

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: P400278

Luminaire Tested: **ARCH-L-PA3-260-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400278
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-PA3-260-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 20709 lumens
Efficiency: N/A
Efficacy: 79.3 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

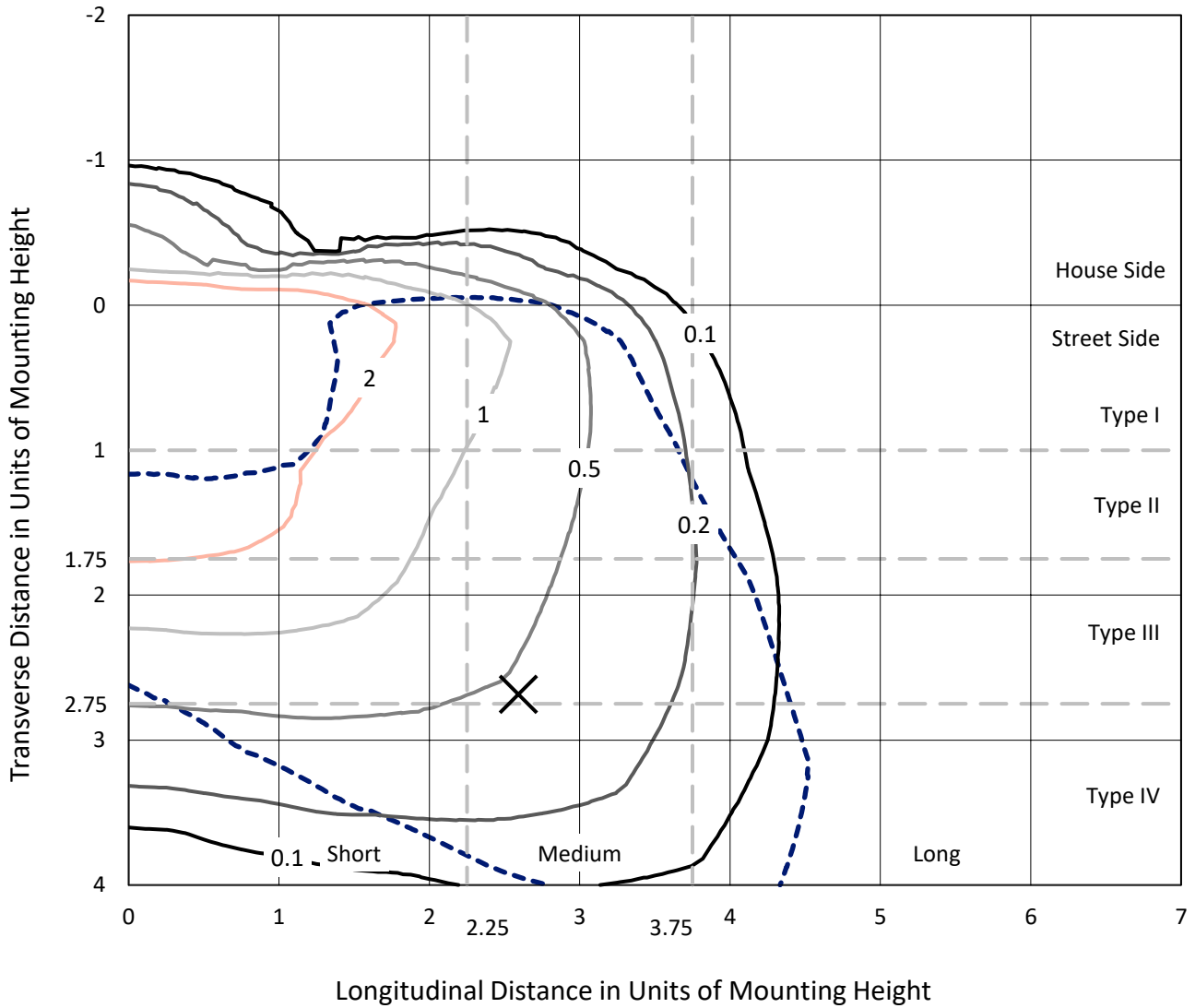
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

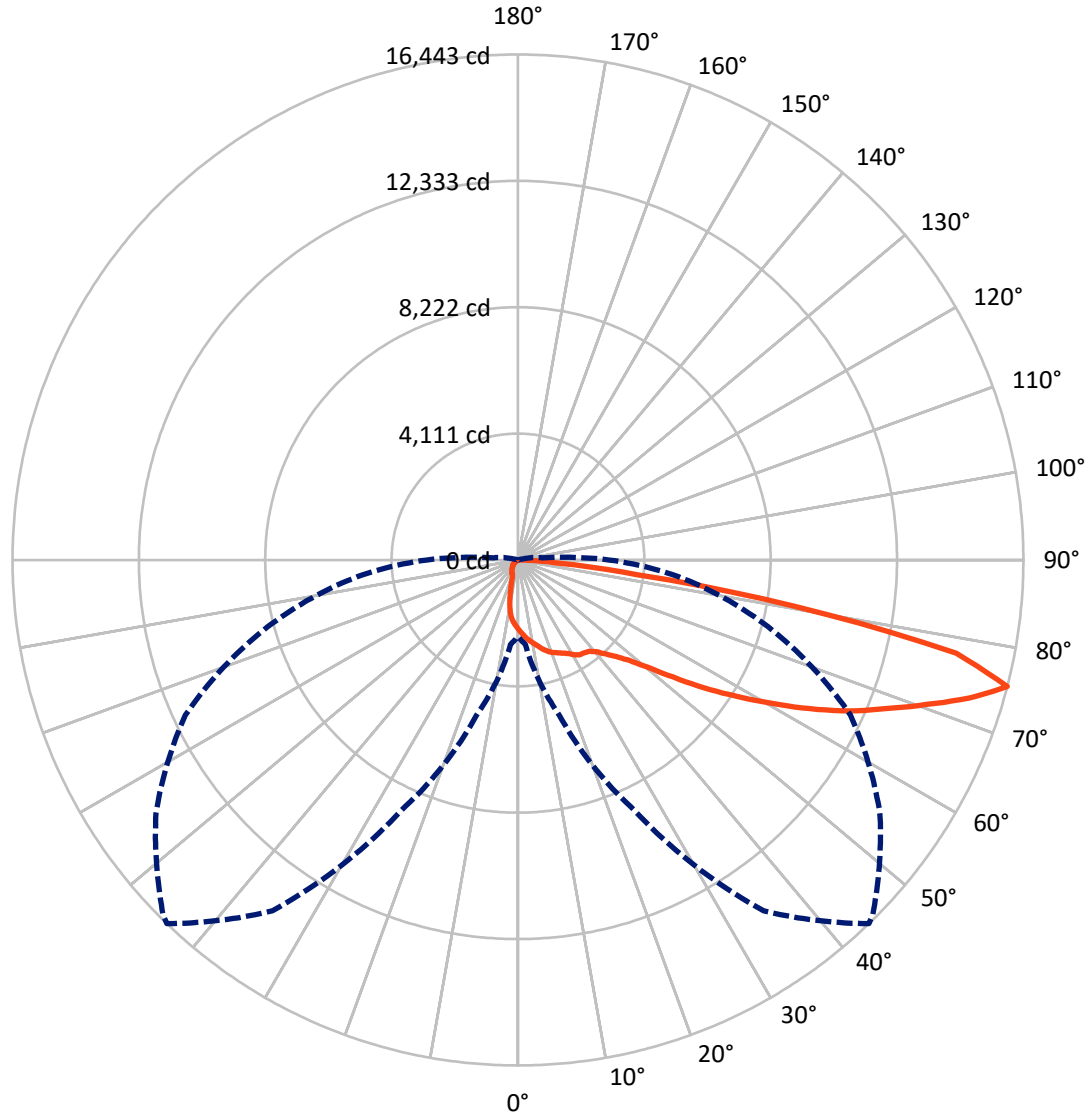
× Max cd
 - - - 1/2 Max cd



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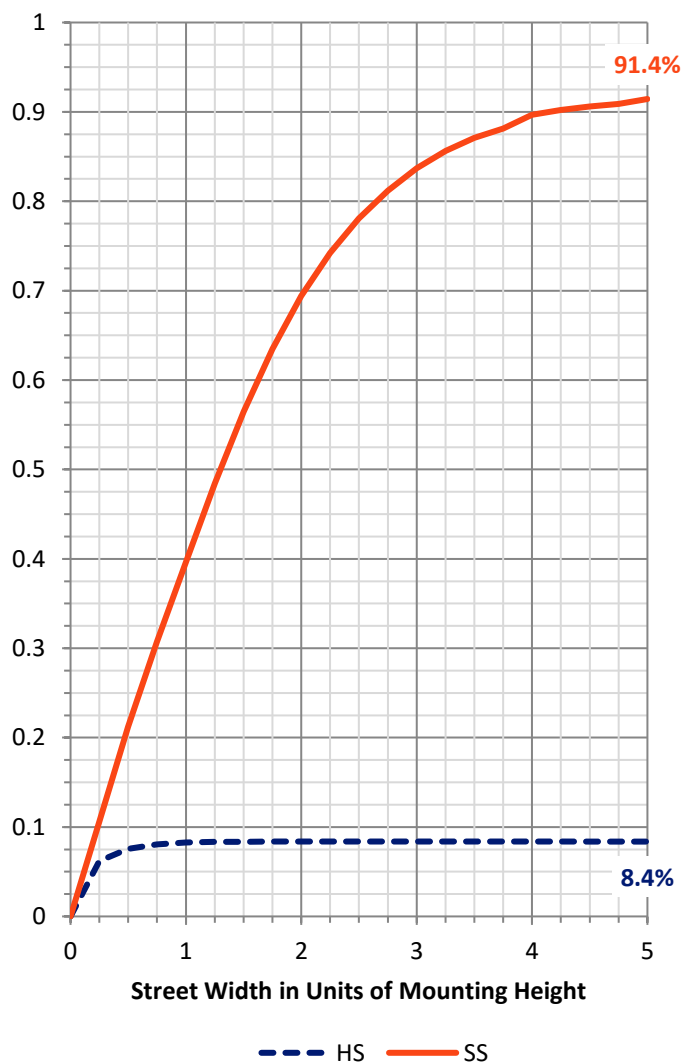
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1746.4	0.0	1746.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18962.6	0.0	18962.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	20709.0	0.0	20709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	1.0
10°-20°	595.7	2.9
20°-30°	983.0	4.7
30°-40°	1426.7	6.9
40°-50°	2319.3	11.2
50°-60°	4088.6	19.7
60°-70°	5876.2	28.4
70°-80°	4705.5	22.7
80°-90°	501.3	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°	20709.0	100.0
0°-180°	20709.0	100.0

Coefficient of Utilization



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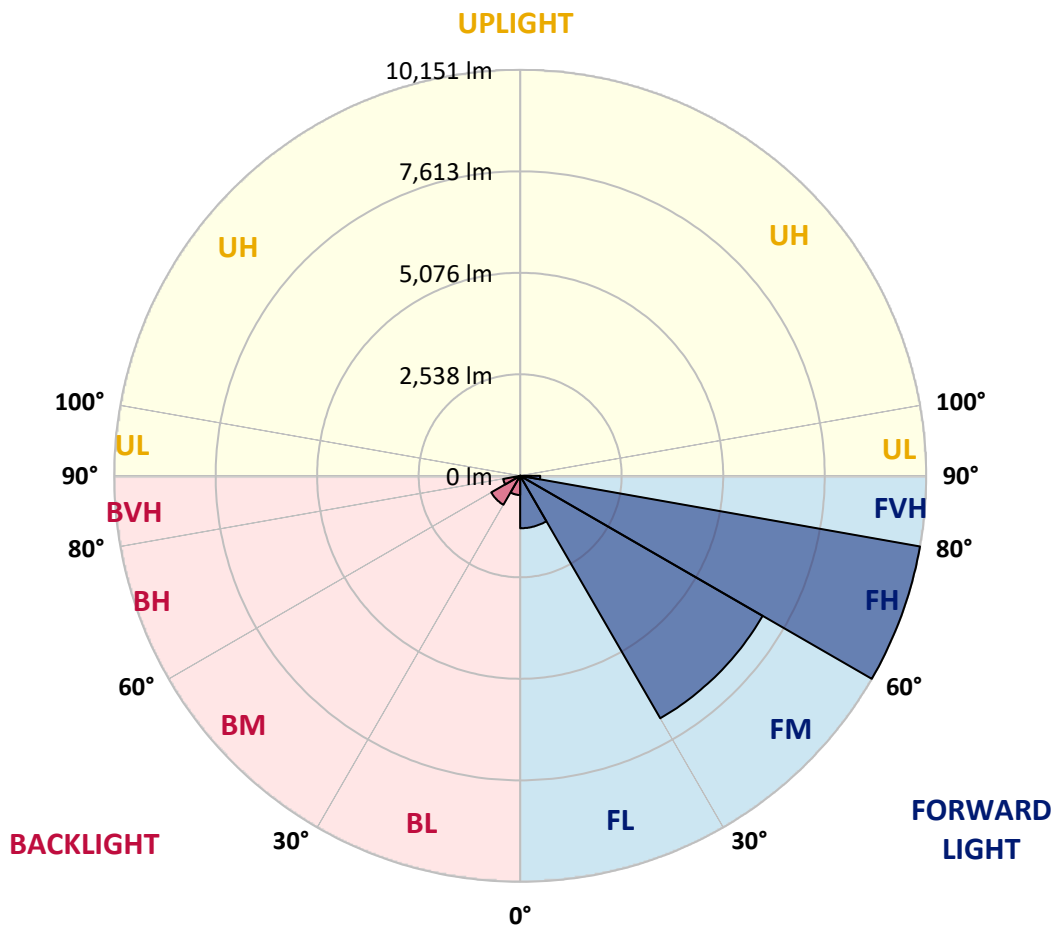
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.5	6.3			
FM (30°-60°)	6999.8	33.8			
FH (60°-80°)	10151.2	49.0			G4/12000
FVH (80°-90°)	500.1	2.4			G4/750
BL (0°-30°)	479.8	2.3	B1/500		
BM (30°-60°)	834.8	4.0	B1/1000		
BH (60°-80°)	430.5	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°	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2456.6	2452.8	2441.3	2422.2	2403.1	2384.0	2380.2	2349.6	2315.2	2288.5	2265.6
5°	2674.4	2670.5	2651.4	2609.4	2567.4	2517.7	2513.9	2441.3	2376.4	2303.8	2242.6
7.5°	2899.8	2892.1	2857.7	2792.8	2720.2	2643.8	2636.1	2529.2	2433.7	2338.1	2250.3
10°	3075.5	3067.9	3018.2	2941.8	2842.5	2746.9	2735.5	2624.7	2529.2	2406.9	2288.5
12.5°	3247.4	3232.1	3167.2	3083.1	2960.9	2869.2	2857.7	2743.1	2628.5	2502.4	2357.2
15°	3407.9	3388.8	3327.7	3220.7	3090.8	3002.9	2995.3	2873.0	2754.6	2609.4	2448.9
17.5°	3518.7	3511.0	3438.5	3320.0	3193.9	3121.4	3113.7	2987.6	2869.2	2716.4	2544.5
20°	3576.0	3576.0	3507.2	3377.3	3262.7	3213.0	3201.6	3083.1	2968.5	2823.4	2643.8
22.5°	3587.5	3598.9	3545.4	3404.1	3320.0	3278.0	3270.3	3167.2	3056.4	2922.7	2754.6
25°	3610.4	3610.4	3583.6	3430.8	3369.7	3358.2	3354.4	3262.7	3163.4	3029.7	2865.4
27.5°	3637.1	3637.1	3618.0	3469.0	3446.1	3442.3	3438.5	3396.4	3316.2	3159.6	2995.3
30°	3705.9	3709.7	3694.4	3545.4	3530.1	3572.2	3579.8	3556.9	3457.6	3262.7	3129.0
32.5°	3877.8	3843.4	3801.4	3598.9	3625.7	3679.1	3683.0	3637.1	3530.1	3373.5	3289.5
35°	4309.5	4107.0	3916.0	3644.8	3656.2	3709.7	3717.3	3713.5	3648.6	3514.9	3472.8
37.5°	4710.7	4424.1	4152.9	3751.7	3713.5	3770.8	3786.1	3851.1	3801.4	3709.7	3721.2
40°	4943.7	4832.9	4641.9	4045.9	3828.1	3916.0	3931.3	4030.6	4011.5	3973.3	4045.9
42.5°	5662.0	5669.6	5463.3	4485.3	4038.3	4179.6	4198.7	4279.0	4305.7	4324.8	4500.6
45°	6494.9	6521.6	6471.9	5276.1	4435.6	4481.4	4508.2	4615.2	4714.5	4836.8	5157.7
47.5°	7495.8	7472.9	7289.5	6242.7	5127.1	4871.1	4890.2	5096.5	5268.5	5535.9	5994.4
50°	8382.2	8439.5	8091.8	7144.3	6101.3	5486.2	5467.1	5669.6	5979.1	6353.5	6930.4
52.5°	9276.2	9192.1	8722.2	8038.3	7255.1	6322.9	6265.6	6376.4	6812.0	7255.1	7847.3
55°	9513.0	9520.7	9360.2	9016.4	8217.9	7339.2	7243.7	7236.0	7778.5	8080.4	8810.1
57.5°	9979.2	9998.3	10036.5	10105.2	9727.0	8355.4	8256.1	8149.1	8676.4	8852.1	9776.7
60°	10452.9	10475.8	10708.9	11079.5	10827.3	9451.9	9344.9	9092.8	9387.0	9623.8	10792.9
62.5°	10391.8	10552.2	11228.5	11965.8	11935.2	10655.4	10521.7	9914.2	10101.4	10307.7	11725.1
65°	9383.2	9555.1	11075.6	12210.3	13047.0	11843.6	11625.8	10762.4	10773.8	11022.1	12622.9
67.5°	8481.5	8668.7	10120.5	12107.2	13780.6	12909.5	12684.1	11614.3	11434.8	11847.4	13104.3
70°	7961.9	8149.1	9360.2	11786.2	13986.9	14090.0	13895.2	12588.6	12221.8	12600.0	12565.6
72.5°	6231.2	6525.4	8389.8	11175.0	14208.4	15354.6	15201.8	13822.6	12890.4	11813.0	9566.5
75°	2483.3	2754.6	5237.9	8993.5	13929.6	16443.4	16325.0	14376.5	11931.4	8435.7	4897.9
77.5°	748.8	802.3	1455.6	4447.1	10212.2	14579.0	14540.8	12088.1	8443.3	3916.0	1337.2
80°	248.3	275.1	447.0	1226.4	4661.0	9108.1	9280.0	7702.1	3835.8	897.8	271.3
82.5°	103.2	114.6	225.4	492.8	1650.5	3923.7	3866.3	3449.9	1337.2	557.8	99.3
85°	26.7	34.4	103.2	282.7	603.6	1352.5	1421.2	1157.6	756.5	462.3	30.6
87.5°	0.0	0.0	49.7	114.6	271.3	408.8	427.9	351.5	427.9	347.7	15.3
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°	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2246.5	2227.4	2193.0	2170.0	2139.5	2131.8	2116.6	2097.5	2093.6	2074.5	2078.4
5°	2208.3	2177.7	2116.6	2074.5	2024.9	2009.6	1982.8	1963.7	1948.5	1921.7	1925.5
7.5°	2200.6	2154.8	2070.7	1990.5	1910.3	1852.9	1772.7	1707.8	1654.3	1597.0	1608.4
10°	2227.4	2170.0	2051.6	1940.8	1795.6	1612.3	1402.1	1264.6	1195.8	1127.0	1134.7
12.5°	2280.8	2212.1	2059.3	1891.1	1597.0	1283.7	993.3	806.1	756.5	725.9	729.7
15°	2361.1	2277.0	2082.2	1795.6	1329.5	928.4	660.9	580.7	599.8	611.3	611.3
17.5°	2445.1	2349.6	2101.3	1623.7	1027.7	649.5	538.7	531.0	557.8	584.5	584.5
20°	2548.3	2426.0	2105.1	1405.9	741.2	527.2	508.1	508.1	527.2	557.8	557.8
22.5°	2647.6	2510.1	2070.7	1157.6	565.4	489.0	489.0	489.0	500.5	531.0	534.9
25°	2766.0	2613.2	1998.1	894.0	485.2	466.1	466.1	469.9	477.6	504.3	508.1
27.5°	2892.1	2720.2	1875.9	653.3	443.2	439.4	443.2	447.0	450.8	477.6	485.2
30°	3037.3	2838.6	1719.2	489.0	405.0	405.0	416.4	424.1	424.1	447.0	454.6
32.5°	3205.4	2995.3	1532.0	405.0	366.8	362.9	382.1	393.5	393.5	412.6	420.3
35°	3415.5	3155.7	1306.6	359.1	336.2	328.6	336.2	355.3	362.9	378.2	382.1
37.5°	3694.4	3346.8	1065.9	332.4	313.3	298.0	298.0	301.8	317.1	332.4	336.2
40°	4049.7	3556.9	829.0	313.3	290.4	275.1	263.6	259.8	256.0	267.4	275.1
42.5°	4496.7	3793.8	618.9	294.2	271.3	248.3	233.1	217.8	198.7	194.8	198.7
45°	5069.8	4084.1	458.5	278.9	259.8	225.4	198.7	171.9	137.5	126.1	129.9
47.5°	5746.0	4385.9	359.1	263.6	252.2	198.7	164.3	118.4	84.1	76.4	80.2
50°	6464.3	4676.3	305.6	244.5	236.9	171.9	118.4	72.6	49.7	49.7	53.5
52.5°	7075.6	4840.6	278.9	229.2	213.9	141.4	76.4	42.0	30.6	30.6	34.4
55°	7667.7	4928.4	259.8	213.9	183.4	99.3	42.0	26.7	19.1	19.1	19.1
57.5°	8279.0	4966.7	236.9	194.8	145.2	61.1	22.9	15.3	11.5	11.5	11.5
60°	8821.5	4894.1	202.5	160.5	95.5	30.6	11.5	11.5	7.6	3.8	3.8
62.5°	9276.2	4756.5	141.4	114.6	57.3	15.3	7.6	3.8	0.0	0.0	0.0
65°	9555.1	4534.9	91.7	76.4	34.4	11.5	3.8	0.0	0.0	0.0	0.0
67.5°	9474.8	4118.5	57.3	49.7	15.3	7.6	3.8	0.0	0.0	0.0	0.0
70°	8550.3	3377.3	42.0	30.6	11.5	3.8	0.0	0.0	0.0	0.0	0.0
72.5°	6162.5	2284.7	30.6	19.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2964.7	813.8	19.1	15.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	725.9	179.6	11.5	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.5	34.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.5	15.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	7.6	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)