

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: P399336

Luminaire Tested: **ARCH-L-PA3-130-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399336
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-PA3-130-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA 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: 14099 lumens
Efficiency: N/A
Efficacy: 106.0 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

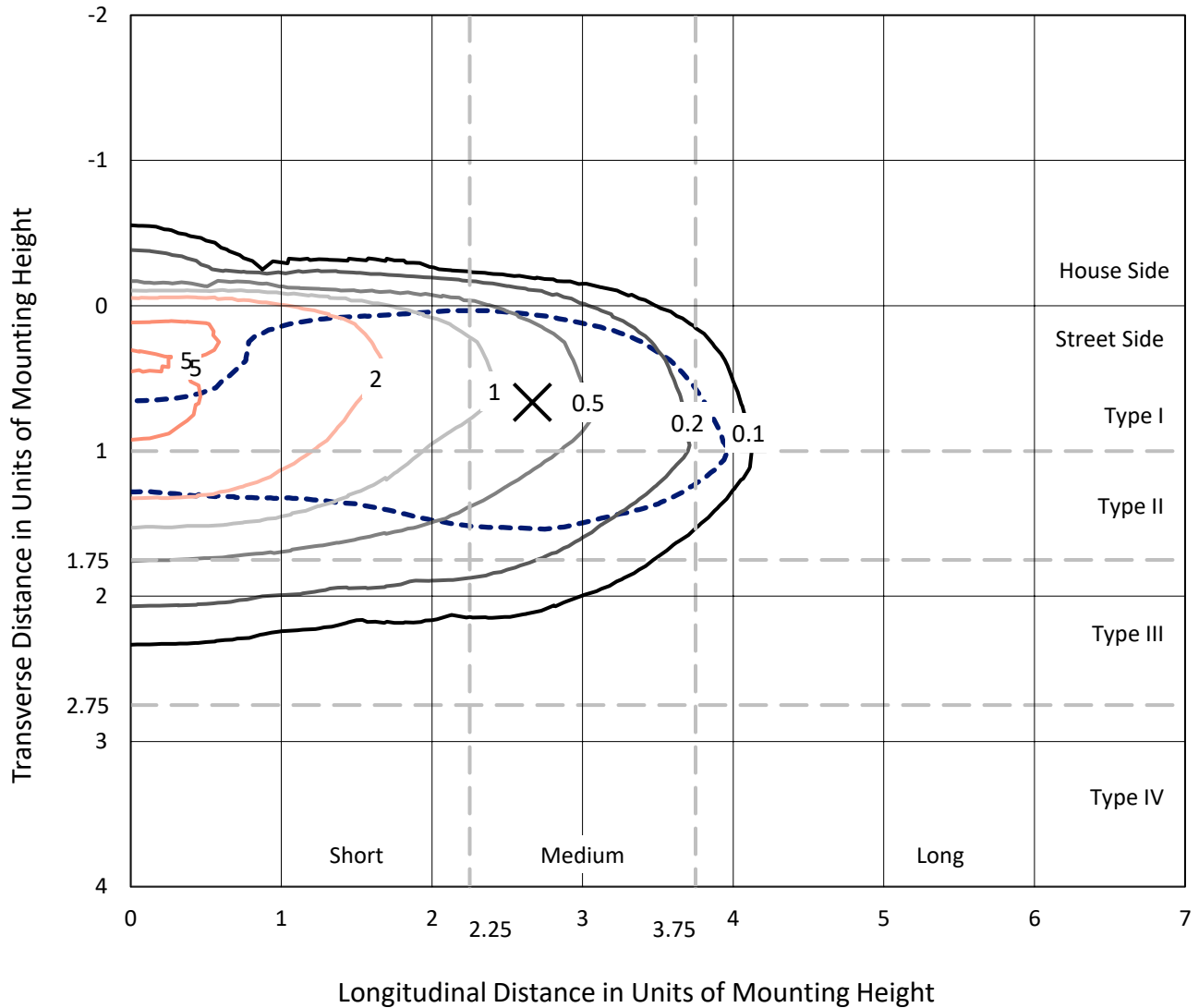
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

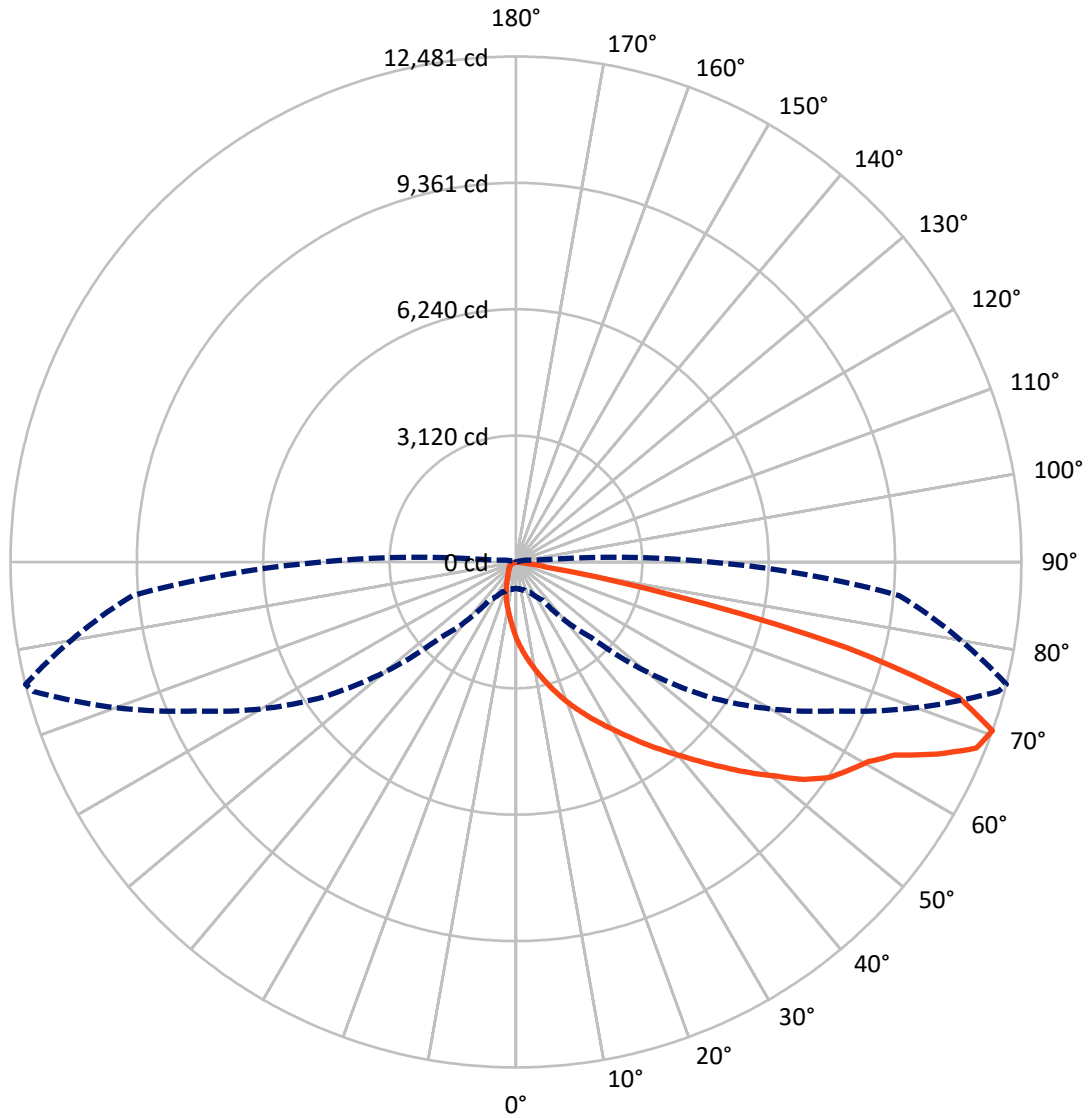
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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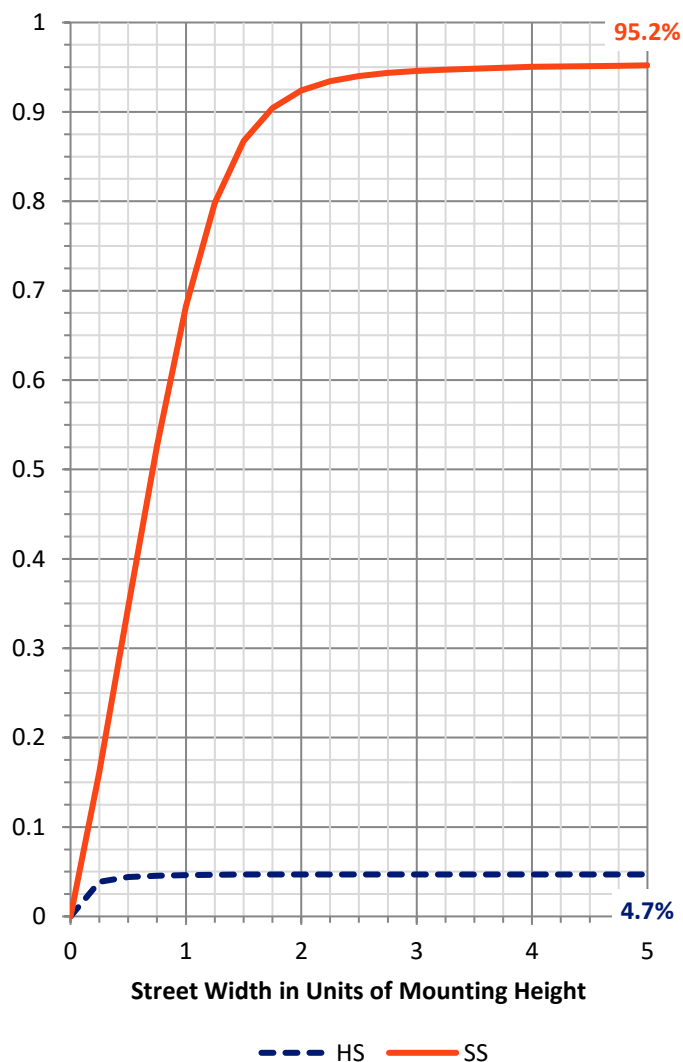
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.9	0.0	664.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13434.0	0.0	13434.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	14099.0	0.0	14099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.3
10°-20°	573.8	4.1
20°-30°	1068.7	7.6
30°-40°	1890.2	13.4
40°-50°	2890.6	20.5
50°-60°	3277.3	23.2
60°-70°	2809.4	19.9
70°-80°	1360.7	9.7
80°-90°	50.5	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°	14099.0	100.0
0°-180°	14099.0	100.0

Coefficient of Utilization

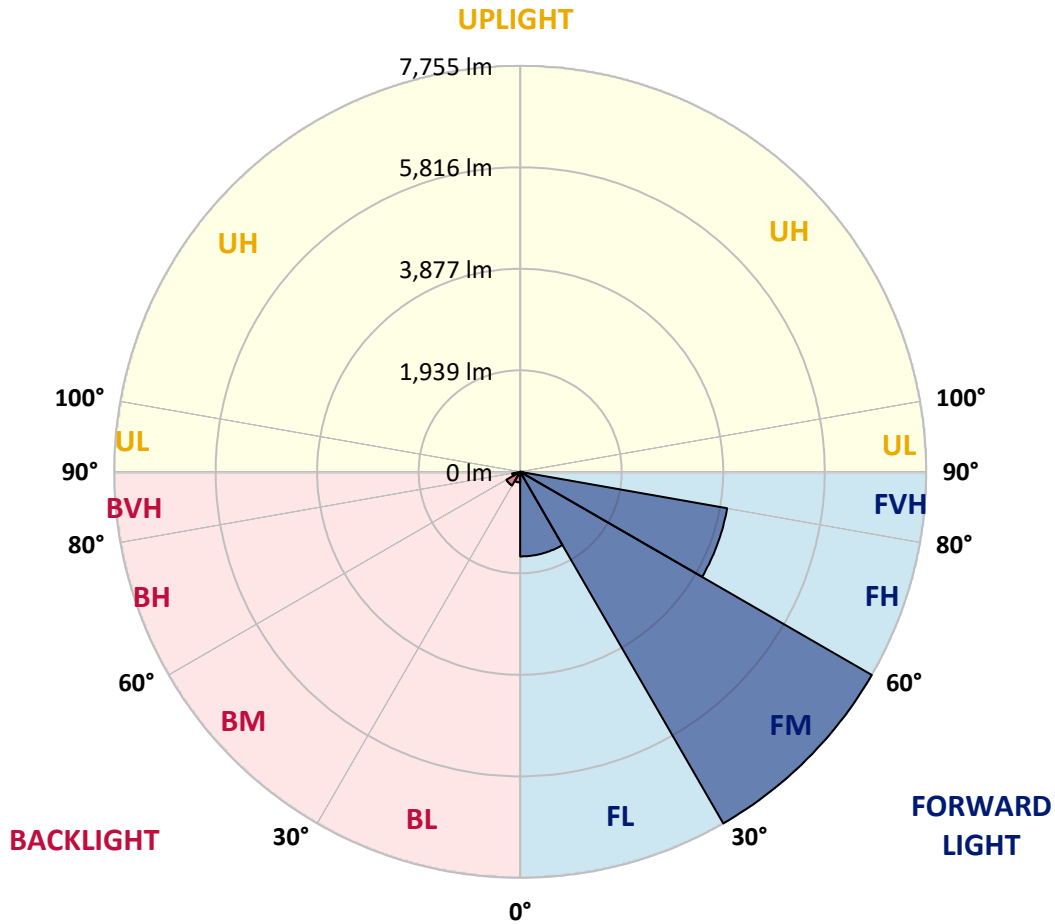


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.3	11.5			
FM (30°-60°)	7754.6	55.0			
FH (60°-80°)	4013.6	28.5			G2/5000
FVH (80°-90°)	49.6	0.4			G1/100
BL (0°-30°)	204.0	1.4	B1/500		
BM (30°-60°)	303.5	2.2	B1/1000		
BH (60°-80°)	156.6	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	2579.7	2565.6	2551.5	2497.5	2448.3	2403.7	2319.1	2208.8	2110.2	2089.1	1974.1
5°	3030.4	3014.0	2992.8	2938.8	2875.5	2800.3	2675.9	2506.9	2333.2	2295.7	2082.1
7.5°	3335.5	3321.5	3290.9	3265.1	3201.7	3129.0	2990.5	2793.3	2553.9	2506.9	2206.5
10°	3544.4	3535.1	3530.4	3509.2	3462.3	3403.6	3265.1	3058.6	2776.9	2722.9	2337.9
12.5°	3619.6	3619.6	3643.0	3678.2	3685.3	3666.5	3539.8	3333.2	3011.6	2955.3	2492.8
15°	3518.6	3530.4	3582.0	3694.7	3812.0	3889.5	3809.7	3617.2	3269.8	3208.8	2675.9
17.5°	3490.5	3502.2	3537.4	3636.0	3793.3	3999.8	4039.7	3891.8	3513.9	3462.3	2863.7
20°	3570.3	3582.0	3612.5	3697.0	3816.7	4025.6	4192.3	4157.1	3772.1	3718.1	3053.9
22.5°	3760.4	3767.4	3767.4	3833.2	3938.8	4093.7	4288.5	4408.3	4037.4	3978.7	3241.6
25°	4168.8	4154.7	4098.4	4065.6	4133.6	4260.4	4410.6	4628.9	4333.1	4253.3	3443.5
27.5°	4704.0	4751.0	4614.8	4457.6	4405.9	4478.7	4582.0	4823.7	4619.5	4535.0	3626.6
30°	5429.3	5410.6	5232.2	5006.8	4783.8	4758.0	4793.2	4990.4	4905.9	4826.1	3830.8
32.5°	6025.6	6060.8	5873.0	5598.3	5265.0	5107.8	5070.2	5189.9	5211.0	5159.4	4072.6
35°	6638.2	6675.8	6492.7	6187.5	5790.8	5527.9	5420.0	5436.4	5589.0	5523.2	4326.1
37.5°	7187.5	7220.3	7039.6	6727.4	6330.7	6009.1	5854.2	5727.4	5955.1	5896.5	4593.7
40°	7605.3	7610.0	7487.9	7208.6	6833.0	6499.7	6323.7	6074.9	6342.4	6302.5	4873.0
42.5°	7901.1	7910.5	7821.3	7581.8	7234.4	6924.6	6781.4	6485.6	6788.4	6753.2	5197.0
45°	8039.6	8056.0	8046.6	7826.0	7537.2	7269.6	7222.7	6922.2	7276.7	7243.8	5570.2
47.5°	7908.1	7908.1	8027.8	7997.3	7732.1	7553.7	7607.6	7377.6	7807.2	7776.7	5950.4
50°	7361.2	7368.2	7612.3	7962.1	7807.2	7767.3	7936.3	7823.6	8288.4	8307.1	6405.8
52.5°	5924.6	5912.9	6736.8	7408.1	7755.5	7863.5	8239.1	8279.0	8865.8	8922.1	6858.9
55°	4427.0	4420.0	5208.7	6426.9	7394.0	7814.2	8408.1	8685.1	9358.7	9394.0	7196.9
57.5°	3504.5	3485.8	3920.0	5180.5	6577.2	7593.6	8415.1	8762.5	9633.4	9694.4	7525.5
60°	2694.7	2678.3	3002.2	3854.3	5420.0	7006.7	8213.3	8767.2	9898.6	10006.6	7966.8
62.5°	1927.1	1945.9	2194.7	2765.1	4168.8	6178.1	7950.4	8832.9	10370.4	10492.5	8593.5
65°	1300.4	1291.0	1497.6	1882.5	2964.7	5063.2	7546.6	8971.4	11220.2	11433.8	9344.7
67.5°	903.7	910.8	1004.7	1225.3	1882.5	3887.2	6875.3	9048.9	12098.1	12264.7	9870.5
70°	652.6	661.9	713.6	823.9	1150.2	2636.0	5812.0	8694.5	12335.1	12480.7	9504.3
72.5°	429.6	448.3	525.8	584.5	734.7	1650.2	4281.5	7490.3	11314.1	11422.0	7973.8
75°	232.4	237.1	338.0	436.6	523.5	1028.1	2553.9	5051.4	8464.4	8429.2	5258.0
77.5°	180.7	187.8	208.9	312.2	352.1	565.7	1009.3	2281.6	4009.2	3901.2	1793.3
80°	110.3	115.0	145.5	185.4	246.5	328.6	295.8	619.7	814.5	762.9	262.9
82.5°	65.7	70.4	86.9	154.9	194.8	154.9	103.3	150.2	152.6	150.2	65.7
85°	11.7	11.7	61.0	108.0	103.3	44.6	61.0	49.3	44.6	46.9	14.1
87.5°	0.0	0.0	23.5	32.9	46.9	16.4	23.5	11.7	11.7	11.7	7.0
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°	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	1903.7	1823.9	1659.6	1516.4	1373.2	1267.6	1187.7	1105.6	1077.4	1042.2	1023.4
5°	1936.5	1779.3	1453.0	1192.4	971.8	802.8	694.8	629.1	586.8	556.3	549.3
7.5°	1985.8	1744.1	1286.3	934.2	692.5	523.5	434.3	389.7	366.2	352.1	347.4
10°	2044.5	1713.5	1122.0	727.7	488.2	368.5	319.2	300.5	291.1	286.4	284.0
12.5°	2126.7	1701.8	983.5	561.0	368.5	302.8	277.0	265.2	258.2	251.2	248.8
15°	2234.6	1706.5	856.8	434.3	305.2	269.9	248.8	237.1	227.7	220.6	220.6
17.5°	2347.3	1713.5	732.4	352.1	277.0	246.5	223.0	206.6	199.5	192.5	190.1
20°	2452.9	1711.2	612.6	300.5	251.2	220.6	197.2	180.7	169.0	162.0	162.0
22.5°	2553.9	1697.1	500.0	269.9	230.0	194.8	169.0	152.6	143.2	136.1	136.1
25°	2661.9	1668.9	408.4	246.5	204.2	171.4	145.5	129.1	122.1	115.0	115.0
27.5°	2746.4	1622.0	333.3	225.3	180.7	147.9	124.4	110.3	103.3	98.6	98.6
30°	2837.9	1553.9	277.0	201.9	157.3	126.8	105.6	93.9	86.9	84.5	84.5
32.5°	2938.8	1478.8	237.1	178.4	133.8	108.0	89.2	82.2	75.1	72.8	72.8
35°	3056.2	1413.1	213.6	154.9	117.4	91.5	77.5	70.4	65.7	65.7	65.7
37.5°	3190.0	1345.0	192.5	136.1	100.9	77.5	65.7	63.4	61.0	58.7	58.7
40°	3335.5	1272.2	173.7	119.7	86.9	65.7	56.3	56.3	54.0	54.0	54.0
42.5°	3499.8	1208.9	157.3	105.6	75.1	56.3	49.3	49.3	46.9	46.9	46.9
45°	3678.2	1150.2	143.2	93.9	65.7	49.3	44.6	42.3	39.9	39.9	39.9
47.5°	3889.5	1117.3	131.4	82.2	56.3	42.3	37.6	35.2	32.9	30.5	30.5
50°	4159.4	1131.4	119.7	68.1	49.3	35.2	30.5	28.2	25.8	23.5	23.5
52.5°	4373.0	1124.4	103.3	58.7	39.9	28.2	23.5	21.1	18.8	16.4	16.4
55°	4528.0	1096.2	89.2	49.3	30.5	23.5	18.8	14.1	11.7	11.7	11.7
57.5°	4680.5	1068.0	75.1	39.9	23.5	16.4	11.7	9.4	9.4	9.4	9.4
60°	4917.6	1028.1	65.7	32.9	18.8	11.7	7.0	7.0	4.7	4.7	4.7
62.5°	5206.3	978.8	54.0	28.2	14.1	9.4	4.7	4.7	0.0	0.0	0.0
65°	5523.2	892.0	44.6	21.1	11.7	7.0	4.7	0.0	0.0	0.0	0.0
67.5°	5450.5	715.9	37.6	14.1	9.4	4.7	2.3	0.0	0.0	0.0	0.0
70°	4821.4	483.5	30.5	11.7	7.0	4.7	2.3	0.0	0.0	0.0	0.0
72.5°	3776.8	286.4	21.1	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0
75°	2417.7	143.2	14.1	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	809.8	70.4	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	115.0	23.5	4.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.8	9.4	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.3	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)