

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: P349016

Luminaire Tested: **ARCH-N-PA1-10-830-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1278 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

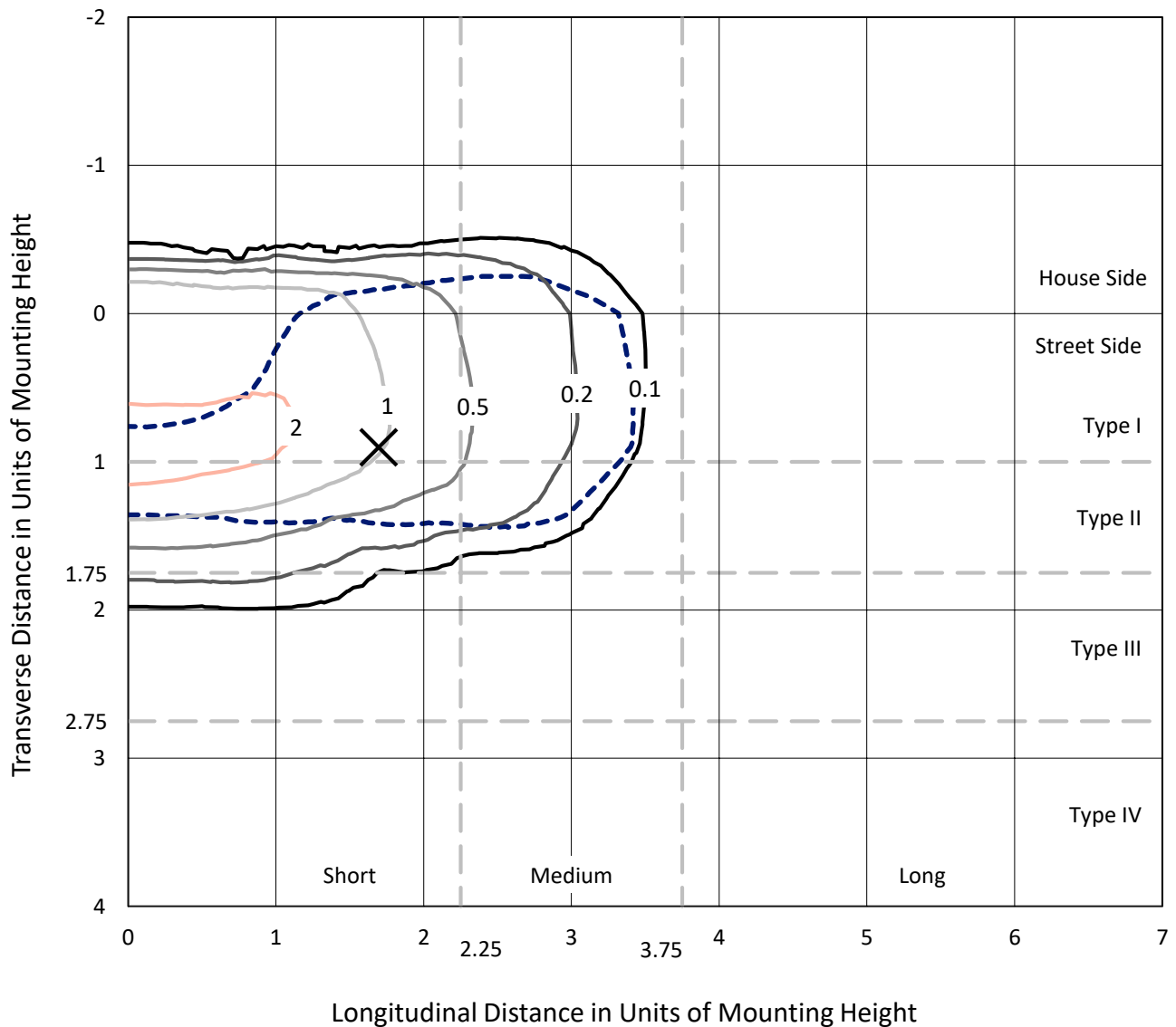
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

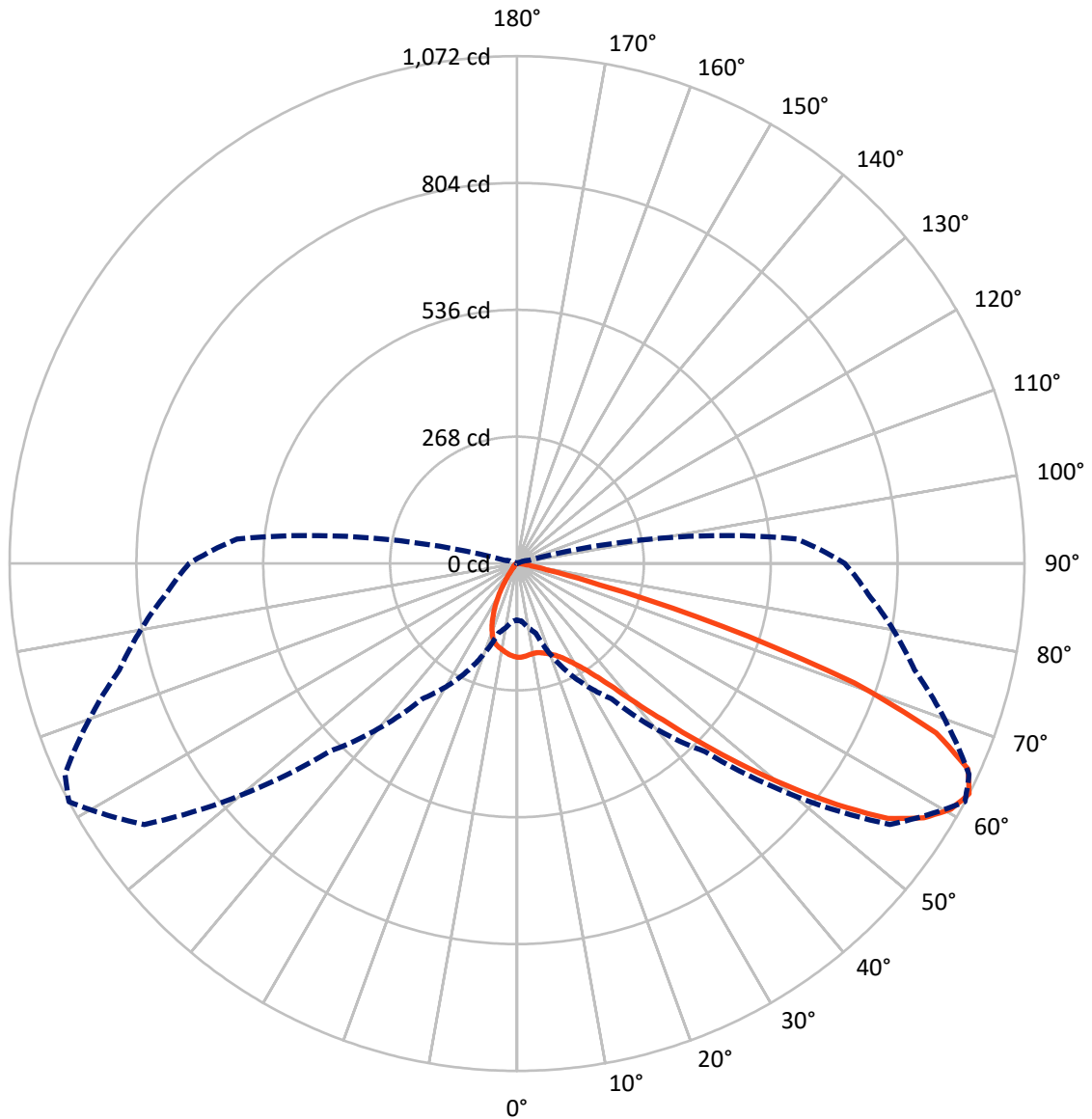
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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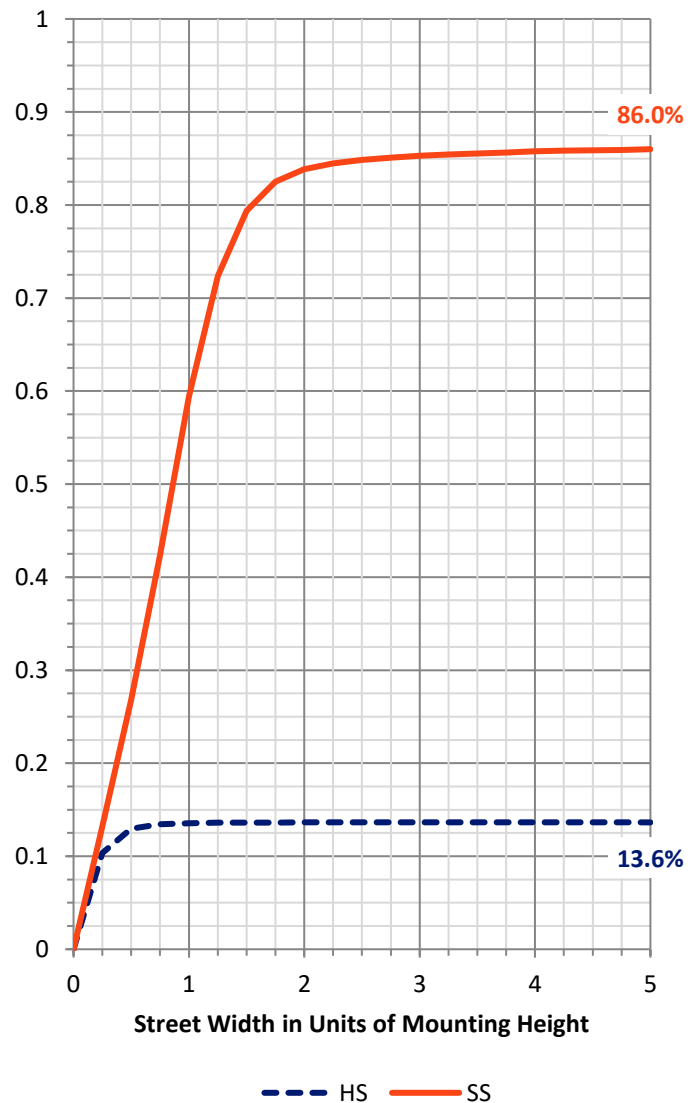
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	176.5	0.0	176.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1101.5	0.0	1101.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	1278.0	0.0	1278.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	1.4
10°-20°	45.4	3.6
20°-30°	67.8	5.3
30°-40°	129.1	10.1
40°-50°	269.3	21.1
50°-60°	357.7	28.0
60°-70°	278.9	21.8
70°-80°	105.4	8.2
80°-90°	6.3	0.5
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°	1278.0	100.0
0°-180°	1278.0	100.0



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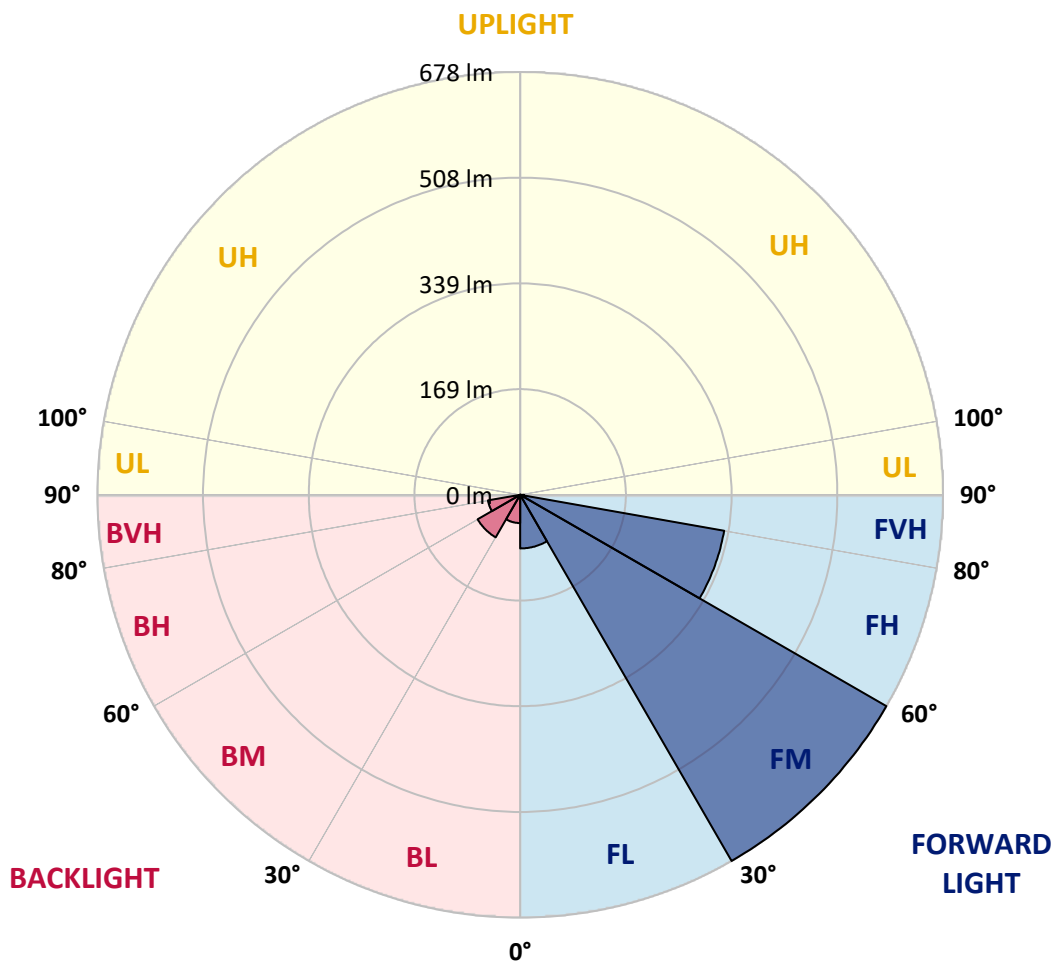
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.0	6.7			
FM	(30°-60°)	677.6	53.0			
FH	(60°-80°)	331.9	26.0			G0/660
FVH	(80°-90°)	6.0	0.5			G0/10
BL	(0°-30°)	45.3	3.5	B0/110		
BM	(30°-60°)	78.6	6.1	B0/220		
BH	(60°-80°)	52.3	4.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5
2.5°	197.9	197.5	198.4	198.4	198.2	198.5	198.2	198.0	197.9	197.5	197.2
5°	192.7	192.7	193.9	194.4	194.9	195.9	196.2	196.5	196.4	196.7	196.9
7.5°	186.7	187.0	188.4	189.0	189.9	191.9	193.0	194.4	194.5	195.7	196.4
10°	181.7	182.0	183.4	184.2	185.4	188.0	190.5	192.9	193.2	195.4	195.9
12.5°	178.3	178.7	180.0	181.2	183.7	187.0	190.5	193.2	194.0	196.7	196.7
15°	177.0	177.3	179.0	181.0	184.4	188.7	193.0	195.9	197.5	199.7	198.7
17.5°	176.5	177.2	180.0	183.0	186.7	191.4	196.7	199.7	201.4	203.7	201.6
20°	178.0	178.8	182.5	186.7	190.5	195.4	201.2	204.6	206.2	207.7	203.6
22.5°	183.4	184.7	187.9	192.5	195.5	201.4	207.2	211.1	212.9	212.7	207.2
25°	196.2	197.9	199.4	201.9	203.2	210.2	216.4	220.3	221.6	221.1	214.7
27.5°	226.6	228.8	223.4	217.9	214.9	221.4	228.3	232.3	233.4	232.4	222.8
30°	277.9	278.0	265.8	248.5	235.6	235.0	243.3	248.6	248.6	246.6	234.1
32.5°	352.5	347.2	331.8	301.1	272.0	256.8	263.2	268.3	268.3	265.8	251.5
35°	446.4	442.3	417.0	380.1	328.3	291.9	290.6	295.6	295.7	295.1	278.7
37.5°	541.9	532.0	510.8	466.6	405.8	345.8	329.8	333.3	335.8	335.5	315.1
40°	630.7	620.9	603.0	560.4	501.0	425.3	386.9	386.9	387.1	385.4	360.9
42.5°	700.5	696.0	682.6	653.1	607.2	550.4	463.9	451.2	448.5	446.9	414.6
45°	745.8	741.1	733.9	727.7	712.9	692.5	567.3	534.0	529.7	513.3	474.1
47.5°	748.3	741.1	745.9	769.3	802.9	813.4	694.8	630.5	619.0	589.5	533.7
50°	692.5	693.2	712.0	768.8	859.5	919.4	830.1	736.7	718.5	659.4	586.3
52.5°	590.0	596.6	625.9	713.2	862.2	987.2	947.8	846.3	810.2	722.2	623.4
55°	461.9	467.9	515.7	610.2	797.2	996.9	1033.5	951.2	903.4	766.0	656.6
57.5°	326.6	338.0	397.3	484.1	673.3	922.9	1056.9	1013.9	967.7	808.6	687.8
60°	198.5	204.2	265.8	366.9	507.5	768.1	1029.5	1054.0	1016.6	845.5	717.0
62.5°	119.4	122.7	152.3	252.7	349.2	562.4	961.7	1072.4	1054.0	870.0	745.1
65°	70.6	72.8	86.7	152.6	232.6	345.0	815.2	1047.2	1062.0	891.2	761.5
67.5°	50.9	51.6	56.6	82.2	156.1	184.9	566.9	955.3	1010.9	898.2	751.8
70°	43.9	44.8	49.6	57.8	110.5	109.0	295.1	756.1	857.0	861.7	710.9
72.5°	33.2	34.7	42.7	54.3	79.3	77.5	111.2	450.9	581.8	707.4	612.8
75°	22.5	23.4	31.7	46.1	62.0	57.8	58.3	181.0	284.5	443.5	421.1
77.5°	14.2	14.9	19.4	33.1	53.1	40.7	41.2	64.3	102.7	188.0	180.5
80°	9.7	10.0	11.7	21.4	35.9	35.4	26.6	33.6	38.2	57.9	38.9
82.5°	5.8	5.8	7.7	12.7	21.7	28.1	16.7	18.5	20.4	21.5	8.9
85°	2.0	2.2	4.7	7.8	13.4	14.0	9.5	11.0	11.5	12.5	4.2
87.5°	0.8	0.7	2.5	4.3	5.7	6.5	5.5	5.0	5.5	7.3	1.8
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°	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5	198.5
2.5°	197.4	196.7	196.7	196.5	195.5	195.0	194.5	193.2	194.0	193.0	192.4
5°	196.4	195.9	195.0	194.2	191.9	189.9	189.0	187.4	187.2	185.9	185.2
7.5°	196.2	195.0	193.7	190.9	187.4	184.2	181.3	178.5	177.3	175.8	175.0
10°	195.4	193.9	191.4	186.9	181.7	176.7	170.3	162.5	156.6	153.3	152.8
12.5°	195.5	193.9	190.0	183.4	176.5	165.5	148.5	130.6	115.9	109.7	108.7
15°	196.9	195.0	189.2	180.2	168.5	144.3	113.1	85.7	66.6	59.8	58.3
17.5°	198.5	195.4	187.4	175.7	153.1	111.9	71.1	44.9	34.2	30.4	29.7
20°	199.5	195.2	184.4	168.8	129.7	74.8	38.7	26.4	23.2	22.4	22.0
22.5°	202.1	195.7	181.8	158.1	100.4	45.1	24.5	20.5	18.7	17.7	17.5
25°	207.2	199.0	182.0	144.3	70.3	27.2	19.9	16.7	15.0	14.0	13.7
27.5°	214.7	205.1	185.2	127.1	43.4	20.5	16.5	13.5	11.7	10.9	10.7
30°	224.3	212.4	188.9	104.7	27.1	17.2	13.4	10.5	9.2	8.7	8.5
32.5°	239.3	225.1	192.0	78.3	18.7	14.2	10.5	8.3	7.5	7.0	7.0
35°	264.2	247.0	197.2	52.4	14.9	11.4	8.5	6.8	6.2	5.8	5.8
37.5°	299.2	278.2	199.7	32.6	12.2	8.9	6.8	5.7	5.2	4.8	4.8
40°	342.0	316.1	196.2	20.2	10.2	7.2	5.7	4.8	4.3	4.2	4.2
42.5°	391.3	359.7	185.2	14.4	8.5	5.8	4.8	4.2	3.8	3.7	3.7
45°	446.4	407.4	165.3	12.0	7.2	5.0	4.2	3.5	3.3	3.2	3.2
47.5°	501.3	455.9	139.6	10.4	6.0	4.2	3.5	3.0	2.8	2.7	2.7
50°	549.2	498.3	112.4	9.0	5.0	3.7	3.0	2.5	2.3	2.2	2.2
52.5°	576.6	523.5	87.0	7.5	4.3	3.2	2.3	2.0	1.8	1.7	1.7
55°	606.2	544.5	65.0	6.3	3.5	2.7	1.8	1.5	1.3	1.2	1.2
57.5°	633.7	563.4	48.3	5.2	3.0	2.0	1.5	1.2	1.0	0.8	0.8
60°	660.4	579.4	35.7	4.2	2.5	1.7	1.2	0.8	0.7	0.5	0.5
62.5°	693.0	594.1	26.2	3.3	2.2	1.2	0.8	0.5	0.3	0.2	0.2
65°	717.2	601.7	19.7	2.5	1.8	0.8	0.5	0.3	0.0	0.0	0.0
67.5°	717.0	587.1	14.4	1.8	1.3	0.7	0.3	0.0	0.0	0.0	0.0
70°	683.5	543.0	10.0	1.5	1.0	0.5	0.2	0.0	0.0	0.0	0.0
72.5°	586.1	429.5	6.5	1.0	0.8	0.3	0.2	0.0	0.0	0.0	0.0
75°	395.6	218.1	3.8	0.8	0.7	0.3	0.2	0.0	0.0	0.0	0.0
77.5°	169.2	85.7	2.0	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
80°	35.4	20.7	0.8	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	3.0	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.3	0.2	0.2	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)