

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: P399810

Luminaire Tested: **ARCH-L-PA3-190-760-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399810
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-PA3-190-760-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 810mA 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: 19952 lumens
Efficiency: N/A
Efficacy: 105.6 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

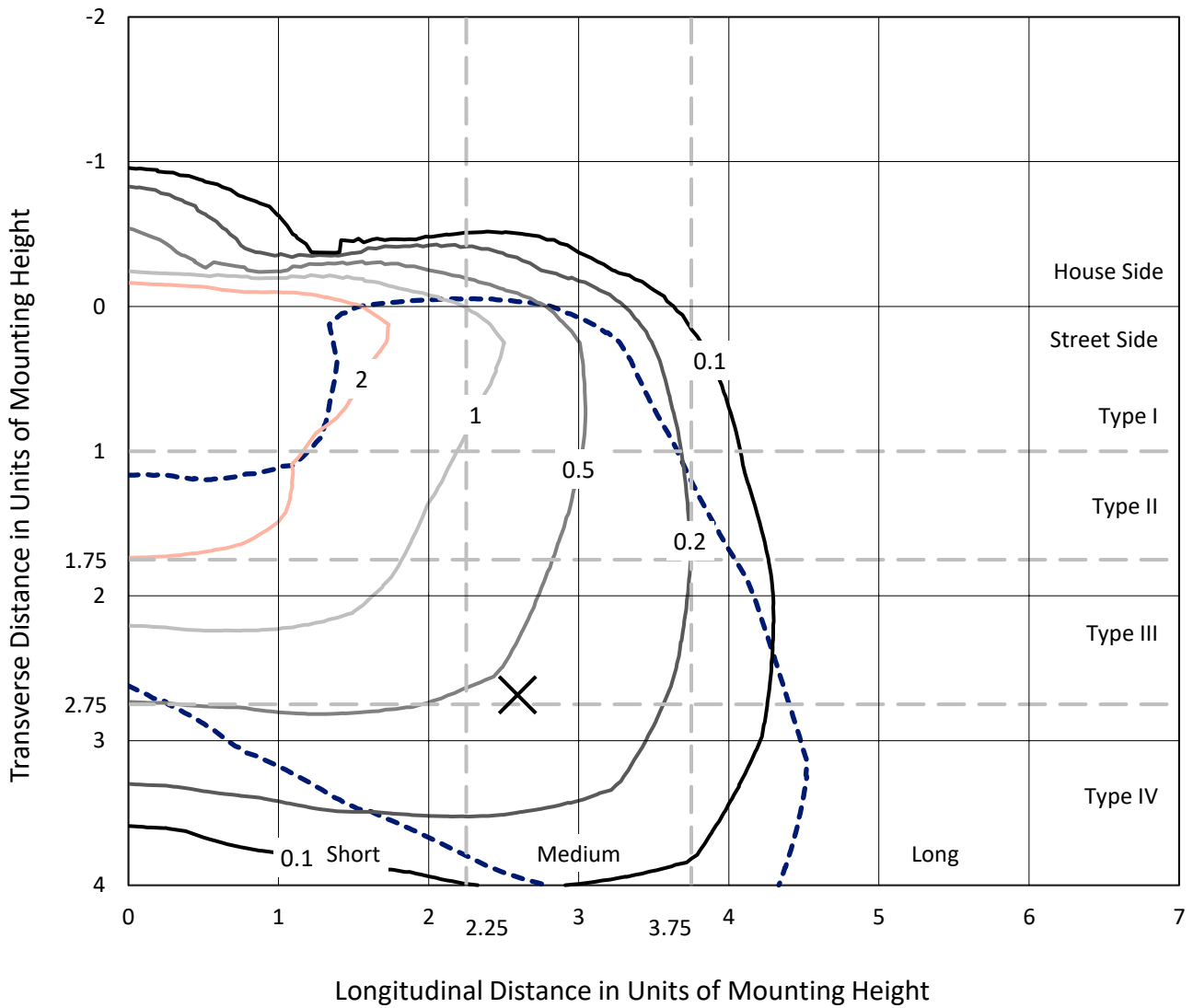
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

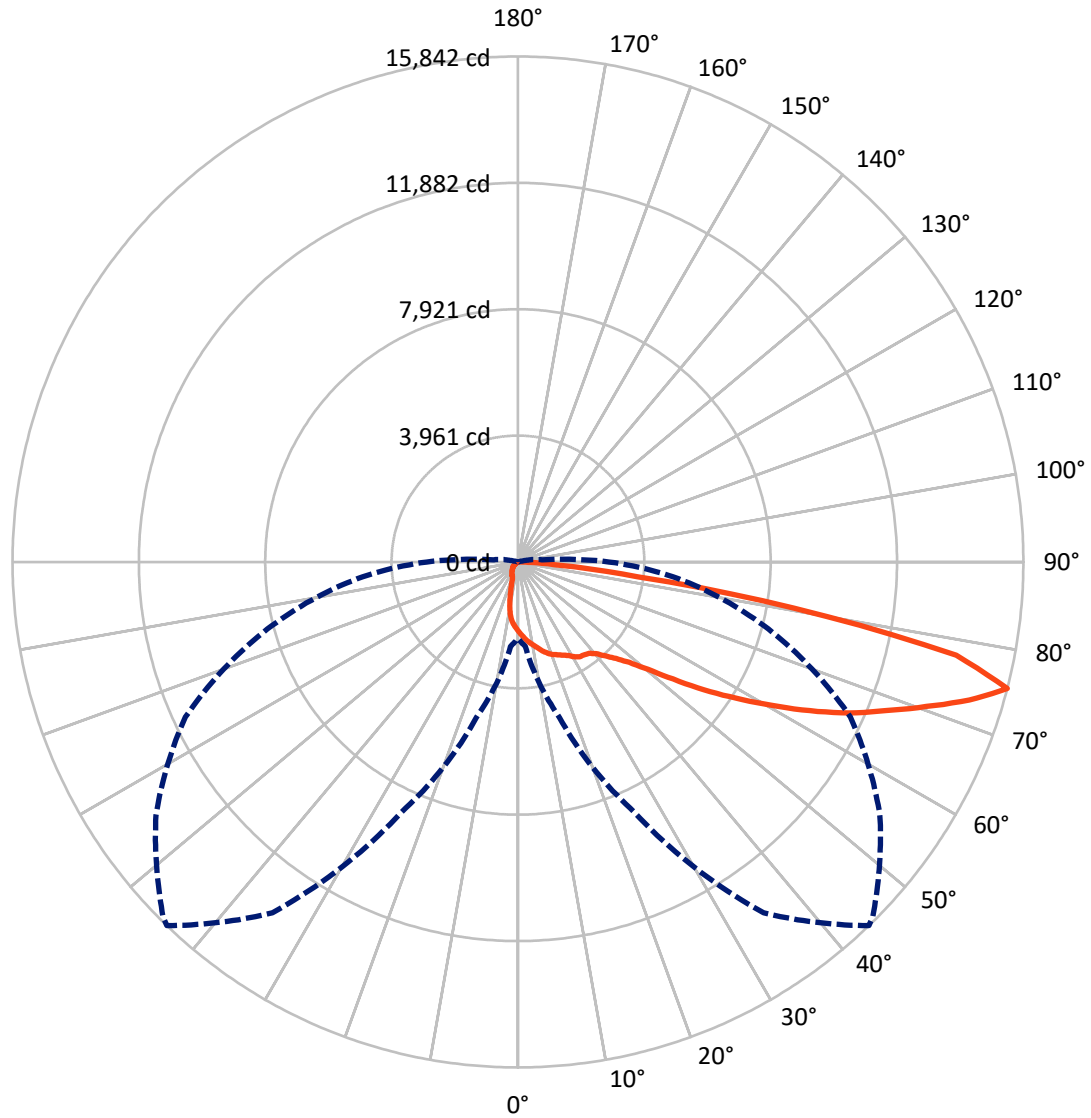
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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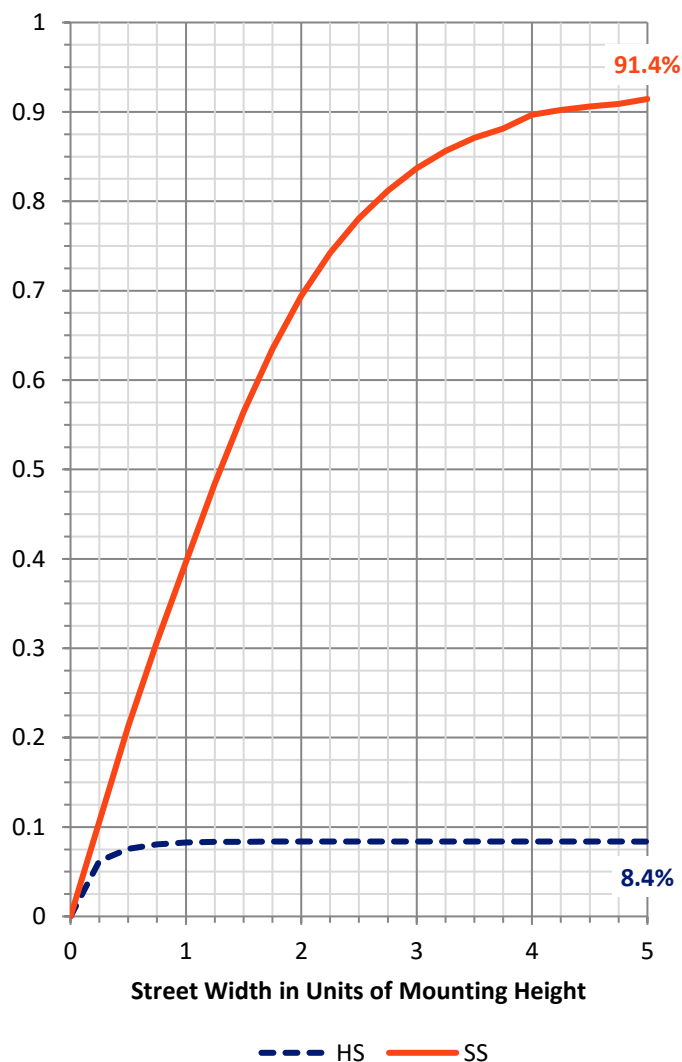
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1682.6	0.0	1682.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18269.4	0.0	18269.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	19952.0	0.0	19952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.0
10°-20°	573.9	2.9
20°-30°	947.1	4.7
30°-40°	1374.6	6.9
40°-50°	2234.5	11.2
50°-60°	3939.2	19.7
60°-70°	5661.4	28.4
70°-80°	4533.5	22.7
80°-90°	483.0	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°	19952.0	100.0
0°-180°	19952.0	100.0

Coefficient of Utilization



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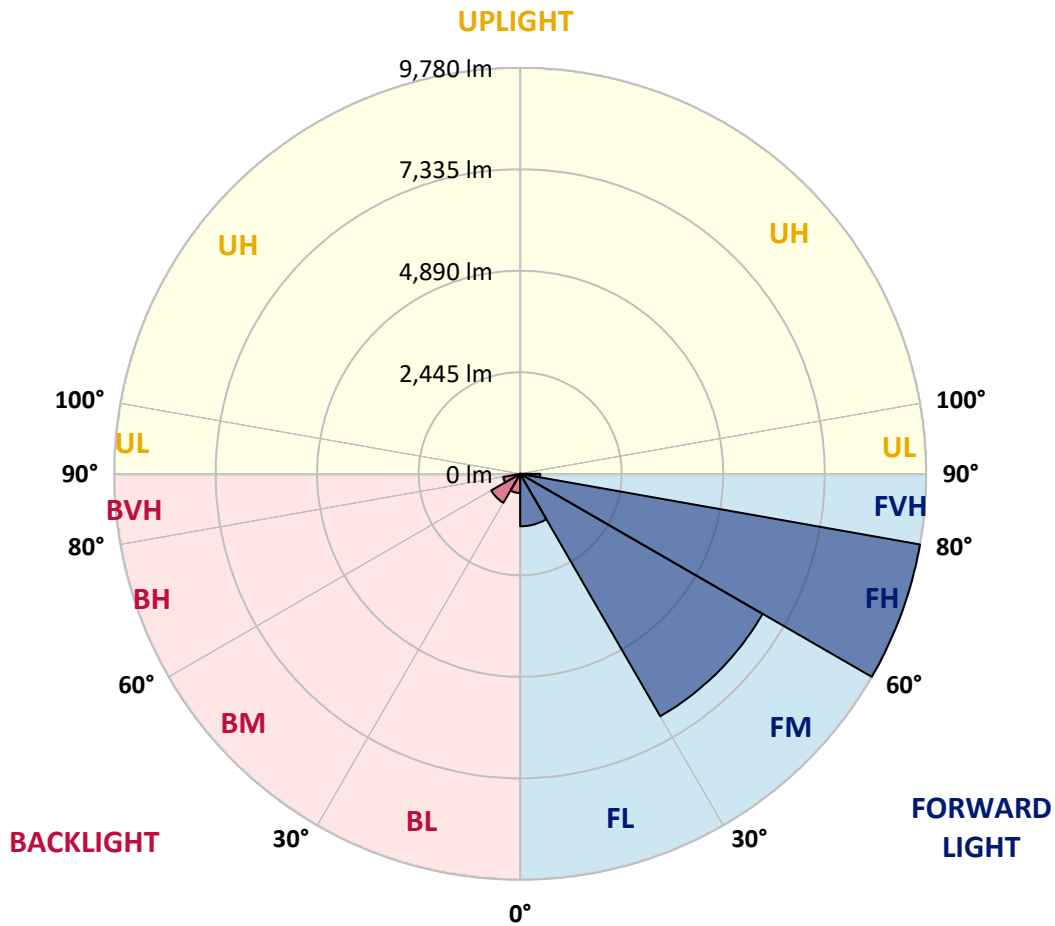
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.5	6.3			
FM (30°-60°)	6743.9	33.8			
FH (60°-80°)	9780.1	49.0			G4/12000
FVH (80°-90°)	481.8	2.4			G3/500
BL (0°-30°)	462.3	2.3	B1/500		
BM (30°-60°)	804.3	4.0	B1/1000		
BH (60°-80°)	414.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
2.5°	2366.8	2363.1	2352.1	2333.7	2315.3	2296.8	2293.2	2263.7	2230.6	2204.8	2182.7
5°	2576.6	2572.9	2554.5	2514.0	2473.5	2425.7	2422.0	2352.1	2289.5	2219.6	2160.7
7.5°	2793.8	2786.4	2753.3	2690.7	2620.8	2547.1	2539.8	2436.7	2344.7	2252.7	2168.0
10°	2963.1	2955.7	2907.9	2834.3	2738.5	2646.5	2635.5	2528.7	2436.7	2318.9	2204.8
12.5°	3128.7	3114.0	3051.4	2970.4	2852.7	2764.3	2753.3	2642.8	2532.4	2411.0	2271.1
15°	3283.3	3264.9	3206.0	3103.0	2977.8	2893.1	2885.8	2768.0	2653.9	2514.0	2359.4
17.5°	3390.1	3382.7	3312.8	3198.7	3077.2	3007.3	2999.9	2878.4	2764.3	2617.1	2451.4
20°	3445.3	3445.3	3379.0	3253.9	3143.4	3095.6	3084.5	2970.4	2860.0	2720.1	2547.1
22.5°	3456.3	3467.4	3415.8	3279.6	3198.7	3158.2	3150.8	3051.4	2944.7	2815.8	2653.9
25°	3478.4	3478.4	3452.6	3305.4	3246.5	3235.5	3231.8	3143.4	3047.7	2918.9	2760.6
27.5°	3504.2	3504.2	3485.8	3342.2	3320.1	3316.4	3312.8	3272.3	3195.0	3044.1	2885.8
30°	3570.4	3574.1	3559.4	3415.8	3401.1	3441.6	3449.0	3426.9	3331.2	3143.4	3014.6
32.5°	3736.1	3702.9	3662.4	3467.4	3493.1	3544.7	3548.3	3504.2	3401.1	3250.2	3169.2
35°	4152.0	3956.9	3772.9	3511.5	3522.6	3574.1	3581.5	3577.8	3515.2	3386.4	3345.9
37.5°	4538.5	4262.4	4001.1	3614.6	3577.8	3633.0	3647.7	3710.3	3662.4	3574.1	3585.1
40°	4763.0	4656.3	4472.2	3898.0	3688.2	3772.9	3787.6	3883.3	3864.9	3828.1	3898.0
42.5°	5455.0	5462.4	5263.6	4321.3	3890.7	4026.8	4045.3	4122.5	4148.3	4166.7	4336.0
45°	6257.4	6283.2	6235.4	5083.2	4273.5	4317.6	4343.4	4446.5	4542.2	4660.0	4969.1
47.5°	7221.8	7199.7	7023.1	6014.5	4939.7	4693.1	4711.5	4910.2	5075.9	5333.5	5775.2
50°	8075.8	8131.0	7796.0	6883.2	5878.3	5285.7	5267.3	5462.4	5760.5	6121.2	6677.1
52.5°	8937.1	8856.1	8403.4	7744.5	6989.9	6091.8	6036.6	6143.3	6562.9	6989.9	7560.5
55°	9165.3	9172.7	9018.1	8686.8	7917.5	7070.9	6978.9	6971.5	7494.2	7785.0	8488.0
57.5°	9614.4	9632.8	9669.6	9735.8	9371.4	8050.0	7954.3	7851.2	8359.2	8528.5	9419.3
60°	10070.8	10092.9	10317.4	10674.5	10431.5	9106.4	9003.4	8760.4	9043.8	9272.1	10398.4
62.5°	10011.9	10166.5	10818.0	11528.4	11499.0	10265.9	10137.1	9551.8	9732.2	9930.9	11296.5
65°	9040.2	9205.8	10670.8	11764.0	12570.1	11410.6	11200.8	10368.9	10380.0	10619.2	12161.5
67.5°	8171.5	8351.8	9750.6	11664.6	13276.8	12437.6	12220.4	11189.8	11016.8	11414.3	12625.3
70°	7670.9	7851.2	9018.1	11355.4	13475.6	13575.0	13387.2	12128.4	11775.0	12139.4	12106.3
72.5°	6003.5	6286.9	8083.1	10766.5	13689.1	14793.3	14646.1	13317.3	12419.2	11381.2	9216.8
75°	2392.6	2653.9	5046.4	8664.7	13420.4	15842.4	15728.3	13851.0	11495.3	8127.3	4718.8
77.5°	721.4	773.0	1402.4	4284.5	9838.9	14046.1	14009.3	11646.2	8134.7	3772.9	1288.3
80°	239.3	265.0	430.7	1181.6	4490.6	8775.1	8940.8	7420.6	3695.6	865.0	261.3
82.5°	99.4	110.4	217.2	474.8	1590.1	3780.2	3725.0	3323.8	1288.3	537.4	95.7
85°	25.8	33.1	99.4	272.4	581.6	1303.0	1369.3	1115.3	728.8	445.4	29.4
87.5°	0.0	0.0	47.9	110.4	261.3	393.9	412.3	338.6	412.3	335.0	14.7
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°	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
2.5°	2164.3	2145.9	2112.8	2090.7	2061.3	2053.9	2039.2	2020.8	2017.1	1998.7	2002.4
5°	2127.5	2098.1	2039.2	1998.7	1950.8	1936.1	1910.4	1892.0	1877.2	1851.5	1855.1
7.5°	2120.2	2076.0	1995.0	1917.7	1840.4	1785.2	1707.9	1645.3	1593.8	1538.6	1549.6
10°	2145.9	2090.7	1976.6	1869.9	1730.0	1553.3	1350.9	1218.4	1152.1	1085.8	1093.2
12.5°	2197.5	2131.2	1984.0	1822.0	1538.6	1236.8	957.0	776.7	728.8	699.4	703.0
15°	2274.8	2193.8	2006.1	1730.0	1280.9	894.4	636.8	559.5	577.9	588.9	588.9
17.5°	2355.7	2263.7	2024.5	1564.4	990.1	625.7	519.0	511.6	537.4	563.2	563.2
20°	2455.1	2337.3	2028.1	1354.6	714.1	508.0	489.6	489.6	508.0	537.4	537.4
22.5°	2550.8	2418.3	1995.0	1115.3	544.8	471.1	471.1	471.1	482.2	511.6	515.3
25°	2664.9	2517.7	1925.1	861.3	467.5	449.1	449.1	452.7	460.1	485.9	489.6
27.5°	2786.4	2620.8	1807.3	629.4	427.0	423.3	427.0	430.7	434.3	460.1	467.5
30°	2926.3	2734.9	1656.4	471.1	390.2	390.2	401.2	408.6	408.6	430.7	438.0
32.5°	3088.2	2885.8	1476.0	390.2	353.4	349.7	368.1	379.1	379.1	397.5	404.9
35°	3290.7	3040.4	1258.8	346.0	323.9	316.6	323.9	342.3	349.7	364.4	368.1
37.5°	3559.4	3224.4	1027.0	320.2	301.8	287.1	287.1	290.8	305.5	320.2	323.9
40°	3901.7	3426.9	798.7	301.8	279.7	265.0	254.0	250.3	246.6	257.7	265.0
42.5°	4332.4	3655.1	596.3	283.4	261.3	239.3	224.5	209.8	191.4	187.7	191.4
45°	4884.5	3934.8	441.7	268.7	250.3	217.2	191.4	165.6	132.5	121.5	125.1
47.5°	5536.0	4225.6	346.0	254.0	242.9	191.4	158.3	114.1	81.0	73.6	77.3
50°	6228.0	4505.4	294.5	235.6	228.2	165.6	114.1	69.9	47.9	47.9	51.5
52.5°	6816.9	4663.6	268.7	220.9	206.1	136.2	73.6	40.5	29.4	29.4	33.1
55°	7387.5	4748.3	250.3	206.1	176.7	95.7	40.5	25.8	18.4	18.4	18.4
57.5°	7976.4	4785.1	228.2	187.7	139.9	58.9	22.1	14.7	11.0	11.0	11.0
60°	8499.1	4715.2	195.1	154.6	92.0	29.4	11.0	11.0	7.4	3.7	3.7
62.5°	8937.1	4582.7	136.2	110.4	55.2	14.7	7.4	3.7	0.0	0.0	0.0
65°	9205.8	4369.2	88.3	73.6	33.1	11.0	3.7	0.0	0.0	0.0	0.0
67.5°	9128.5	3968.0	55.2	47.9	14.7	7.4	3.7	0.0	0.0	0.0	0.0
70°	8237.7	3253.9	40.5	29.4	11.0	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	5937.2	2201.1	29.4	18.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2856.3	784.0	18.4	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	699.4	173.0	11.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.6	33.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.5	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	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)