

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: P400071

Luminaire Tested: **ARCH-L-PA3-230-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400071
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-PA3-230-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA 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: 20831 lumens
Efficiency: N/A
Efficacy: 91.0 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

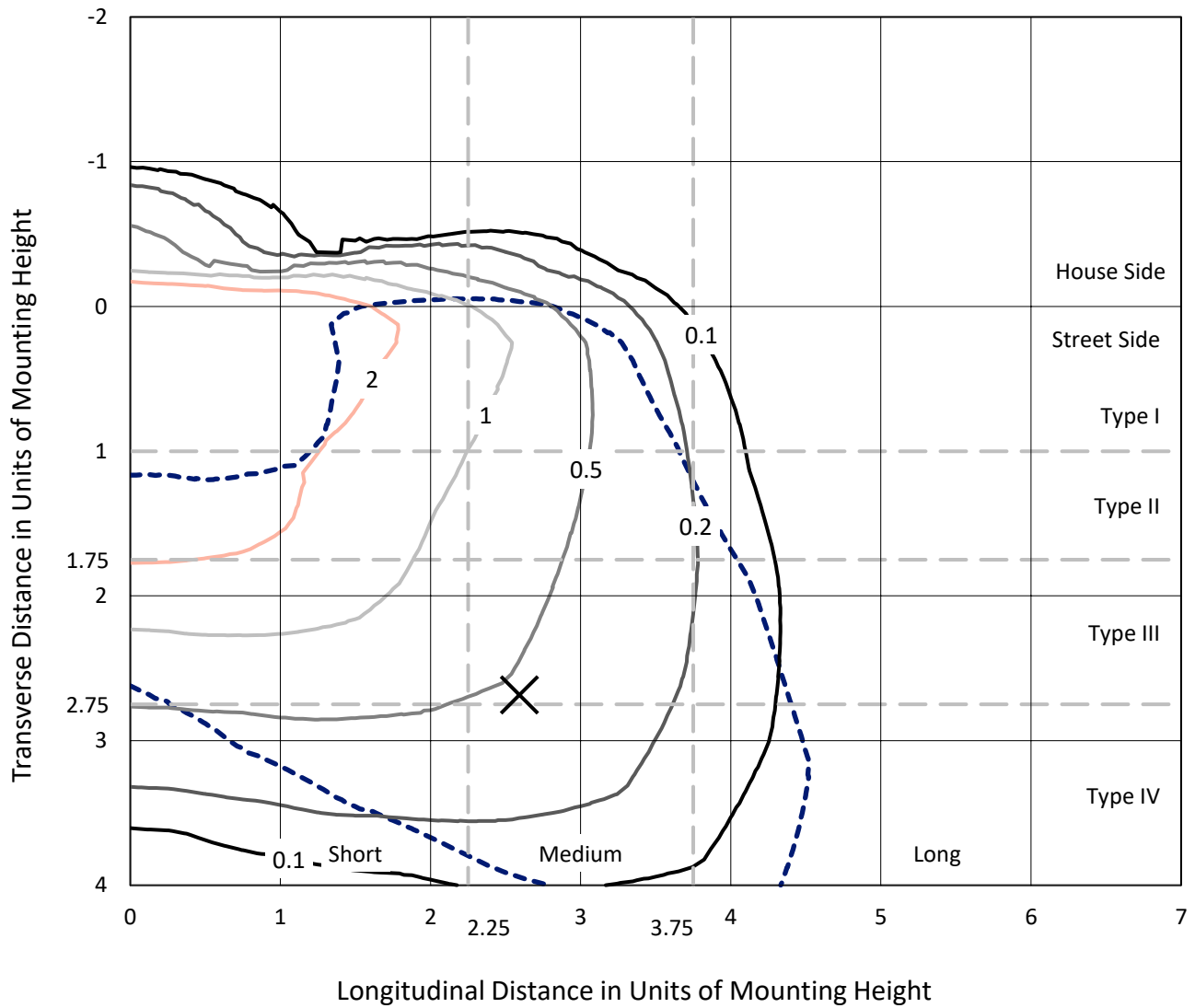
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

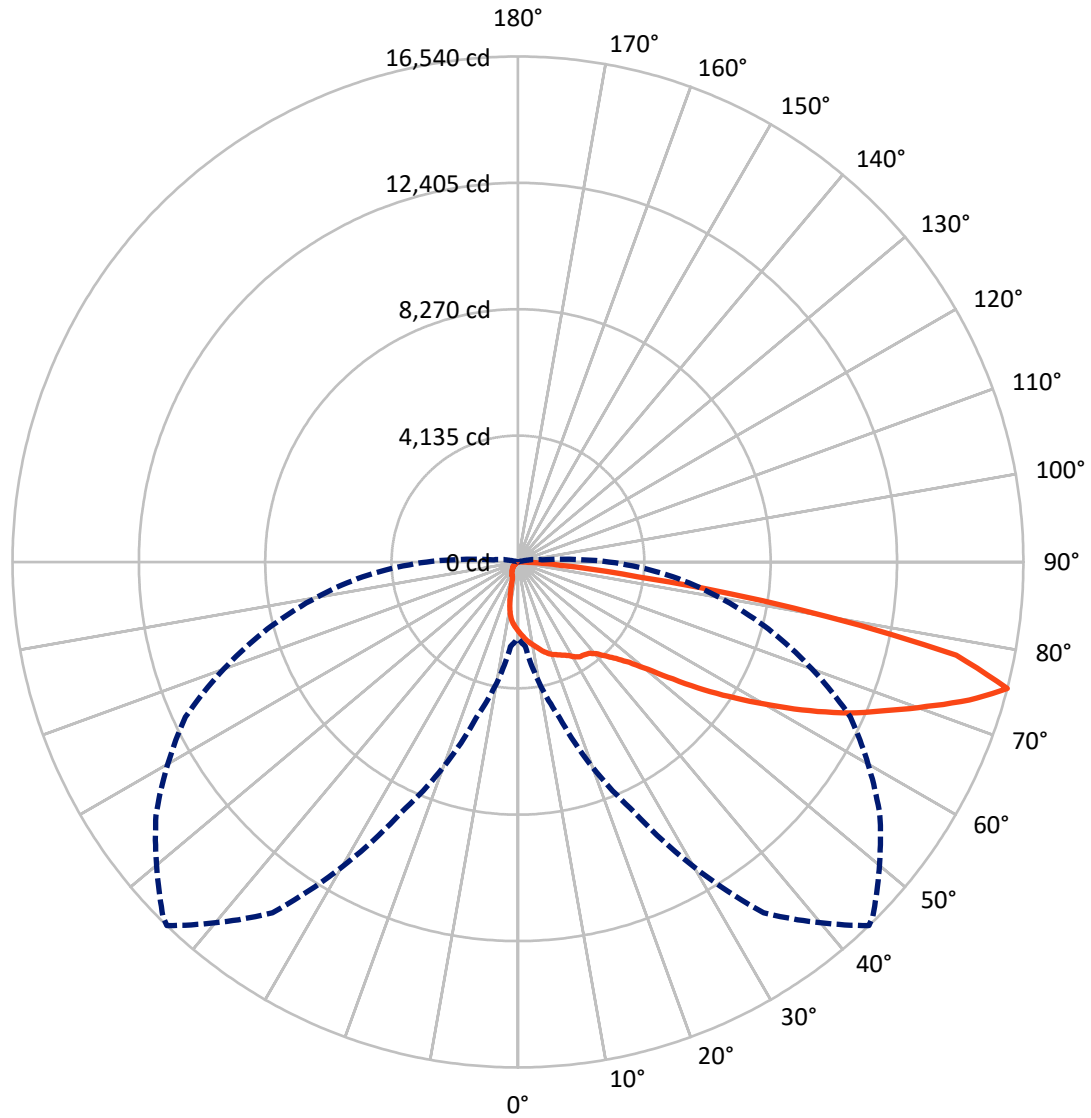
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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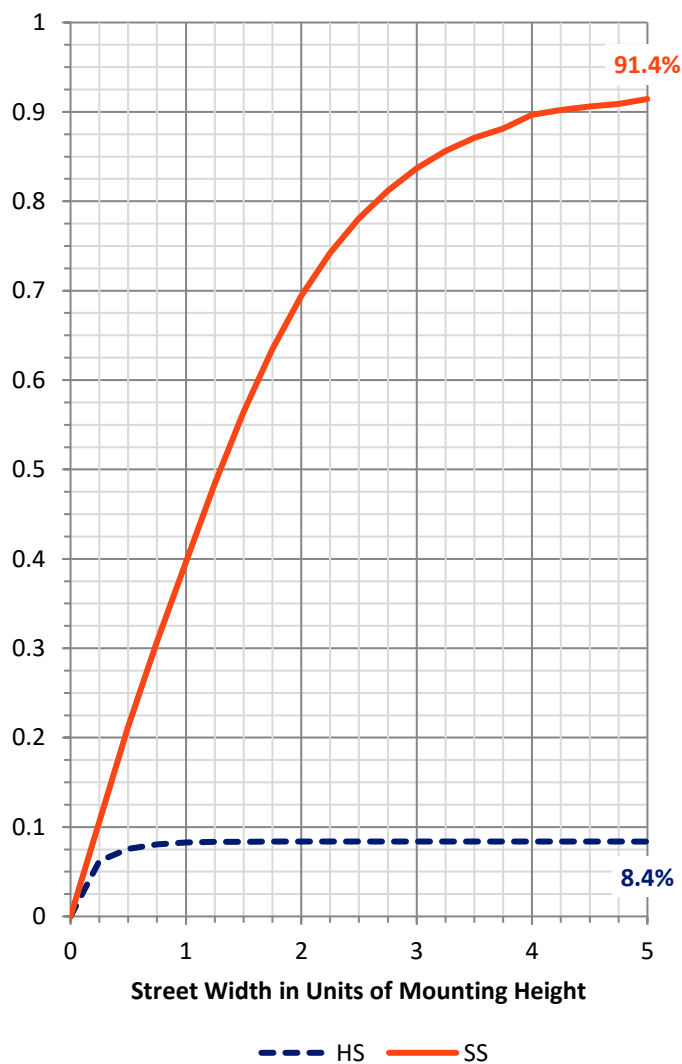
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.7	0.0	1756.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19074.3	0.0	19074.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	20831.0	0.0	20831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	1.0
10°-20°	599.2	2.9
20°-30°	988.8	4.7
30°-40°	1435.2	6.9
40°-50°	2332.9	11.2
50°-60°	4112.7	19.7
60°-70°	5910.8	28.4
70°-80°	4733.2	22.7
80°-90°	504.3	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°	20831.0	100.0
0°-180°	20831.0	100.0

Coefficient of Utilization



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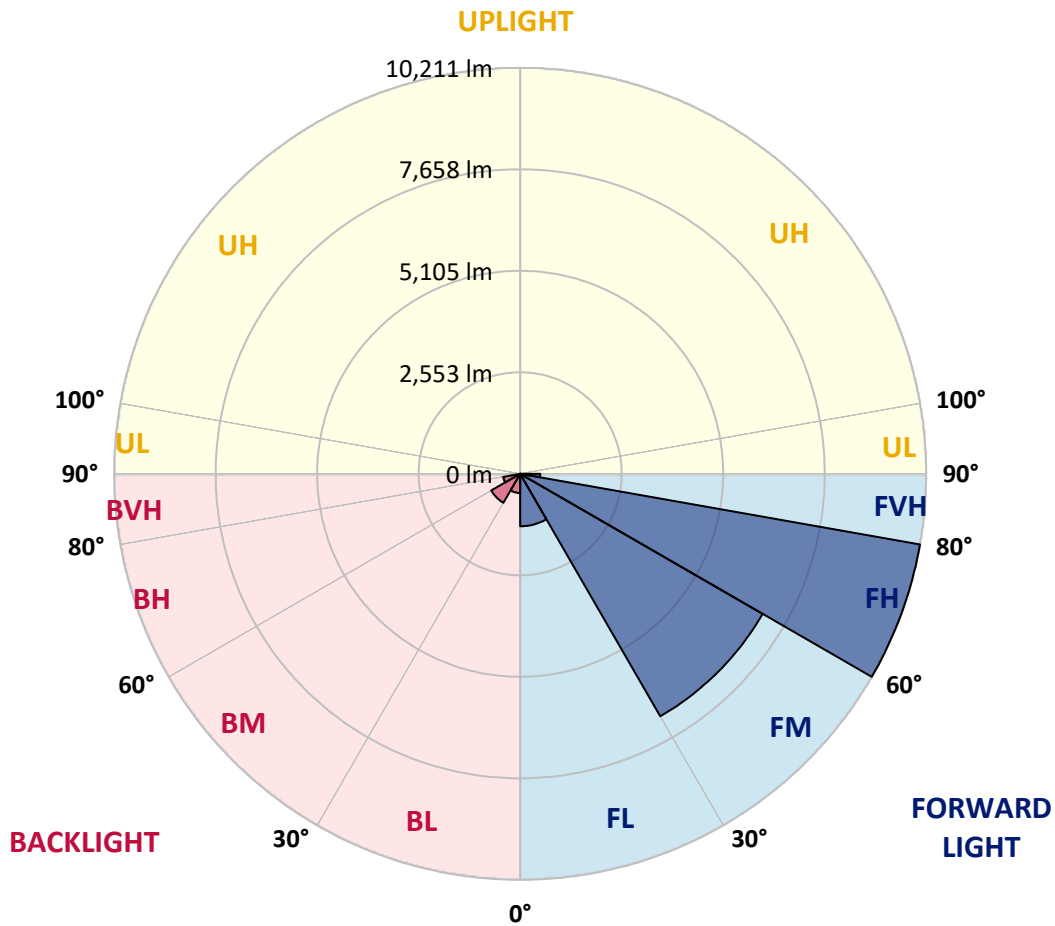
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.2	6.3			
FM (30°-60°)	7041.1	33.8			
FH (60°-80°)	10211.0	49.0			G4/12000
FVH (80°-90°)	503.0	2.4			G4/750
BL (0°-30°)	482.6	2.3	B1/500		
BM (30°-60°)	839.7	4.0	B1/1000		
BH (60°-80°)	433.1	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°	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4
2.5°	2471.1	2467.2	2455.7	2436.5	2417.3	2398.0	2394.2	2363.5	2328.9	2302.0	2278.9
5°	2690.1	2686.3	2667.0	2624.8	2582.5	2532.5	2528.7	2455.7	2390.4	2317.3	2255.8
7.5°	2916.8	2909.2	2874.6	2809.2	2736.2	2659.4	2651.7	2544.1	2448.0	2351.9	2263.5
10°	3093.6	3085.9	3036.0	2959.1	2859.2	2763.1	2751.6	2640.1	2544.1	2421.1	2302.0
12.5°	3266.6	3251.2	3185.9	3101.3	2978.3	2886.1	2874.6	2759.3	2644.0	2517.2	2371.1
15°	3428.0	3408.7	3347.3	3239.7	3109.0	3020.6	3012.9	2889.9	2770.8	2624.8	2463.4
17.5°	3539.4	3531.7	3458.7	3339.6	3212.8	3139.7	3132.1	3005.2	2886.1	2732.4	2559.4
20°	3597.1	3597.1	3527.9	3397.2	3281.9	3232.0	3220.4	3101.3	2986.0	2840.0	2659.4
22.5°	3608.6	3620.1	3566.3	3424.1	3339.6	3297.3	3289.6	3185.9	3074.4	2939.9	2770.8
25°	3631.6	3631.6	3604.7	3451.0	3389.5	3378.0	3374.2	3281.9	3182.0	3047.5	2882.3
27.5°	3658.5	3658.5	3639.3	3489.5	3466.4	3462.6	3458.7	3416.4	3335.7	3178.2	3012.9
30°	3727.7	3731.6	3716.2	3566.3	3550.9	3593.2	3600.9	3577.8	3477.9	3281.9	3147.4
32.5°	3900.7	3866.1	3823.8	3620.1	3647.0	3700.8	3704.7	3658.5	3550.9	3393.4	3308.8
35°	4334.9	4131.2	3939.1	3666.2	3677.8	3731.6	3739.2	3735.4	3670.1	3535.6	3493.3
37.5°	4738.4	4450.2	4177.4	3773.8	3735.4	3793.0	3808.4	3873.8	3823.8	3731.6	3743.1
40°	4972.9	4861.4	4669.3	4069.7	3850.7	3939.1	3954.5	4054.4	4035.2	3996.7	4069.7
42.5°	5695.3	5703.0	5495.5	4511.7	4062.1	4204.3	4223.5	4304.2	4331.1	4350.3	4527.1
45°	6533.1	6560.0	6510.1	5307.2	4461.7	4507.8	4534.8	4642.4	4742.3	4865.2	5188.1
47.5°	7540.0	7516.9	7332.5	6279.5	5157.3	4899.8	4919.1	5126.6	5299.5	5568.5	6029.7
50°	8431.6	8489.2	8139.5	7186.4	6137.3	5518.6	5499.3	5703.0	6014.3	6390.9	6971.2
52.5°	9330.8	9246.3	8773.6	8085.7	7297.9	6360.2	6302.5	6414.0	6852.1	7297.9	7893.5
55°	9569.1	9576.8	9415.4	9069.5	8266.3	7382.4	7286.3	7278.7	7824.4	8128.0	8862.0
57.5°	10037.9	10057.2	10095.6	10164.8	9784.3	8404.7	8304.7	8197.1	8727.5	8904.3	9834.3
60°	10514.5	10537.5	10772.0	11144.7	10891.1	9507.6	9400.0	9146.4	9442.3	9680.5	10856.5
62.5°	10453.0	10614.4	11294.6	12036.3	12005.6	10718.2	10583.6	9972.6	10160.9	10368.4	11794.2
65°	9438.4	9611.4	11140.9	12282.3	13123.9	11913.3	11694.3	10825.8	10837.3	11087.1	12697.3
67.5°	8531.5	8719.8	10180.1	12178.5	13861.7	12985.5	12758.8	11682.7	11502.1	11917.2	13181.5
70°	8008.8	8197.1	9415.4	11855.7	14069.3	14173.0	13977.0	12662.7	12293.8	12674.2	12639.7
72.5°	6267.9	6563.9	8439.2	11240.8	14292.2	15445.1	15291.3	13904.0	12966.3	11882.6	9622.9
75°	2498.0	2770.8	5268.8	9046.4	14011.6	16540.3	16421.2	14461.2	12001.7	8485.4	4926.7
77.5°	753.2	807.0	1464.2	4473.3	10272.4	14664.9	14626.5	12159.3	8493.1	3939.1	1345.1
80°	249.8	276.7	449.6	1233.6	4688.5	9161.7	9334.7	7747.5	3858.4	903.1	272.9
82.5°	103.8	115.3	226.7	495.7	1660.2	3946.8	3889.1	3470.2	1345.1	561.1	99.9
85°	26.9	34.6	103.8	284.4	607.2	1360.4	1429.6	1164.4	760.9	465.0	30.7
87.5°	0.0	0.0	50.0	115.3	272.9	411.2	430.4	353.6	430.4	349.7	15.4
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°	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4	2267.4
2.5°	2259.7	2240.5	2205.9	2182.8	2152.1	2144.4	2129.0	2109.8	2106.0	2086.8	2090.6
5°	2221.3	2190.5	2129.0	2086.8	2036.8	2021.4	1994.5	1975.3	1959.9	1933.0	1936.9
7.5°	2213.6	2167.5	2082.9	2002.2	1921.5	1863.9	1783.2	1717.8	1664.0	1606.4	1617.9
10°	2240.5	2182.8	2063.7	1952.2	1806.2	1621.7	1410.4	1272.0	1202.9	1133.7	1141.4
12.5°	2294.3	2225.1	2071.4	1902.3	1606.4	1291.3	999.2	810.9	760.9	730.2	734.0
15°	2375.0	2290.4	2094.4	1806.2	1337.4	933.9	664.8	584.1	603.4	614.9	614.9
17.5°	2459.5	2363.5	2113.7	1633.3	1033.8	653.3	541.9	534.2	561.1	588.0	588.0
20°	2563.3	2440.3	2117.5	1414.2	745.5	530.3	511.1	511.1	530.3	561.1	561.1
22.5°	2663.2	2524.9	2082.9	1164.4	568.8	491.9	491.9	491.9	503.4	534.2	538.0
25°	2782.3	2628.6	2009.9	899.3	488.1	468.8	468.8	472.7	480.4	507.3	511.1
27.5°	2909.2	2736.2	1886.9	657.2	445.8	441.9	445.8	449.6	453.5	480.4	488.1
30°	3055.2	2855.4	1729.4	491.9	407.4	407.4	418.9	426.6	426.6	449.6	457.3
32.5°	3224.3	3012.9	1541.0	407.4	368.9	365.1	384.3	395.8	395.8	415.0	422.7
35°	3435.7	3174.3	1314.3	361.2	338.2	330.5	338.2	357.4	365.1	380.5	384.3
37.5°	3716.2	3366.5	1072.2	334.3	315.1	299.8	299.8	303.6	319.0	334.3	338.2
40°	4073.6	3577.8	833.9	315.1	292.1	276.7	265.2	261.3	257.5	269.0	276.7
42.5°	4523.2	3816.1	622.6	295.9	272.9	249.8	234.4	219.1	199.8	196.0	199.8
45°	5099.7	4108.2	461.2	280.5	261.3	226.7	199.8	172.9	138.3	126.8	130.7
47.5°	5779.9	4411.8	361.2	265.2	253.6	199.8	165.2	119.1	84.5	76.9	80.7
50°	6502.4	4703.8	307.4	246.0	238.3	172.9	119.1	73.0	50.0	50.0	53.8
52.5°	7117.3	4869.1	280.5	230.6	215.2	142.2	76.9	42.3	30.7	30.7	34.6
55°	7712.9	4957.5	261.3	215.2	184.5	99.9	42.3	26.9	19.2	19.2	19.2
57.5°	8327.8	4995.9	238.3	196.0	146.0	61.5	23.1	15.4	11.5	11.5	11.5
60°	8873.5	4922.9	203.7	161.4	96.1	30.7	11.5	11.5	7.7	3.8	3.8
62.5°	9330.8	4784.5	142.2	115.3	57.6	15.4	7.7	3.8	0.0	0.0	0.0
65°	9611.4	4561.7	92.2	76.9	34.6	11.5	3.8	0.0	0.0	0.0	0.0
67.5°	9530.7	4142.8	57.6	50.0	15.4	7.7	3.8	0.0	0.0	0.0	0.0
70°	8600.7	3397.2	42.3	30.7	11.5	3.8	0.0	0.0	0.0	0.0	0.0
72.5°	6198.8	2298.1	30.7	19.2	7.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2982.2	818.6	19.2	15.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	730.2	180.6	11.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	161.4	34.6	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.8	15.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	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)