

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: P400287

Luminaire Tested: **ARCH-L-PA3-260-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400287
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-PA3-260-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA 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: 22552 lumens
Efficiency: N/A
Efficacy: 86.4 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

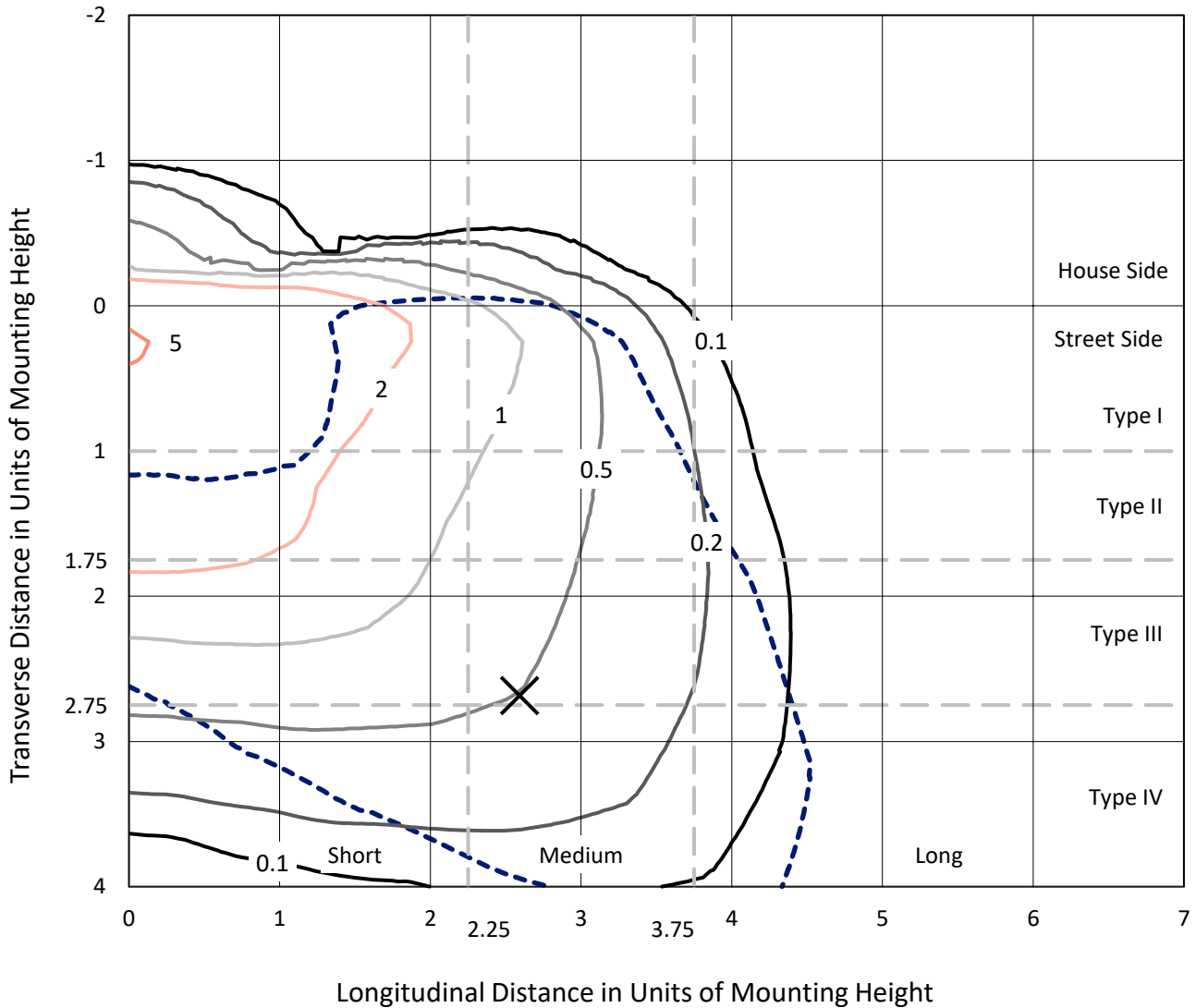
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

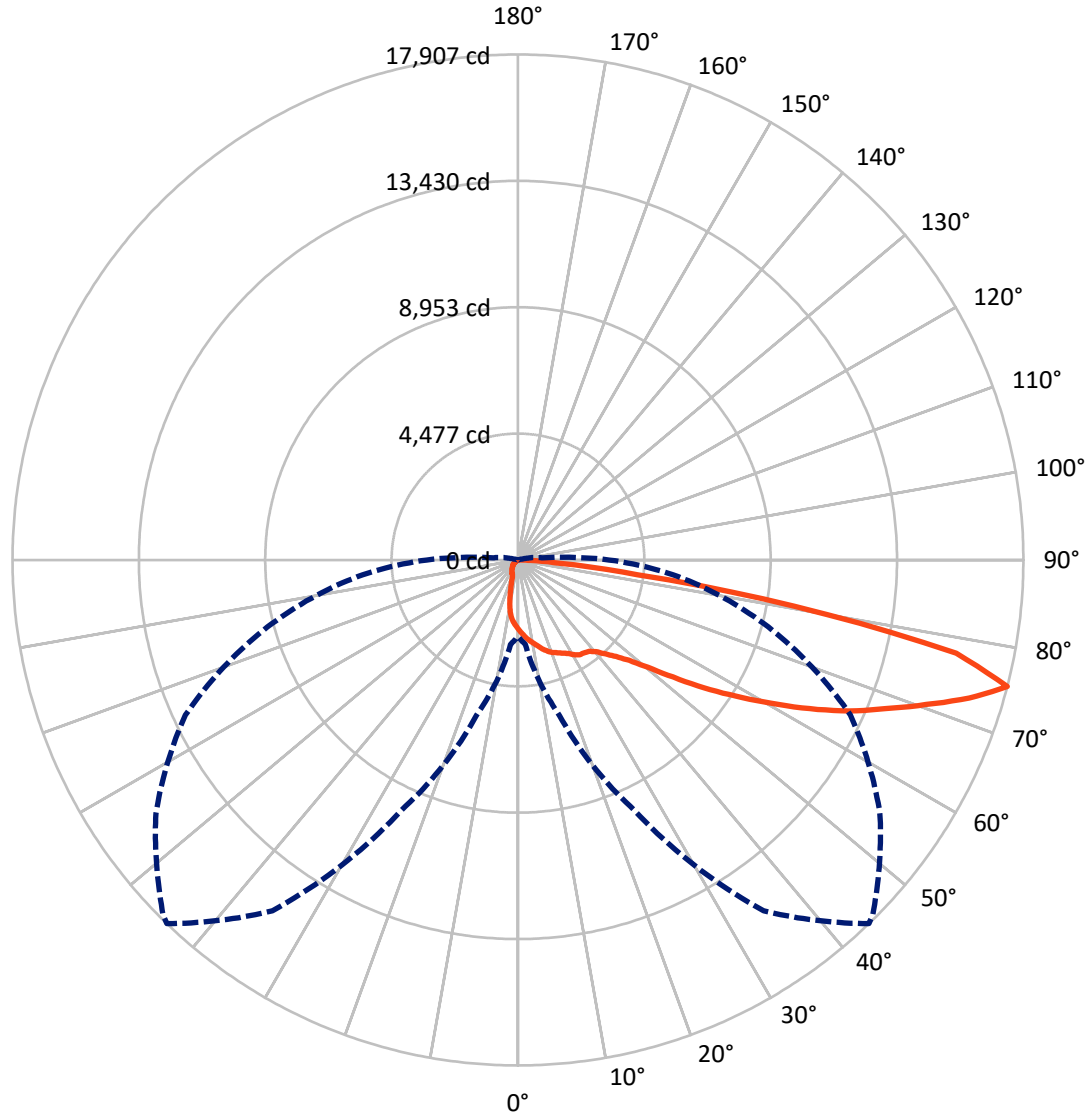
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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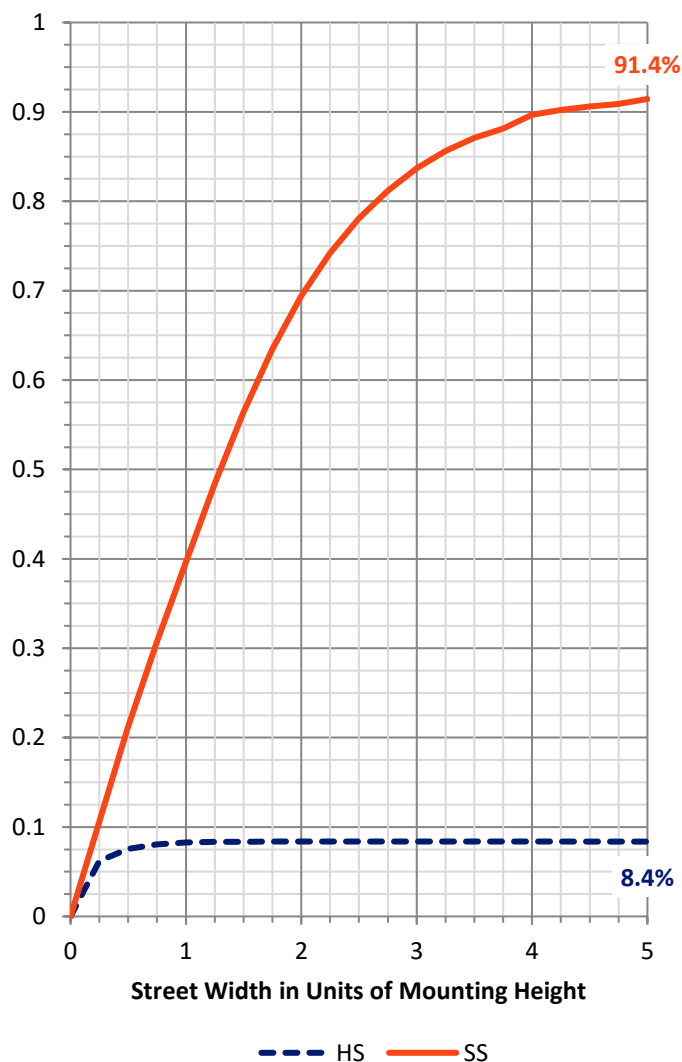
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.9	0.0	1901.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20650.1	0.0	20650.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	22552.0	0.0	22552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	1.0
10°-20°	648.7	2.9
20°-30°	1070.5	4.7
30°-40°	1553.7	6.9
40°-50°	2525.7	11.2
50°-60°	4452.5	19.7
60°-70°	6399.2	28.4
70°-80°	5124.3	22.7
80°-90°	546.0	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°	22552.0	100.0
0°-180°	22552.0	100.0

Coefficient of Utilization



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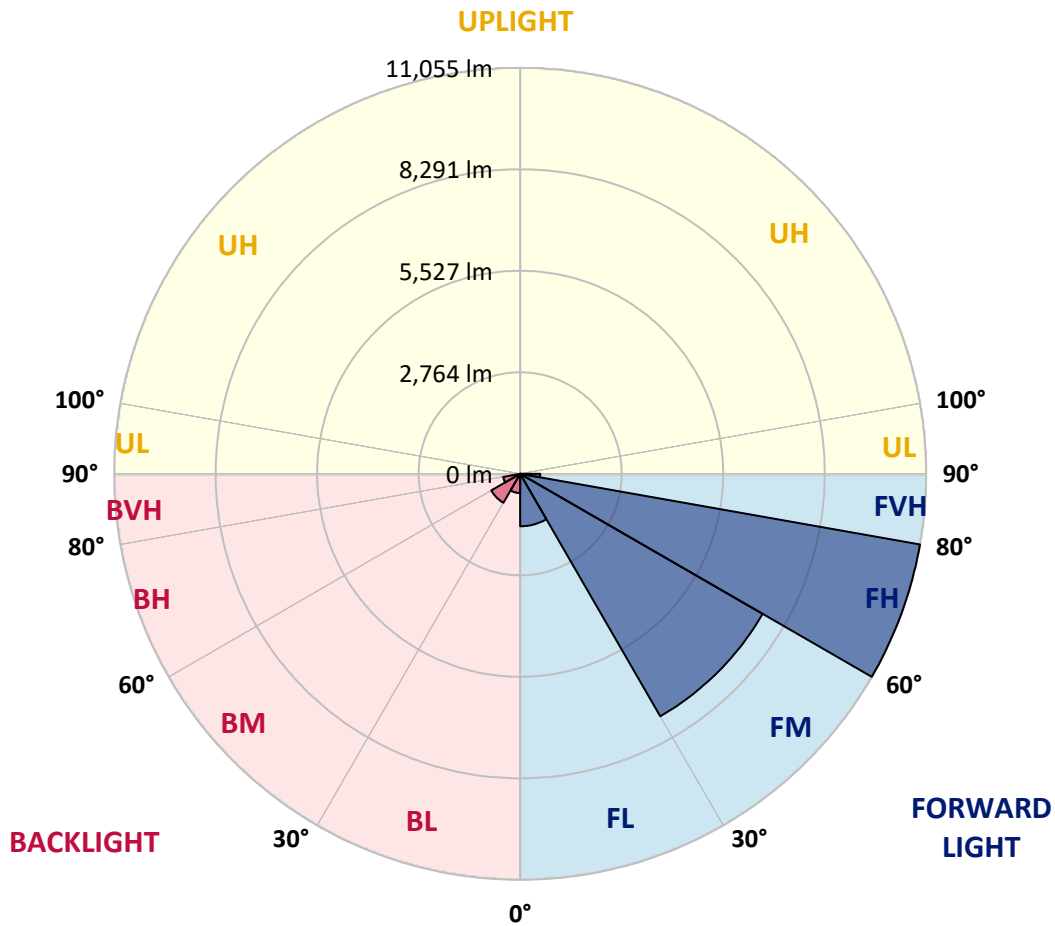
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.2	6.3			
FM (30°-60°)	7622.8	33.8			
FH (60°-80°)	11054.6	49.0			G4/12000
FVH (80°-90°)	544.6	2.4			G4/750
BL (0°-30°)	522.5	2.3	B2/1000		
BM (30°-60°)	909.1	4.0	B1/1000		
BH (60°-80°)	468.9	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7
2.5°	2675.2	2671.0	2658.6	2637.8	2617.0	2596.2	2592.0	2558.7	2521.3	2492.1	2467.2
5°	2912.4	2908.2	2887.4	2841.6	2795.9	2741.8	2737.6	2658.6	2587.8	2508.8	2442.2
7.5°	3157.8	3149.5	3112.1	3041.3	2962.3	2879.1	2870.8	2754.3	2650.2	2546.2	2450.5
10°	3349.2	3340.9	3286.8	3203.6	3095.4	2991.4	2978.9	2858.3	2754.3	2621.1	2492.1
12.5°	3536.4	3519.8	3449.1	3357.5	3224.4	3124.5	3112.1	2987.2	2862.4	2725.1	2567.0
15°	3711.2	3690.4	3623.8	3507.3	3365.9	3270.2	3261.8	3128.7	2999.7	2841.6	2666.9
17.5°	3831.8	3823.5	3744.5	3615.5	3478.2	3399.1	3390.8	3253.5	3124.5	2958.1	2770.9
20°	3894.2	3894.2	3819.3	3677.9	3553.1	3499.0	3486.5	3357.5	3232.7	3074.6	2879.1
22.5°	3906.7	3919.2	3861.0	3707.0	3615.5	3569.7	3561.4	3449.1	3328.4	3182.8	2999.7
25°	3931.7	3931.7	3902.6	3736.1	3669.6	3657.1	3652.9	3553.1	3444.9	3299.3	3120.4
27.5°	3960.8	3960.8	3940.0	3777.7	3752.8	3748.6	3744.5	3698.7	3611.3	3440.7	3261.8
30°	4035.7	4039.9	4023.2	3861.0	3844.3	3890.1	3898.4	3873.4	3765.3	3553.1	3407.5
32.5°	4222.9	4185.5	4139.7	3919.2	3948.3	4006.6	4010.7	3960.8	3844.3	3673.7	3582.2
35°	4693.1	4472.5	4264.5	3969.1	3981.6	4039.9	4048.2	4044.0	3973.3	3827.7	3781.9
37.5°	5129.9	4817.9	4522.5	4085.6	4044.0	4106.4	4123.1	4193.8	4139.7	4039.9	4052.3
40°	5383.7	5263.0	5055.0	4406.0	4168.8	4264.5	4281.2	4389.3	4368.5	4326.9	4406.0
42.5°	6165.9	6174.2	5949.5	4884.4	4397.7	4551.6	4572.4	4659.8	4688.9	4709.7	4901.1
45°	7072.9	7102.0	7047.9	5745.7	4830.3	4880.3	4909.4	5025.9	5134.1	5267.2	5616.7
47.5°	8162.9	8138.0	7938.2	6798.3	5583.4	5304.6	5325.5	5550.1	5737.3	6028.6	6527.8
50°	9128.2	9190.6	8812.0	7780.1	6644.3	5974.5	5953.7	6174.2	6511.2	6918.9	7547.2
52.5°	10101.7	10010.2	9498.4	8753.7	7900.8	6885.6	6823.2	6943.9	7418.2	7900.8	8545.7
55°	10359.7	10368.0	10193.2	9818.8	8949.3	7992.3	7888.3	7880.0	8470.8	8799.5	9594.1
57.5°	10867.2	10888.0	10929.7	11004.5	10592.7	9099.0	8990.9	8874.4	9448.5	9639.9	10646.7
60°	11383.1	11408.1	11661.9	12065.5	11790.9	10293.1	10176.6	9902.0	10222.4	10480.3	11753.4
62.5°	11316.6	11491.3	12227.7	13030.7	12997.4	11603.7	11458.0	10796.5	11000.4	11225.1	12768.6
65°	10218.2	10405.4	12061.3	13297.0	14208.1	12897.6	12660.4	11720.2	11732.6	12003.1	13746.3
67.5°	9236.3	9440.2	11021.2	13184.6	15007.0	14058.4	13812.9	12647.9	12452.4	12901.7	14270.5
70°	8670.5	8874.4	10193.2	12835.2	15231.6	15344.0	15131.8	13708.9	13309.5	13721.4	13683.9
72.5°	6785.8	7106.1	9136.5	12169.5	15472.9	16721.1	16554.7	15052.7	14037.6	12864.3	10417.9
75°	2704.3	2999.7	5704.1	9793.8	15169.2	17906.8	17777.9	15656.0	12993.3	9186.4	5333.8
77.5°	815.5	873.7	1585.2	4842.8	11121.0	15876.5	15834.9	13163.8	9194.7	4264.5	1456.2
80°	270.4	299.6	486.8	1335.5	5075.8	9918.7	10105.9	8387.6	4177.1	977.7	295.4
82.5°	112.3	124.8	245.5	536.7	1797.3	4272.8	4210.4	3756.9	1456.2	607.4	108.2
85°	29.1	37.4	112.3	307.9	657.4	1472.8	1547.7	1260.6	823.8	503.4	33.3
87.5°	0.0	0.0	54.1	124.8	295.4	445.2	466.0	382.8	466.0	378.6	16.6
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°	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7	2454.7
2.5°	2446.4	2425.6	2388.1	2363.2	2329.9	2321.6	2304.9	2284.1	2280.0	2259.2	2263.3
5°	2404.8	2371.5	2304.9	2259.2	2205.1	2188.4	2159.3	2138.5	2121.9	2092.7	2096.9
7.5°	2396.5	2346.5	2255.0	2167.6	2080.3	2017.8	1930.5	1859.7	1801.5	1739.1	1751.6
10°	2425.6	2363.2	2234.2	2113.5	1955.4	1755.7	1526.9	1377.1	1302.2	1227.3	1235.7
12.5°	2483.8	2408.9	2242.5	2059.5	1739.1	1397.9	1081.7	877.9	823.8	790.5	794.7
15°	2571.2	2479.7	2267.5	1955.4	1447.9	1011.0	719.8	632.4	653.2	665.7	665.7
17.5°	2662.7	2558.7	2288.3	1768.2	1119.2	707.3	586.6	578.3	607.4	636.6	636.6
20°	2775.1	2641.9	2292.4	1531.1	807.1	574.2	553.3	553.3	574.2	607.4	607.4
22.5°	2883.2	2733.5	2255.0	1260.6	615.8	532.5	532.5	532.5	545.0	578.3	582.5
25°	3012.2	2845.8	2175.9	973.6	528.4	507.6	507.6	511.7	520.1	549.2	553.3
27.5°	3149.5	2962.3	2042.8	711.4	482.6	478.5	482.6	486.8	490.9	520.1	528.4
30°	3307.6	3091.3	1872.2	532.5	441.0	441.0	453.5	461.8	461.8	486.8	495.1
32.5°	3490.7	3261.8	1668.4	441.0	399.4	395.2	416.1	428.5	428.5	449.3	457.7
35°	3719.5	3436.6	1422.9	391.1	366.1	357.8	366.1	386.9	395.2	411.9	416.1
37.5°	4023.2	3644.6	1160.8	362.0	341.2	324.5	324.5	328.7	345.3	362.0	366.1
40°	4410.1	3873.4	902.8	341.2	316.2	299.6	287.1	282.9	278.8	291.2	299.6
42.5°	4896.9	4131.4	674.0	320.4	295.4	270.4	253.8	237.1	216.3	212.2	216.3
45°	5521.0	4447.6	499.3	303.7	282.9	245.5	216.3	187.2	149.8	137.3	141.5
47.5°	6257.4	4776.3	391.1	287.1	274.6	216.3	178.9	129.0	91.5	83.2	87.4
50°	7039.6	5092.5	332.8	266.3	258.0	187.2	129.0	79.0	54.1	54.1	58.2
52.5°	7705.3	5271.4	303.7	249.6	233.0	153.9	83.2	45.8	33.3	33.3	37.4
55°	8350.1	5367.1	282.9	233.0	199.7	108.2	45.8	29.1	20.8	20.8	20.8
57.5°	9015.8	5408.7	258.0	212.2	158.1	66.6	25.0	16.6	12.5	12.5	12.5
60°	9606.6	5329.6	220.5	174.7	104.0	33.3	12.5	12.5	8.3	4.2	4.2
62.5°	10101.7	5179.8	153.9	124.8	62.4	16.6	8.3	4.2	0.0	0.0	0.0
65°	10405.4	4938.5	99.9	83.2	37.4	12.5	4.2	0.0	0.0	0.0	0.0
67.5°	10318.1	4485.0	62.4	54.1	16.6	8.3	4.2	0.0	0.0	0.0	0.0
70°	9311.2	3677.9	45.8	33.3	12.5	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	6710.9	2488.0	33.3	20.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	3228.6	886.2	20.8	16.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	790.5	195.5	12.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	174.7	37.4	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.2	16.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	4.2	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)