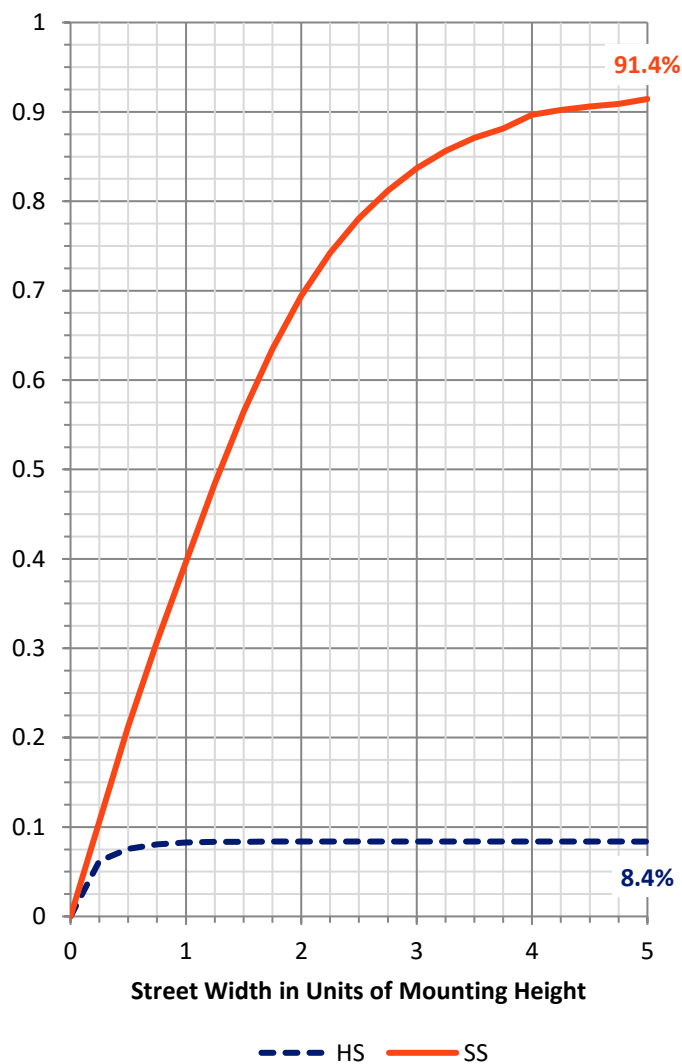
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1730.4	0.0	1730.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18788.6	0.0	18788.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	20519.0	0.0	20519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	1.0
10°-20°	590.2	2.9
20°-30°	974.0	4.7
30°-40°	1413.7	6.9
40°-50°	2298.0	11.2
50°-60°	4051.1	19.7
60°-70°	5822.3	28.4
70°-80°	4662.4	22.7
80°-90°	496.7	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°	20519.0	100.0
0°-180°	20519.0	100.0

Coefficient of Utilization



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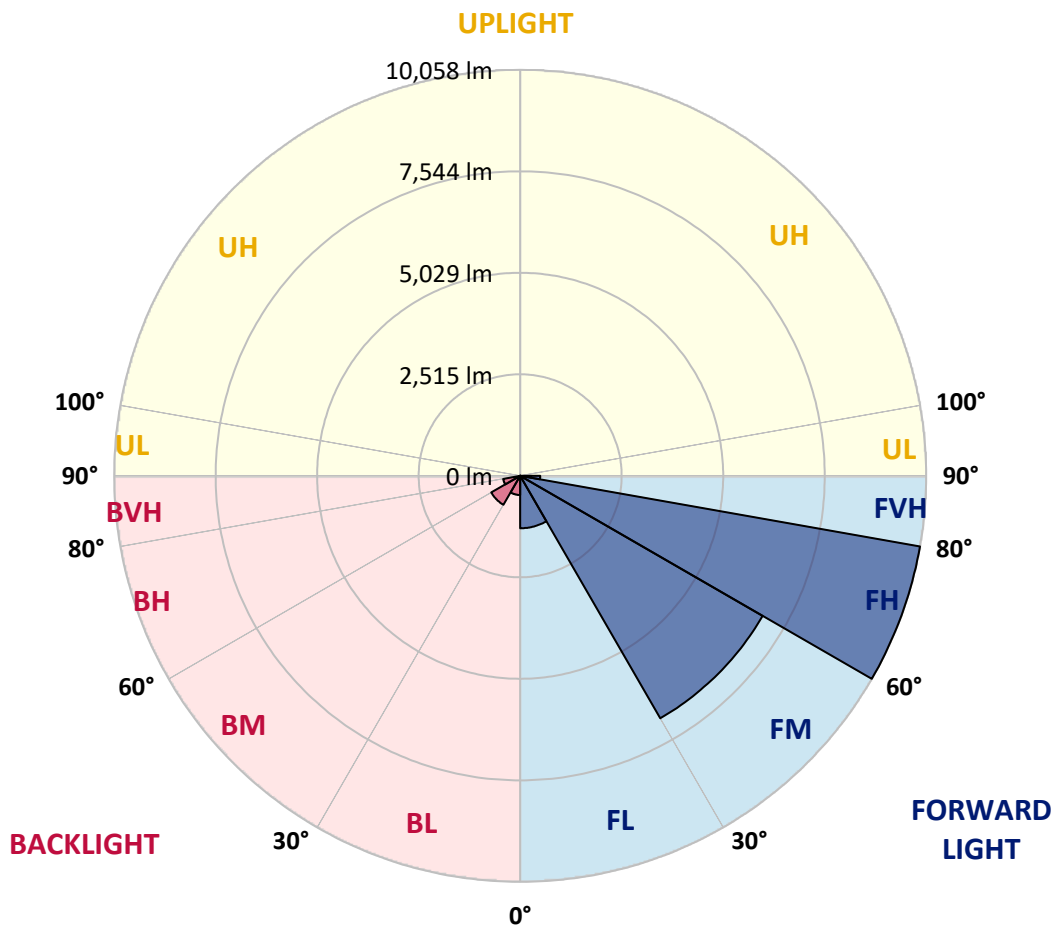
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.4	6.3			
FM (30°-60°)	6935.6	33.8			
FH (60°-80°)	10058.1	49.0			G4/12000
FVH (80°-90°)	495.5	2.4			G3/500
BL (0°-30°)	475.4	2.3	B1/500		
BM (30°-60°)	827.2	4.0	B1/1000		
BH (60°-80°)	426.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4
2.5°	2434.0	2430.3	2418.9	2400.0	2381.0	2362.1	2358.3	2328.1	2294.0	2267.5	2244.8
5°	2649.8	2646.0	2627.1	2585.5	2543.8	2494.6	2490.8	2418.9	2354.5	2282.6	2222.1
7.5°	2873.2	2865.6	2831.5	2767.2	2695.2	2619.5	2612.0	2506.0	2411.3	2316.7	2229.6
10°	3047.3	3039.7	2990.5	2914.8	2816.4	2721.7	2710.4	2600.6	2506.0	2384.8	2267.5
12.5°	3217.6	3202.5	3138.1	3054.9	2933.7	2842.9	2831.5	2718.0	2604.4	2479.5	2335.6
15°	3376.6	3357.7	3297.1	3191.1	3062.4	2975.4	2967.8	2846.7	2729.3	2585.5	2426.5
17.5°	3486.4	3478.8	3406.9	3289.6	3164.6	3092.7	3085.1	2960.2	2842.9	2691.5	2521.1
20°	3543.2	3543.2	3475.0	3346.3	3232.8	3183.6	3172.2	3054.9	2941.3	2797.4	2619.5
22.5°	3554.5	3565.9	3512.9	3372.8	3289.6	3247.9	3240.3	3138.1	3028.4	2895.9	2729.3
25°	3577.3	3577.3	3550.8	3399.3	3338.8	3327.4	3323.6	3232.8	3134.4	3001.9	2839.1
27.5°	3603.7	3603.7	3584.8	3437.2	3414.5	3410.7	3406.9	3365.3	3285.8	3130.6	2967.8
30°	3671.9	3675.7	3660.5	3512.9	3497.8	3539.4	3547.0	3524.3	3425.8	3232.8	3100.3
32.5°	3842.2	3808.2	3766.5	3565.9	3592.4	3645.4	3649.2	3603.7	3497.8	3342.6	3259.3
35°	4270.0	4069.4	3880.1	3611.3	3622.7	3675.7	3683.2	3679.5	3615.1	3482.6	3441.0
37.5°	4667.5	4383.6	4114.8	3717.3	3679.5	3736.2	3751.4	3815.7	3766.5	3675.7	3687.0
40°	4898.4	4788.6	4599.3	4008.8	3793.0	3880.1	3895.2	3993.6	3974.7	3936.9	4008.8
42.5°	5610.0	5617.6	5413.2	4444.1	4001.2	4141.3	4160.2	4239.7	4266.2	4285.1	4459.3
45°	6435.3	6461.8	6412.6	5227.7	4394.9	4440.3	4466.8	4572.8	4671.2	4792.4	5110.4
47.5°	7427.1	7404.3	7222.6	6185.4	5080.1	4826.4	4845.4	5049.8	5220.1	5485.1	5939.4
50°	8305.3	8362.1	8017.6	7078.8	6045.4	5435.9	5417.0	5617.6	5924.2	6295.2	6866.8
52.5°	9191.1	9107.8	8642.2	7964.6	7188.6	6264.9	6208.1	6317.9	6749.5	7188.6	7775.3
55°	9425.8	9433.3	9274.4	8933.7	8142.5	7271.8	7177.2	7169.6	7707.2	8006.2	8729.2
57.5°	9887.6	9906.5	9944.4	10012.5	9637.8	8278.8	8180.4	8074.4	8596.8	8770.9	9687.0
60°	10357.0	10379.7	10610.6	10977.8	10728.0	9365.2	9259.2	9009.4	9300.9	9535.5	10693.9
62.5°	10296.4	10455.4	11125.4	11856.0	11825.7	10557.6	10425.1	9823.2	10008.7	10213.1	11617.5
65°	9297.1	9467.4	10974.0	12098.3	12927.3	11734.9	11519.1	10663.6	10675.0	10921.0	12507.1
67.5°	8403.7	8589.2	10027.7	11996.1	13654.1	12791.0	12567.7	11507.8	11329.9	11738.7	12984.1
70°	7888.9	8074.4	9274.4	11678.1	13858.5	13960.7	13767.7	12473.1	12109.7	12484.4	12450.3
72.5°	6174.1	6465.5	8312.8	11072.4	14078.1	15213.7	15062.3	13695.8	12772.1	11704.6	9478.8
75°	2460.5	2729.3	5189.9	8910.9	13801.7	16292.6	16175.2	14244.6	11822.0	8358.3	4852.9
77.5°	741.9	794.9	1442.3	4406.3	10118.5	14445.3	14407.4	11977.2	8365.8	3880.1	1324.9
80°	246.1	272.6	442.9	1215.1	4618.2	9024.5	9194.9	7631.5	3800.6	889.6	268.8
82.5°	102.2	113.6	223.3	488.3	1635.3	3887.7	3830.9	3418.3	1324.9	552.7	98.4
85°	26.5	34.1	102.2	280.1	598.1	1340.0	1408.2	1147.0	749.5	458.0	30.3
87.5°	0.0	0.0	49.2	113.6	268.8	405.0	424.0	348.3	424.0	344.5	15.1
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°	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4	2233.4
2.5°	2225.8	2206.9	2172.8	2150.1	2119.9	2112.3	2097.1	2078.2	2074.4	2055.5	2059.3
5°	2188.0	2157.7	2097.1	2055.5	2006.3	1991.1	1964.6	1945.7	1930.6	1904.1	1907.9
7.5°	2180.4	2135.0	2051.7	1972.2	1892.7	1835.9	1756.4	1692.1	1639.1	1582.3	1593.7
10°	2206.9	2150.1	2032.8	1923.0	1779.2	1597.5	1389.3	1253.0	1184.8	1116.7	1124.3
12.5°	2259.9	2191.8	2040.4	1873.8	1582.3	1271.9	984.2	798.7	749.5	719.2	723.0
15°	2339.4	2256.1	2063.1	1779.2	1317.3	919.9	654.9	575.4	594.3	605.7	605.7
17.5°	2422.7	2328.1	2082.0	1608.8	1018.3	643.5	533.7	526.2	552.7	579.2	579.2
20°	2524.9	2403.8	2085.8	1393.0	734.4	522.4	503.5	503.5	522.4	552.7	552.7
22.5°	2623.3	2487.0	2051.7	1147.0	560.2	484.5	484.5	484.5	495.9	526.2	530.0
25°	2740.7	2589.2	1979.8	885.8	480.8	461.8	461.8	465.6	473.2	499.7	503.5
27.5°	2865.6	2695.2	1858.7	647.3	439.1	435.3	439.1	442.9	446.7	473.2	480.8
30°	3009.4	2812.6	1703.5	484.5	401.3	401.3	412.6	420.2	420.2	442.9	450.5
32.5°	3176.0	2967.8	1518.0	401.3	363.4	359.6	378.5	389.9	389.9	408.8	416.4
35°	3384.2	3126.8	1294.6	355.8	333.1	325.5	333.1	352.0	359.6	374.8	378.5
37.5°	3660.5	3316.1	1056.1	329.3	310.4	295.3	295.3	299.1	314.2	329.3	333.1
40°	4012.6	3524.3	821.4	310.4	287.7	272.6	261.2	257.4	253.6	265.0	272.6
42.5°	4455.5	3759.0	613.2	291.5	268.8	246.1	230.9	215.8	196.8	193.1	196.8
45°	5023.3	4046.6	454.3	276.3	257.4	223.3	196.8	170.3	136.3	124.9	128.7
47.5°	5693.3	4345.7	355.8	261.2	249.8	196.8	162.8	117.3	83.3	75.7	79.5
50°	6405.0	4633.4	302.8	242.3	234.7	170.3	117.3	71.9	49.2	49.2	53.0
52.5°	7010.7	4796.2	276.3	227.1	212.0	140.1	75.7	41.6	30.3	30.3	34.1
55°	7597.4	4883.2	257.4	212.0	181.7	98.4	41.6	26.5	18.9	18.9	18.9
57.5°	8203.1	4921.1	234.7	193.1	143.8	60.6	22.7	15.1	11.4	11.4	11.4
60°	8740.6	4849.2	200.6	159.0	94.6	30.3	11.4	11.4	7.6	3.8	3.8
62.5°	9191.1	4712.9	140.1	113.6	56.8	15.1	7.6	3.8	0.0	0.0	0.0
65°	9467.4	4493.3	90.9	75.7	34.1	11.4	3.8	0.0	0.0	0.0	0.0
67.5°	9387.9	4080.7	56.8	49.2	15.1	7.6	3.8	0.0	0.0	0.0	0.0
70°	8471.8	3346.3	41.6	30.3	11.4	3.8	0.0	0.0	0.0	0.0	0.0
72.5°	6105.9	2263.7	30.3	18.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2937.5	806.3	18.9	15.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	719.2	177.9	11.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.0	34.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.0	15.1	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°	11.4	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)