

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: P348849

Luminaire Tested: **ARCH-N-PA1-19-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 19
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

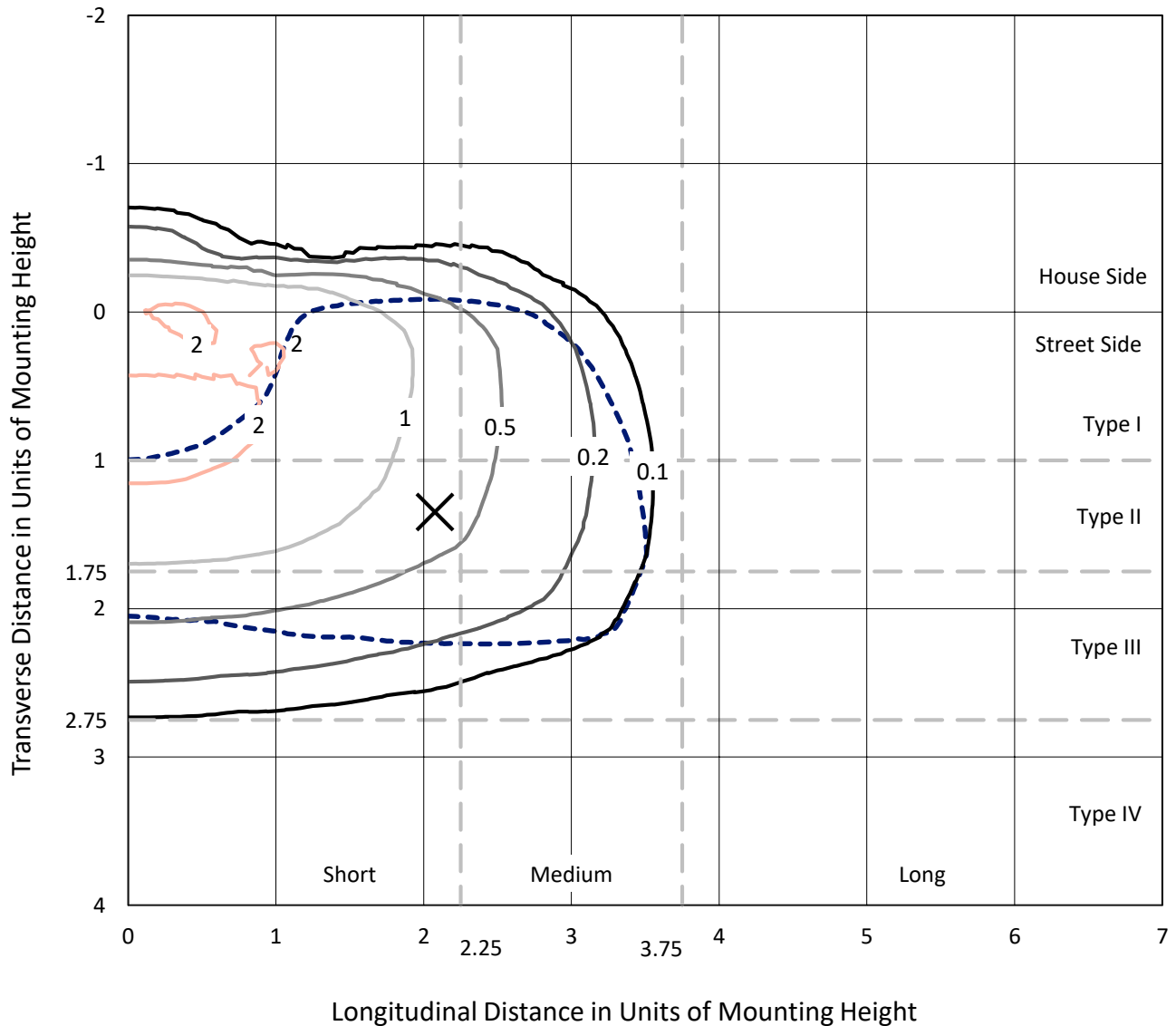


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

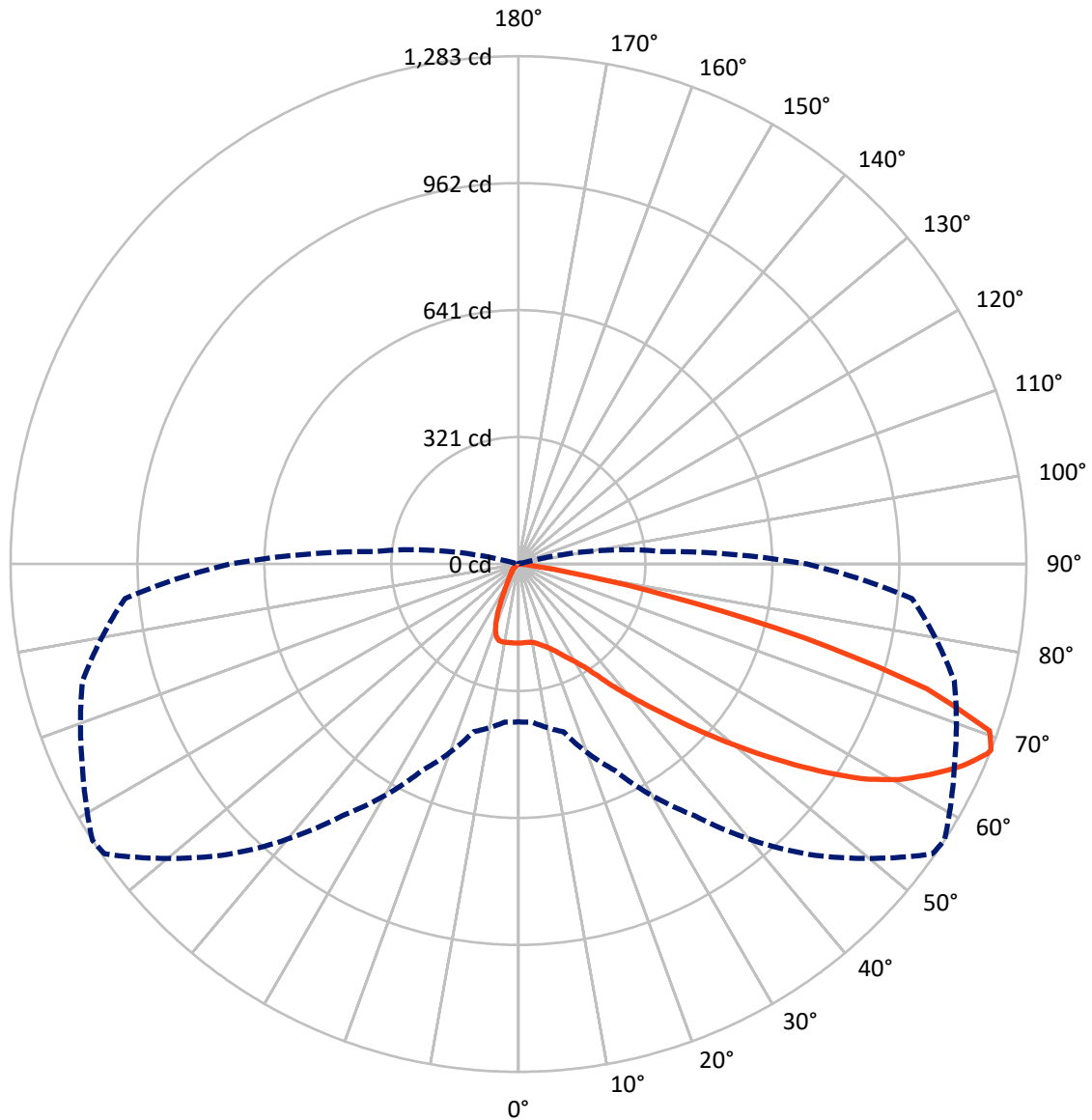


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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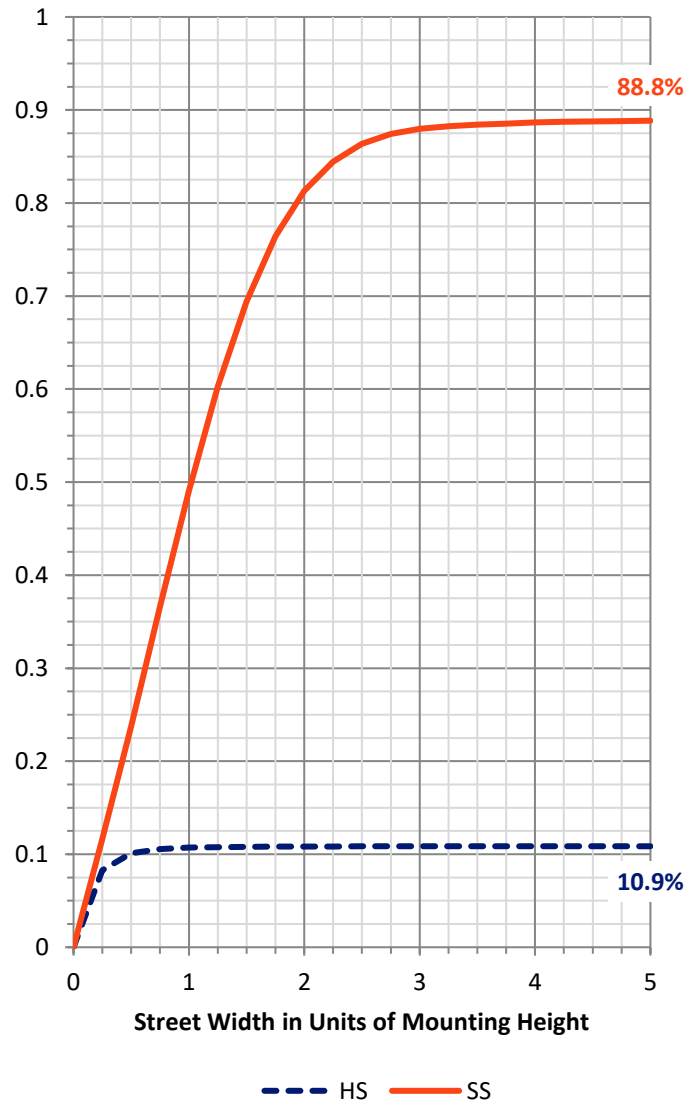
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	184.4	0.0	184.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1497.6	0.0	1497.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	1682.0	0.0	1682.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	1.1
10°-20°	51.8	3.1
20°-30°	89.4	5.3
30°-40°	154.3	9.2
40°-50°	264.0	15.7
50°-60°	422.3	25.1
60°-70°	488.0	29.0
70°-80°	186.5	11.1
80°-90°	7.0	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°	1682.0	100.0
0°-180°	1682.0	100.0



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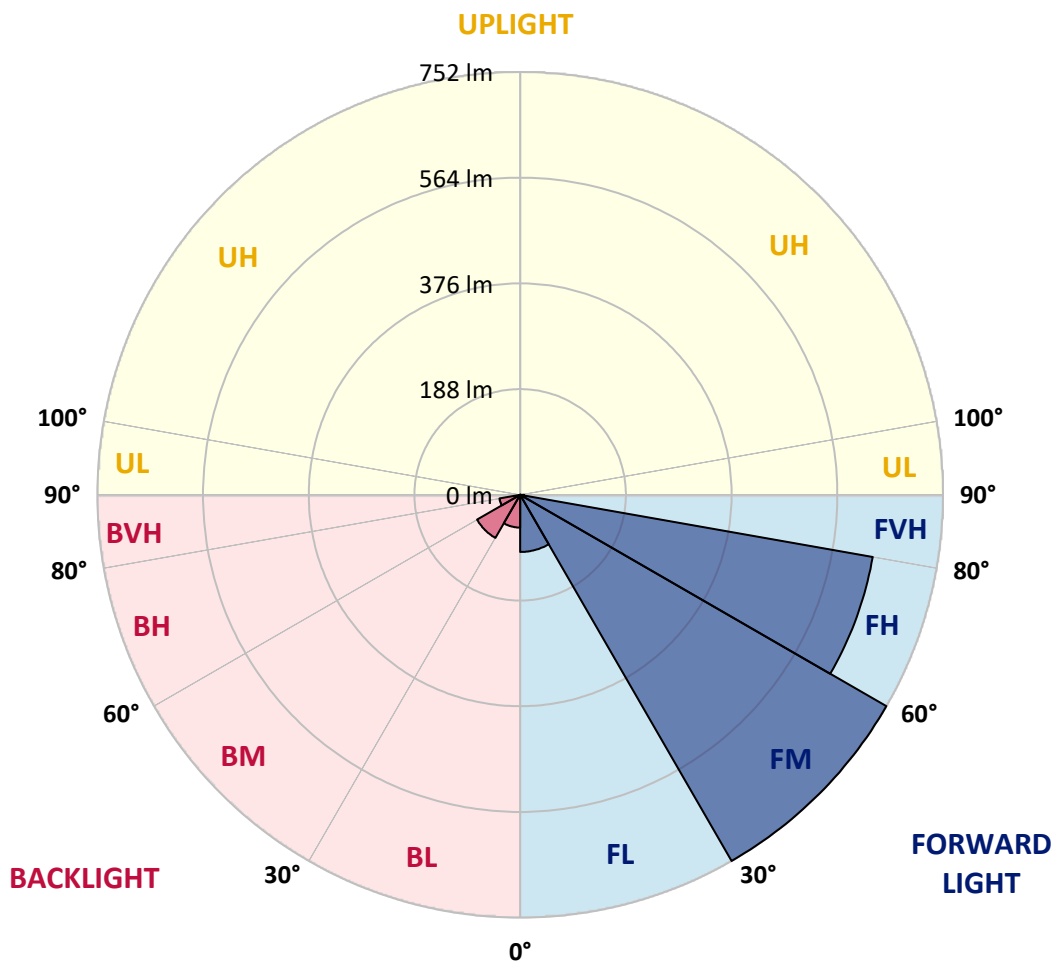
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	101.7	6.0			
FM	(30°-60°)	752.2	44.7			
FH	(60°-80°)	636.9	37.9			G0/660
FVH	(80°-90°)	6.9	0.4			G0/10
BL	(0°-30°)	58.3	3.5	B0/110		
BM	(30°-60°)	88.5	5.3	B0/220		
BH	(60°-80°)	37.6	2.2	B0/110		G0/110
BVH	(80°-90°)	0.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9
2.5°	195.2	196.0	196.7	197.1	197.6	198.6	198.9	199.4	199.6	199.6	200.2
5°	187.5	188.4	189.8	190.9	193.1	196.0	198.0	198.8	200.3	201.5	202.3
7.5°	180.3	181.4	183.0	185.6	189.4	194.1	198.4	199.5	202.3	205.0	206.3
10°	175.7	176.6	178.6	182.4	187.4	193.8	199.9	201.2	206.0	210.5	213.1
12.5°	174.1	174.9	177.0	181.3	187.5	195.0	203.4	205.4	212.4	219.0	222.5
15°	176.4	176.6	178.9	182.8	189.0	198.0	209.2	211.6	220.4	229.0	233.4
17.5°	185.3	184.6	185.8	187.5	192.4	201.9	215.3	218.9	230.6	240.7	245.0
20°	207.6	207.6	204.9	200.1	200.2	207.9	223.6	227.6	242.0	253.7	257.5
22.5°	245.7	245.0	239.6	227.9	217.1	218.3	233.7	238.9	255.7	268.2	269.5
25°	291.5	290.6	282.3	265.8	247.2	235.2	247.3	253.4	272.0	283.1	280.4
27.5°	340.0	339.3	331.0	310.6	284.1	262.1	263.7	269.4	288.6	299.5	291.2
30°	387.0	387.2	379.1	358.1	328.1	296.3	284.3	287.7	304.8	315.8	303.9
32.5°	431.7	432.0	424.9	401.5	373.5	336.2	313.0	312.1	323.5	334.4	320.8
35°	471.6	472.3	467.5	449.3	419.6	380.6	350.1	348.0	350.2	362.5	346.6
37.5°	510.0	510.4	506.8	491.4	466.6	429.3	397.0	394.1	389.5	398.9	380.7
40°	552.0	550.8	546.6	532.7	511.4	483.2	447.5	442.4	434.3	442.8	425.6
42.5°	591.2	589.8	590.5	574.8	556.8	538.5	506.2	497.5	492.8	502.5	480.6
45°	640.1	639.4	641.8	628.1	613.5	600.2	573.6	564.0	562.0	573.4	547.2
47.5°	688.4	690.1	697.5	691.7	685.8	674.1	644.9	640.6	641.9	655.7	617.4
50°	728.6	730.7	750.9	757.6	766.1	759.3	730.0	727.4	732.4	744.8	693.0
52.5°	757.7	761.9	787.1	817.9	848.9	853.5	824.4	822.0	828.7	830.6	751.3
55°	777.9	781.6	810.2	866.5	929.7	949.5	931.4	922.2	920.9	902.1	812.7
57.5°	781.5	781.1	822.1	897.9	993.0	1044.3	1032.8	1023.7	997.7	968.1	883.1
60°	761.3	763.6	811.2	908.8	1032.7	1115.9	1116.8	1105.0	1064.4	1032.3	951.4
62.5°	699.1	708.5	756.6	880.3	1032.3	1144.8	1178.4	1169.4	1120.8	1084.8	1020.6
65°	598.2	601.6	647.5	782.4	962.5	1132.7	1233.8	1230.5	1171.6	1135.9	1056.1
67.5°	436.9	429.6	477.8	616.1	814.9	1062.2	1273.6	1277.8	1210.8	1146.4	1018.3
68°	398.7	400.8	438.4	575.0	776.2	1037.3	1276.2	1282.6	1214.7	1139.5	997.6
70°	237.6	241.8	275.3	395.9	590.5	896.5	1247.9	1262.6	1191.5	1069.0	862.9
72.5°	60.7	65.6	97.3	177.2	337.3	631.6	1053.4	1078.3	1034.5	867.2	582.5
75°	25.0	26.2	34.8	58.4	125.7	284.6	694.3	747.6	717.1	519.2	263.3
77.5°	17.3	18.1	22.3	32.4	54.4	96.5	340.4	378.9	341.4	177.2	57.4
80°	12.4	13.1	16.0	21.6	31.3	34.4	110.9	128.3	101.9	38.9	14.2
82.5°	7.4	8.0	11.9	15.3	19.0	16.5	27.6	31.3	29.5	19.3	6.4
85°	3.7	4.3	8.0	11.0	10.3	6.9	8.4	9.4	11.6	11.8	3.4
87.5°	0.2	0.5	4.7	6.6	2.9	1.6	2.5	3.0	4.1	5.8	1.4
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°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9
2.5°	200.4	200.5	199.9	199.7	199.9	198.9	198.5	198.7	198.7	198.9	198.5
5°	202.4	202.4	201.5	200.2	199.5	197.6	196.4	196.1	195.9	195.7	195.4
7.5°	206.7	206.2	204.6	201.8	199.4	195.4	192.4	190.8	190.0	189.7	189.4
10°	213.6	212.8	210.0	204.8	199.3	192.2	185.6	180.9	177.0	175.4	174.5
12.5°	222.9	221.7	217.0	208.4	198.8	185.7	171.4	157.6	144.8	139.6	137.0
15°	233.7	231.8	224.4	211.4	195.5	171.0	139.9	115.8	98.1	91.4	88.5
17.5°	244.6	242.2	231.0	213.3	185.7	140.5	98.1	74.1	62.3	59.1	58.0
20°	255.5	252.0	236.6	211.9	163.6	101.3	64.7	54.2	50.7	49.8	49.5
22.5°	266.0	260.5	241.7	206.3	129.6	68.0	51.2	47.9	46.8	46.2	46.0
25°	275.0	267.5	246.2	189.1	91.7	51.4	46.1	45.0	43.6	42.6	42.6
27.5°	283.5	274.4	248.9	160.8	61.2	43.9	42.7	41.2	38.6	37.1	37.1
30°	293.8	283.6	250.8	123.8	45.0	38.8	37.9	35.6	32.0	30.0	30.0
32.5°	309.2	297.6	249.6	86.8	37.3	34.1	31.9	28.7	24.8	22.9	22.8
35°	332.8	319.2	240.5	56.9	32.9	29.7	26.1	22.2	18.8	17.2	17.1
37.5°	364.7	348.2	220.1	40.7	29.5	25.5	21.2	16.9	14.4	13.4	13.3
40°	405.9	381.8	191.0	33.0	26.3	21.6	16.4	13.1	11.4	10.6	10.7
42.5°	455.5	417.9	156.1	28.5	23.2	17.7	12.8	10.3	9.2	8.7	8.5
45°	510.5	453.4	119.5	25.4	20.1	14.3	10.0	8.2	7.3	7.0	7.0
47.5°	571.0	488.0	87.5	22.7	16.8	11.1	8.0	6.7	6.0	5.7	5.6
50°	626.0	512.0	63.1	19.8	13.8	8.7	6.5	5.6	5.1	4.8	4.8
52.5°	671.8	519.6	46.4	16.7	11.1	7.0	5.4	4.8	4.3	4.1	4.1
55°	712.1	516.5	34.5	13.8	9.0	5.7	4.6	4.1	3.7	3.4	3.4
57.5°	750.8	506.5	25.8	11.2	7.2	4.6	3.9	3.4	3.0	2.9	2.9
60°	782.4	489.8	19.2	9.1	5.8	3.7	3.3	2.8	2.5	2.2	2.2
62.5°	808.0	471.3	14.1	7.5	4.6	2.9	2.5	2.3	1.8	1.6	1.6
65°	808.1	440.7	10.6	6.2	3.6	2.3	1.9	1.8	1.2	1.0	0.9
67.5°	749.7	379.9	8.1	5.3	2.8	1.7	1.4	1.5	0.6	0.4	0.3
68°	728.4	364.5	7.6	5.2	2.6	1.7	1.4	1.5	0.6	0.3	0.2
70°	614.2	290.0	6.1	5.1	2.3	1.3	1.1	1.5	0.5	0.2	0.2
72.5°	392.8	168.3	4.5	4.1	1.7	1.0	0.7	1.4	0.5	0.2	0.1
75°	167.2	52.2	3.1	2.9	1.0	0.7	0.5	0.9	0.3	0.1	0.0
77.5°	35.2	11.8	1.8	1.7	0.7	0.5	0.3	0.2	0.1	0.0	0.0
80°	9.1	3.4	1.0	0.9	0.4	0.2	0.2	0.0	0.0	0.0	0.0
82.5°	2.9	1.4	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	0.8	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.2	0.1	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)