

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: P400497

Luminaire Tested: **ARCH-L-PA3-90-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11292 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

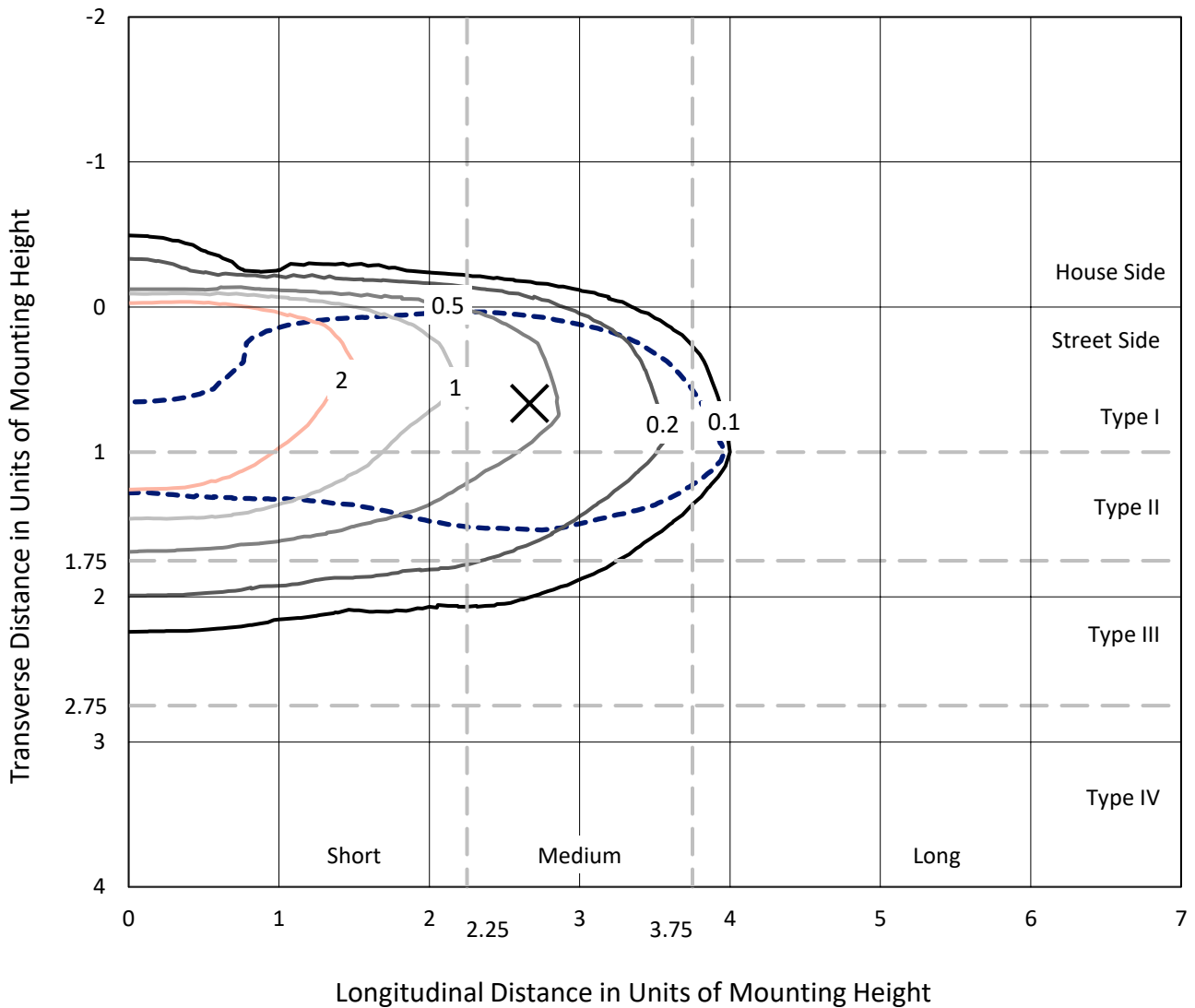
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

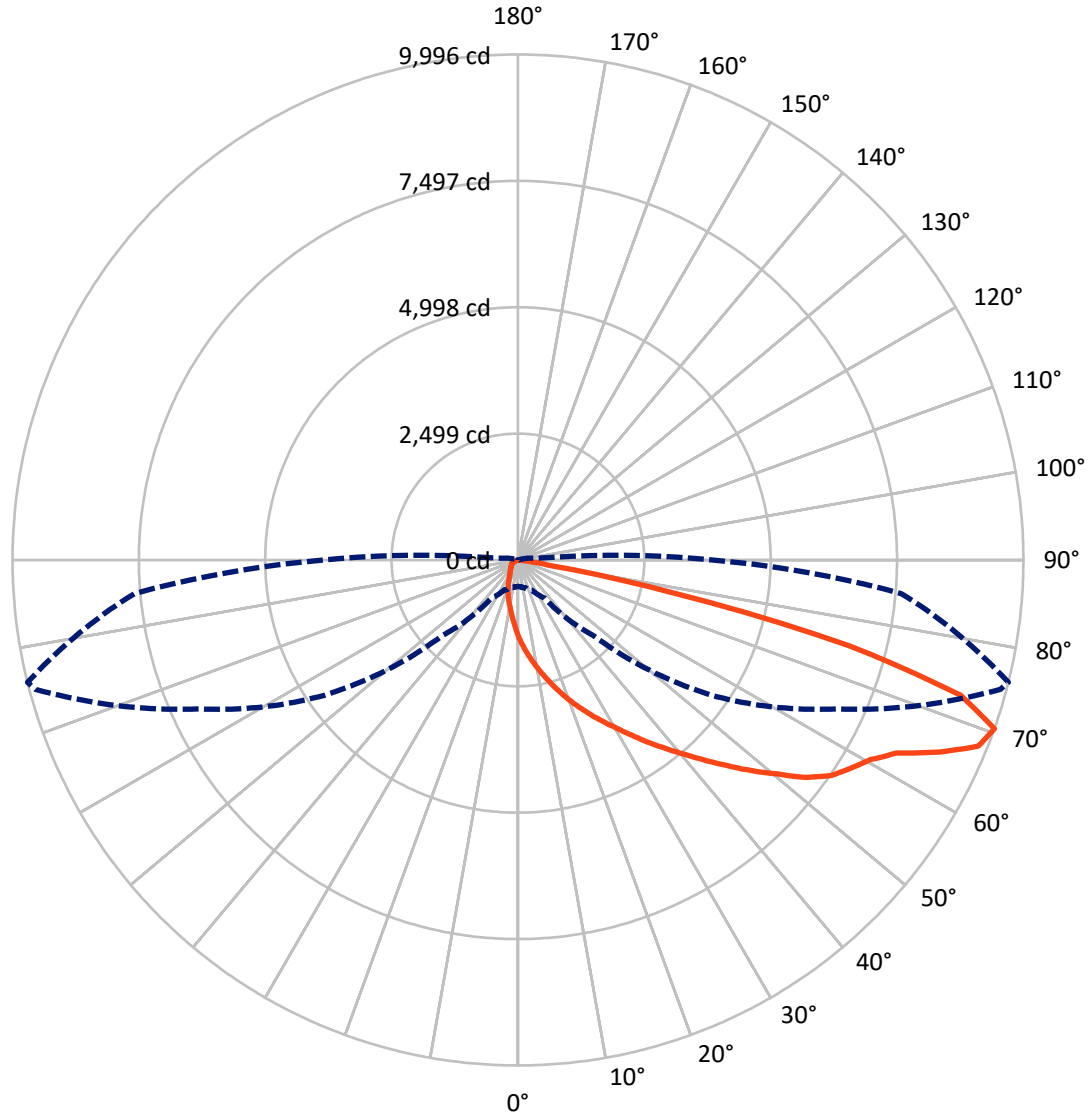
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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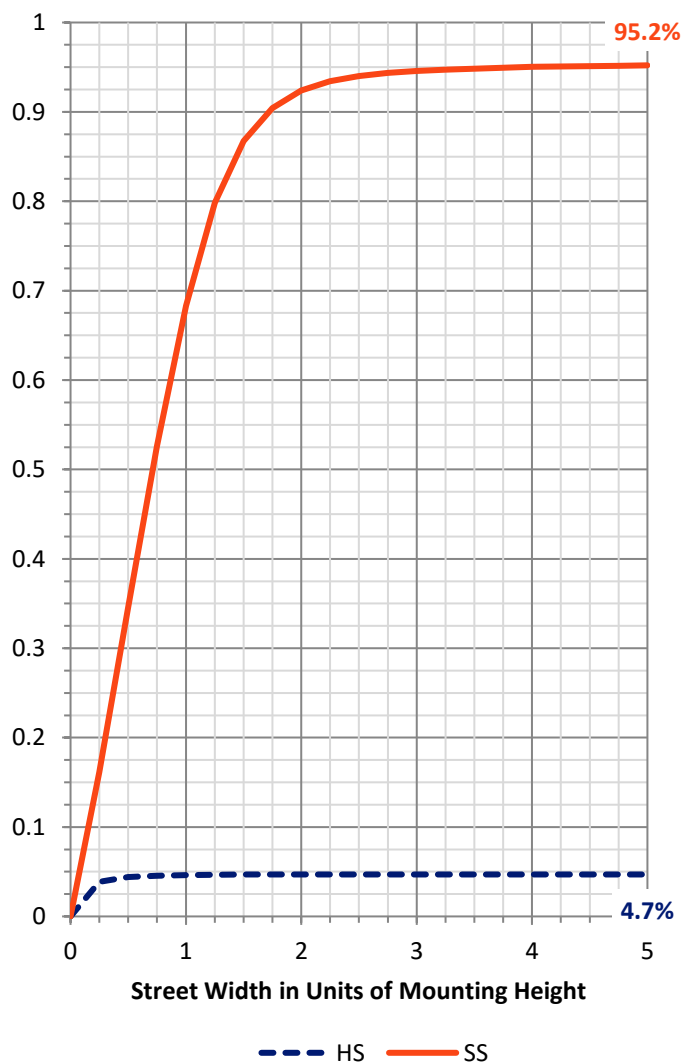
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	532.6	0.0	532.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10759.4	0.0	10759.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	11292.0	0.0	11292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	1.3
10°-20°	459.6	4.1
20°-30°	855.9	7.6
30°-40°	1513.9	13.4
40°-50°	2315.1	20.5
50°-60°	2624.8	23.2
60°-70°	2250.1	19.9
70°-80°	1089.8	9.7
80°-90°	40.4	0.4
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°	11292.0	100.0
0°-180°	11292.0	100.0

Coefficient of Utilization



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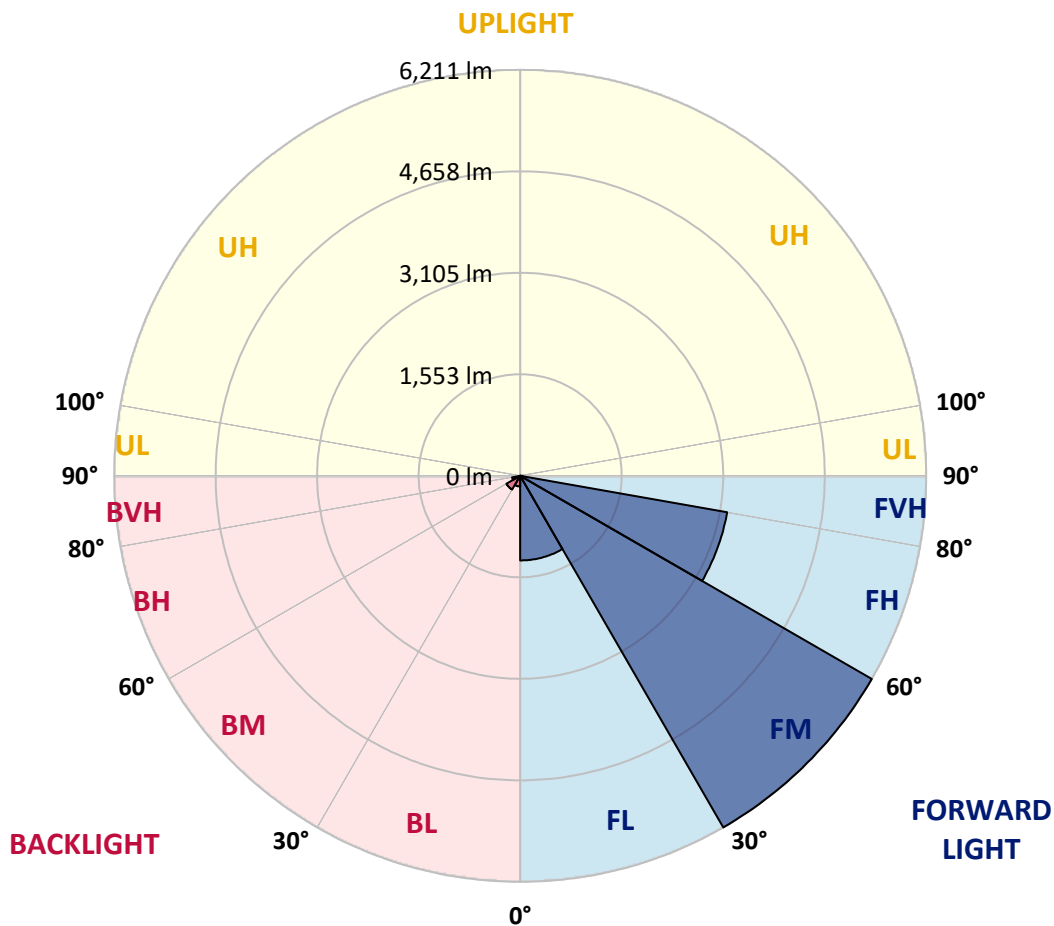
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.5	11.5			
FM (30°-60°)	6210.7	55.0			
FH (60°-80°)	3214.5	28.5			G2/5000
FVH (80°-90°)	39.7	0.4			G1/100
BL (0°-30°)	163.4	1.4	B1/500		
BM (30°-60°)	243.1	2.2	B1/1000		
BH (60°-80°)	125.4	1.1	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5
2.5°	2066.1	2054.8	2043.5	2000.3	1960.8	1925.1	1857.4	1769.1	1690.1	1673.2	1581.1
5°	2427.1	2413.9	2397.0	2353.7	2303.0	2242.8	2143.2	2007.8	1868.7	1838.6	1667.5
7.5°	2671.5	2660.2	2635.7	2615.1	2564.3	2506.0	2395.1	2237.2	2045.4	2007.8	1767.2
10°	2838.8	2831.3	2827.5	2810.6	2773.0	2726.0	2615.1	2449.6	2224.0	2180.8	1872.5
12.5°	2898.9	2898.9	2917.7	2945.9	2951.6	2936.5	2835.0	2669.6	2412.0	2366.9	1996.5
15°	2818.1	2827.5	2868.9	2959.1	3053.1	3115.1	3051.2	2897.1	2618.8	2569.9	2143.2
17.5°	2795.5	2804.9	2833.1	2912.1	3038.1	3203.5	3235.5	3117.0	2814.3	2773.0	2293.6
20°	2859.5	2868.9	2893.3	2961.0	3056.9	3224.2	3357.7	3329.5	3021.1	2977.9	2445.9
22.5°	3011.7	3017.4	3017.4	3070.0	3154.6	3278.7	3434.7	3530.6	3233.6	3186.6	2596.3
25°	3338.9	3327.6	3282.5	3256.1	3310.7	3412.2	3532.5	3707.3	3470.4	3406.5	2757.9
27.5°	3767.5	3805.1	3696.0	3570.1	3528.7	3587.0	3669.7	3863.4	3699.8	3632.1	2904.6
30°	4348.4	4333.4	4190.5	4010.0	3831.4	3810.7	3838.9	3996.8	3929.2	3865.2	3068.1
32.5°	4825.9	4854.1	4703.7	4483.8	4216.8	4090.8	4060.8	4156.6	4173.6	4132.2	3261.8
35°	5316.6	5346.7	5200.0	4955.6	4637.9	4427.4	4340.9	4354.0	4476.2	4423.6	3464.8
37.5°	5756.5	5782.8	5638.1	5388.0	5070.3	4812.8	4688.7	4587.2	4769.5	4722.5	3679.1
40°	6091.1	6094.9	5997.1	5773.4	5472.6	5205.7	5064.7	4865.4	5079.7	5047.8	3902.8
42.5°	6328.0	6335.5	6264.1	6072.3	5794.1	5546.0	5431.3	5194.4	5436.9	5408.7	4162.3
45°	6438.9	6452.1	6444.6	6267.9	6036.6	5822.3	5784.7	5544.1	5827.9	5801.6	4461.2
47.5°	6333.7	6333.7	6429.5	6405.1	6192.7	6049.8	6093.0	5908.8	6252.8	6228.4	4765.8
50°	5895.6	5901.3	6096.8	6376.9	6252.8	6220.9	6356.2	6266.0	6638.2	6653.3	5130.5
52.5°	4745.1	4735.7	5395.6	5933.2	6211.5	6297.9	6598.7	6630.7	7100.7	7145.8	5493.3
55°	3545.6	3540.0	4171.7	5147.4	5921.9	6258.5	6734.1	6955.9	7495.5	7523.7	5764.0
57.5°	2806.8	2791.8	3139.6	4149.1	5267.7	6081.7	6739.7	7018.0	7715.5	7764.3	6027.2
60°	2158.2	2145.1	2404.5	3086.9	4340.9	5611.8	6578.1	7021.7	7927.9	8014.4	6380.7
62.5°	1543.5	1558.5	1757.8	2214.6	3338.9	4948.1	6367.5	7074.4	8305.8	8403.5	6882.6
65°	1041.5	1034.0	1199.4	1507.7	2374.4	4055.1	6044.1	7185.3	8986.3	9157.4	7484.2
67.5°	723.8	729.4	804.6	981.4	1507.7	3113.3	5506.5	7247.3	9689.4	9822.9	7905.3
70°	522.6	530.2	571.5	659.9	921.2	2111.2	4654.8	6963.5	9879.3	9995.9	7612.1
72.5°	344.0	359.1	421.1	468.1	588.4	1321.6	3429.1	5999.0	9061.5	9148.0	6386.3
75°	186.1	189.9	270.7	349.7	419.2	823.4	2045.4	4045.7	6779.2	6751.0	4211.2
77.5°	144.8	150.4	167.3	250.0	282.0	453.1	808.4	1827.3	3211.0	3124.5	1436.3
80°	88.4	92.1	116.6	148.5	197.4	263.2	236.9	496.3	652.4	611.0	210.6
82.5°	52.6	56.4	69.6	124.1	156.0	124.1	82.7	120.3	122.2	120.3	52.6
85°	9.4	9.4	48.9	86.5	82.7	35.7	48.9	39.5	35.7	37.6	11.3
87.5°	0.0	0.0	18.8	26.3	37.6	13.2	18.8	9.4	9.4	9.4	5.6
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°	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5	1511.5
2.5°	1524.7	1460.7	1329.1	1214.5	1099.8	1015.2	951.3	885.5	862.9	834.7	819.7
5°	1551.0	1425.0	1163.7	955.0	778.3	643.0	556.5	503.8	470.0	445.6	439.9
7.5°	1590.5	1396.8	1030.2	748.2	554.6	419.2	347.8	312.1	293.3	282.0	278.2
10°	1637.5	1372.4	898.6	582.8	391.0	295.2	255.7	240.6	233.1	229.4	227.5
12.5°	1703.3	1363.0	787.7	449.3	295.2	242.5	221.8	212.4	206.8	201.2	199.3
15°	1789.7	1366.7	686.2	347.8	244.4	216.2	199.3	189.9	182.4	176.7	176.7
17.5°	1880.0	1372.4	586.6	282.0	221.8	197.4	178.6	165.4	159.8	154.2	152.3
20°	1964.6	1370.5	490.7	240.6	201.2	176.7	157.9	144.8	135.4	129.7	129.7
22.5°	2045.4	1359.2	400.4	216.2	184.2	156.0	135.4	122.2	114.7	109.0	109.0
25°	2131.9	1336.7	327.1	197.4	163.6	137.2	116.6	103.4	97.8	92.1	92.1
27.5°	2199.6	1299.1	267.0	180.5	144.8	118.4	99.6	88.4	82.7	79.0	79.0
30°	2272.9	1244.5	221.8	161.7	126.0	101.5	84.6	75.2	69.6	67.7	67.7
32.5°	2353.7	1184.4	189.9	142.9	107.2	86.5	71.4	65.8	60.2	58.3	58.3
35°	2447.7	1131.8	171.1	124.1	94.0	73.3	62.0	56.4	52.6	52.6	52.6
37.5°	2554.9	1077.2	154.2	109.0	80.8	62.0	52.6	50.8	48.9	47.0	47.0
40°	2671.5	1019.0	139.1	95.9	69.6	52.6	45.1	45.1	43.2	43.2	43.2
42.5°	2803.1	968.2	126.0	84.6	60.2	45.1	39.5	39.5	37.6	37.6	37.6
45°	2945.9	921.2	114.7	75.2	52.6	39.5	35.7	33.8	32.0	32.0	32.0
47.5°	3115.1	894.9	105.3	65.8	45.1	33.8	30.1	28.2	26.3	24.4	24.4
50°	3331.3	906.2	95.9	54.5	39.5	28.2	24.4	22.6	20.7	18.8	18.8
52.5°	3502.4	900.5	82.7	47.0	32.0	22.6	18.8	16.9	15.0	13.2	13.2
55°	3626.5	878.0	71.4	39.5	24.4	18.8	15.0	11.3	9.4	9.4	9.4
57.5°	3748.7	855.4	60.2	32.0	18.8	13.2	9.4	7.5	7.5	7.5	7.5
60°	3938.6	823.4	52.6	26.3	15.0	9.4	5.6	5.6	3.8	3.8	3.8
62.5°	4169.8	784.0	43.2	22.6	11.3	7.5	3.8	3.8	0.0	0.0	0.0
65°	4423.6	714.4	35.7	16.9	9.4	5.6	3.8	0.0	0.0	0.0	0.0
67.5°	4365.3	573.4	30.1	11.3	7.5	3.8	1.9	0.0	0.0	0.0	0.0
70°	3861.5	387.3	24.4	9.4	5.6	3.8	1.9	0.0	0.0	0.0	0.0
72.5°	3024.9	229.4	16.9	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	1936.4	114.7	11.3	5.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	648.6	56.4	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	92.1	18.8	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.7	7.5	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	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)