

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: P348673

Luminaire Tested: **ARCH-N-PA1-10-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1651 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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

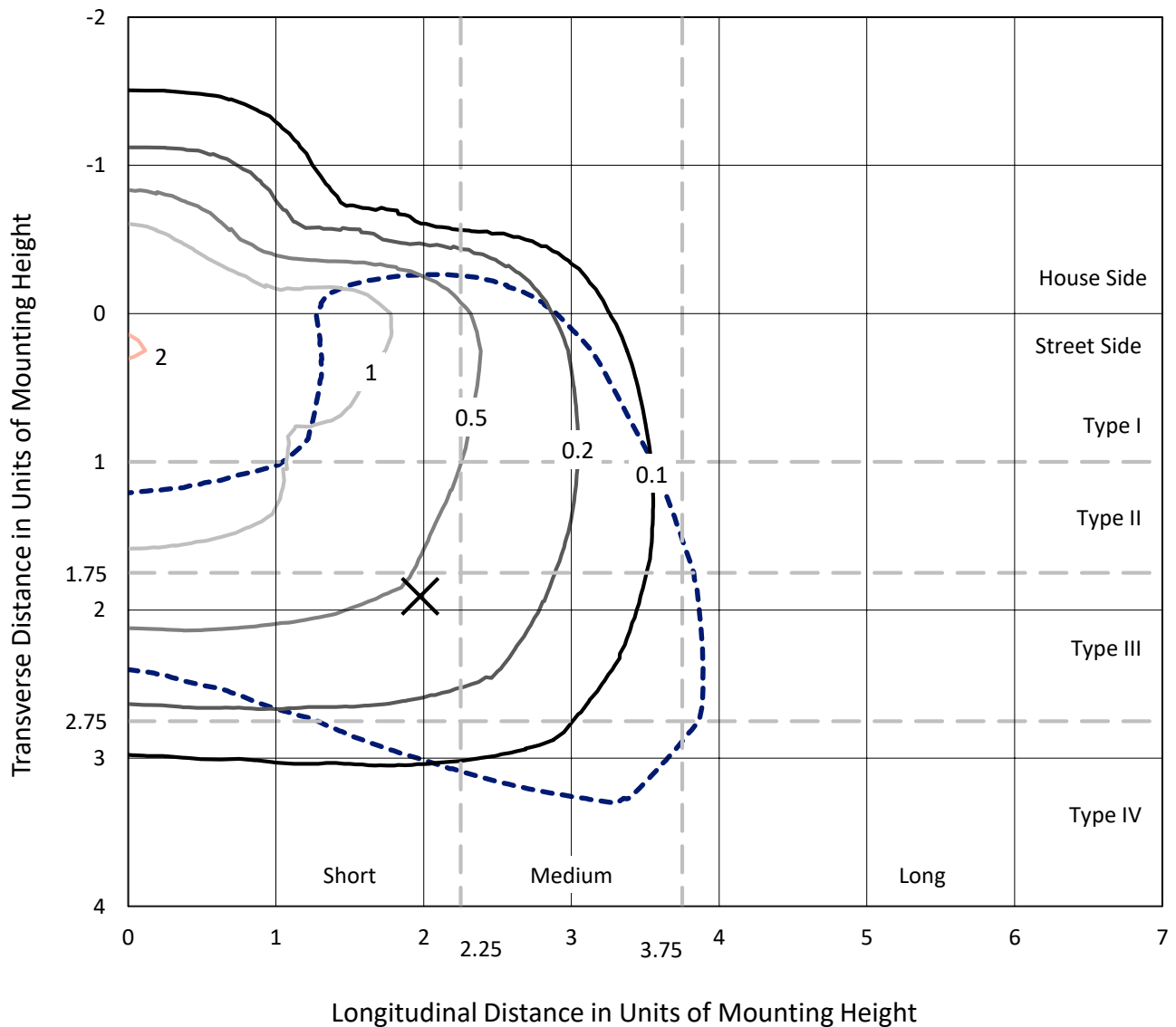


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Iso-Footcandle Lines of Horizontal Illumination

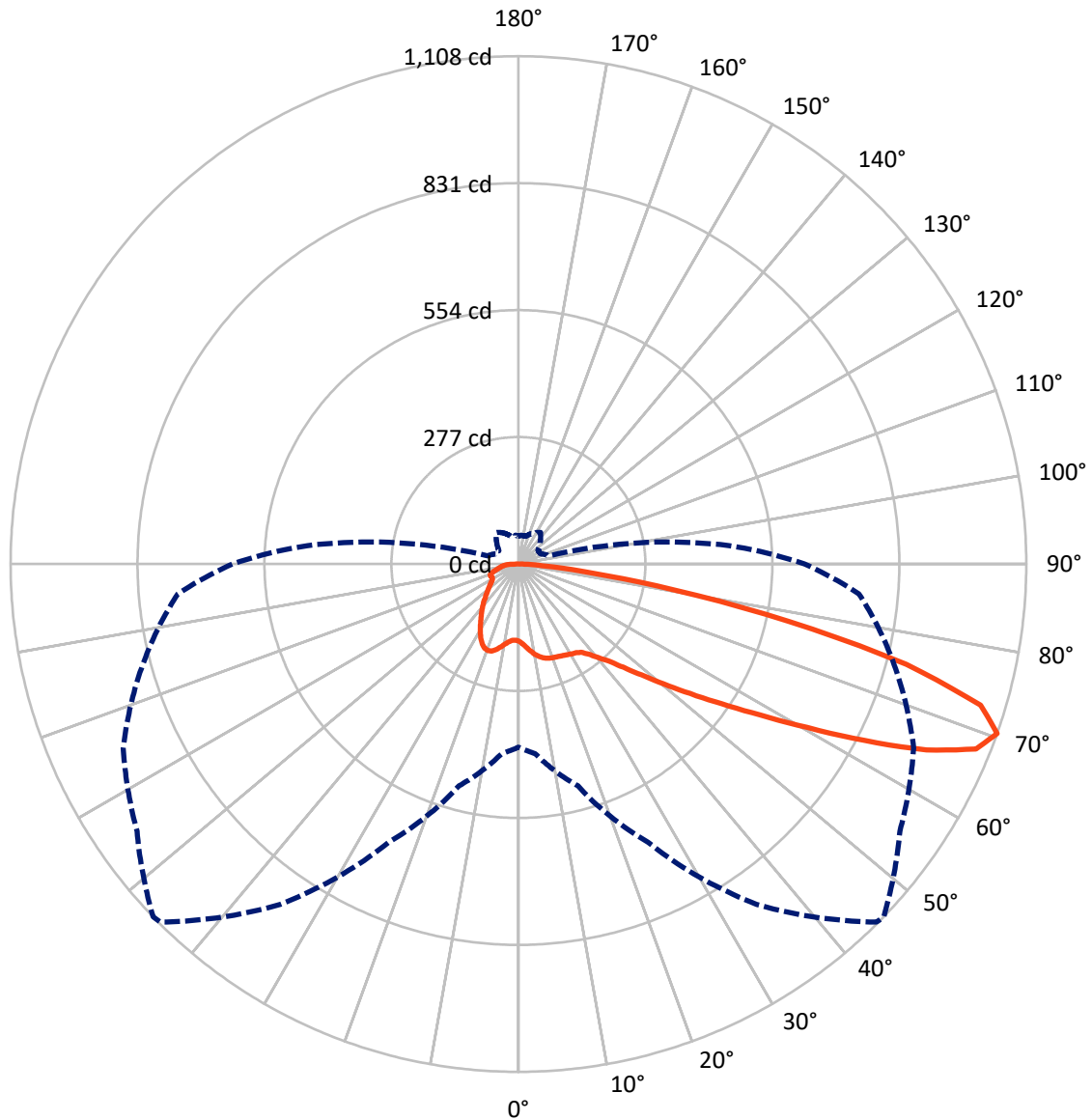
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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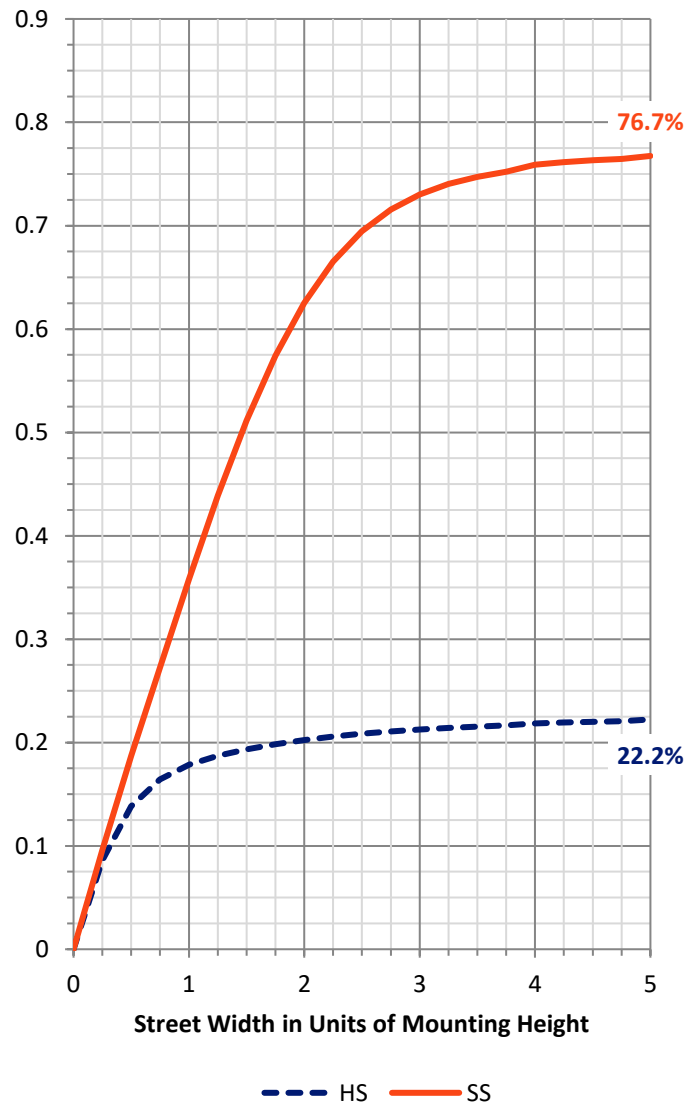
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.4	0.0	378.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	1272.6	0.0	1272.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	1651.0	0.0	1651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	1.0
10°-20°	57.1	3.5
20°-30°	95.3	5.8
30°-40°	135.2	8.2
40°-50°	198.8	12.0
50°-60°	336.7	20.4
60°-70°	478.0	29.0
70°-80°	290.4	17.6
80°-90°	42.4	2.6
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°	1651.0	100.0
0°-180°	1651.0	100.0

Coefficient of Utilization



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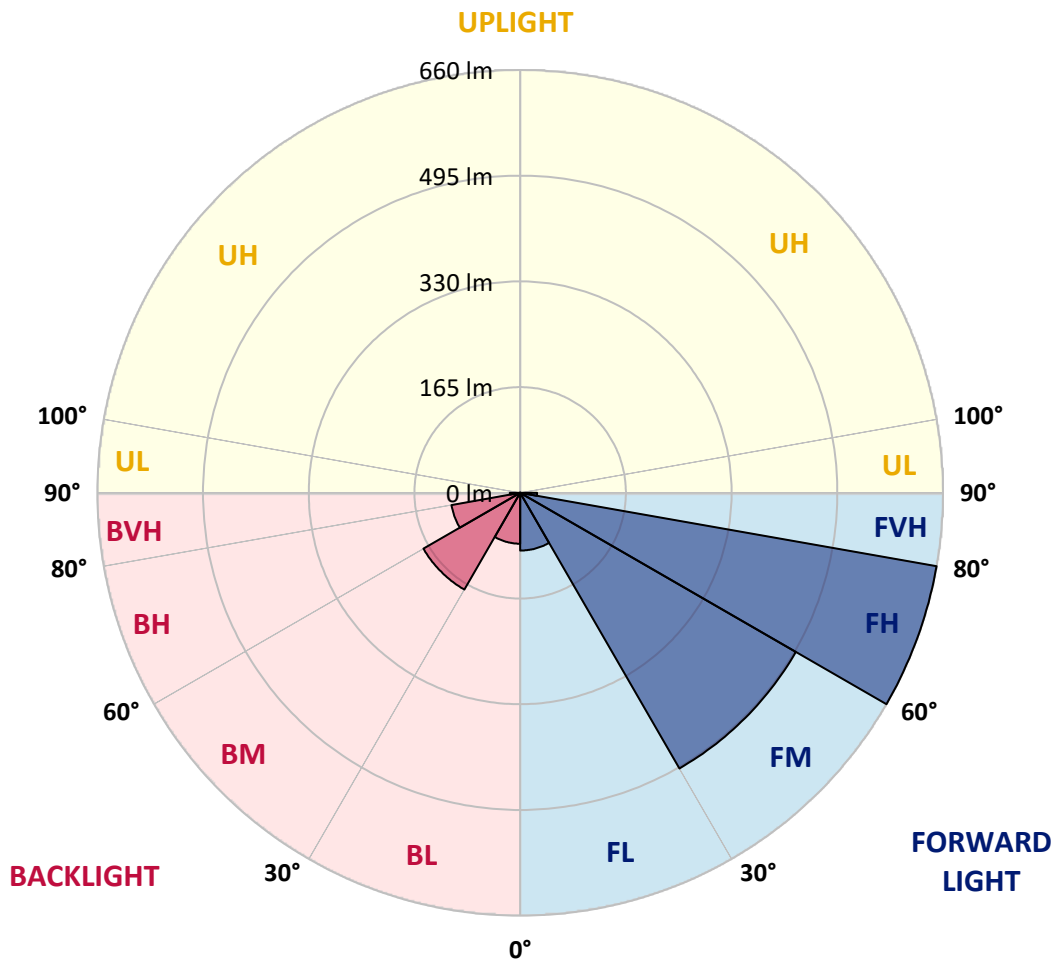
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.1	5.5			
FM	(30°-60°)	496.5	30.1			
FH	(60°-80°)	659.6	39.9			G0/660
FVH	(80°-90°)	26.4	1.6			G1/100
BL	(0°-30°)	79.4	4.8	B0/110		
BM	(30°-60°)	174.2	10.6	B0/220		
BH	(60°-80°)	108.8	6.6	B0/110		G0/110
BVH	(80°-90°)	16.0	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2
2.5°	176.6	176.7	177.0	176.4	174.8	174.4	174.2	172.6	171.5	169.9	168.5
5°	190.7	190.9	190.5	188.9	185.4	182.8	182.6	178.9	175.5	171.9	169.2
7.5°	205.5	205.7	204.6	201.6	196.7	192.2	191.9	186.8	181.7	176.2	172.1
10°	218.5	217.9	216.1	211.9	206.1	200.6	200.4	195.0	189.1	182.5	177.1
12.5°	227.2	226.7	224.4	219.3	213.0	207.9	207.4	202.5	196.7	189.5	183.0
15°	232.1	232.4	229.4	223.6	217.4	213.1	212.7	209.2	204.1	196.8	189.3
17.5°	232.7	233.0	230.1	224.4	219.3	216.3	216.2	213.9	210.1	203.1	195.3
20°	229.1	229.3	226.9	222.2	218.8	217.9	217.9	216.9	214.1	207.9	200.3
22.5°	223.8	224.0	222.2	218.8	217.7	219.1	219.5	219.1	217.1	211.3	204.2
25°	222.5	222.4	220.6	217.1	218.1	221.1	221.6	221.8	220.4	215.3	209.2
27.5°	228.8	228.4	224.9	219.4	220.0	223.6	224.3	225.9	225.1	220.6	214.8
30°	246.9	246.2	239.2	228.0	224.9	226.8	227.6	230.2	230.4	226.7	222.3
32.5°	277.5	276.7	264.0	244.0	233.2	230.0	230.8	234.7	236.8	233.9	229.2
35°	316.2	315.3	298.7	271.3	247.1	236.2	236.7	239.8	244.0	240.0	233.7
37.5°	356.6	354.3	338.3	303.4	269.2	249.3	249.3	249.7	251.7	243.2	239.1
40°	396.7	394.4	379.9	341.2	297.8	270.1	268.8	260.0	258.4	251.1	249.7
42.5°	434.0	433.3	424.8	383.8	331.4	290.5	288.7	273.8	274.1	269.6	269.7
45°	473.7	473.7	466.7	426.9	370.5	323.2	321.4	299.6	303.0	300.9	305.9
47.5°	506.0	507.0	506.1	471.7	416.0	364.9	361.6	335.3	344.8	351.9	366.6
50°	539.1	540.7	540.8	520.9	470.9	414.4	410.7	382.7	403.9	424.4	453.2
52.5°	587.0	590.6	576.4	570.0	538.3	473.1	469.5	443.6	479.0	507.9	557.4
55°	631.5	628.4	618.3	622.2	610.4	540.0	537.3	514.6	562.8	600.3	664.6
57.5°	655.6	655.4	665.5	682.5	688.1	622.5	620.2	598.2	657.2	685.4	765.3
60°	683.8	684.2	709.4	747.9	771.2	725.3	724.2	707.5	748.9	764.8	844.2
62.5°	687.8	694.9	738.3	804.5	848.9	845.3	847.5	806.0	830.9	828.2	903.1
65°	642.3	651.7	730.2	821.6	926.2	976.5	978.6	905.0	895.6	882.4	924.2
67.5°	549.1	563.0	648.3	784.4	951.7	1073.5	1076.5	981.8	949.3	900.7	873.5
70°	399.6	415.0	500.9	669.9	906.3	1104.5	1107.9	1015.8	951.3	848.5	745.6
72.5°	241.4	253.5	324.3	493.2	764.9	1048.0	1054.0	972.7	868.5	718.7	550.6
75°	106.0	113.9	156.8	284.2	547.6	867.1	874.5	832.6	705.7	522.3	325.4
77.5°	45.1	47.4	64.3	123.5	309.6	592.5	602.7	608.4	478.8	284.2	137.5
80°	28.1	29.0	36.4	55.9	144.9	332.8	343.8	357.9	237.8	104.5	48.0
82.5°	17.1	18.1	24.2	33.8	75.4	150.9	156.1	166.1	92.3	45.1	24.9
85°	10.3	11.0	14.8	21.4	42.9	59.3	59.3	65.5	43.4	29.0	13.1
87.5°	4.9	5.5	7.9	11.1	21.6	22.3	20.8	23.6	26.4	19.0	6.6
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°	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2
2.5°	168.1	167.9	167.1	166.6	166.5	166.1	165.8	166.0	166.2	166.3	166.3
5°	168.0	167.4	166.5	166.1	166.6	167.2	168.1	169.2	169.9	170.4	170.7
7.5°	170.7	169.6	168.5	168.3	169.3	171.1	173.0	175.4	177.0	178.1	178.4
10°	175.3	173.8	172.7	173.0	174.8	177.4	180.1	183.1	185.6	187.1	187.2
12.5°	180.5	179.1	178.0	179.0	182.0	185.2	188.0	190.6	192.9	194.4	194.4
15°	186.5	185.4	184.3	186.5	190.5	193.3	194.5	195.8	197.1	198.2	198.0
17.5°	192.2	191.3	190.6	193.2	197.5	198.8	198.0	197.0	197.0	197.6	197.8
20°	197.2	196.3	196.7	199.3	201.5	200.1	197.2	194.1	192.9	193.2	193.6
22.5°	201.5	201.1	202.3	203.5	201.9	197.2	191.8	187.6	186.1	186.0	186.1
25°	206.6	206.6	208.0	205.9	198.9	190.1	182.8	178.8	178.0	178.7	179.8
27.5°	213.0	213.6	214.3	206.5	192.7	179.4	172.0	169.3	170.1	171.8	172.8
30°	221.0	222.7	221.1	205.0	183.7	167.2	160.2	159.4	161.7	164.0	165.2
32.5°	228.9	231.5	227.7	201.4	172.2	154.3	148.8	148.6	151.4	153.7	155.3
35°	235.2	240.5	232.6	194.1	158.9	142.4	138.4	136.8	137.9	140.5	142.3
37.5°	243.5	252.2	236.0	183.0	144.4	132.6	127.9	124.4	123.5	124.5	125.4
40°	258.6	270.1	237.6	167.4	130.3	122.7	118.0	112.8	109.3	106.7	106.7
42.5°	283.2	293.5	236.6	148.5	117.2	113.1	107.7	101.8	96.1	90.2	89.7
45°	323.2	328.2	233.5	128.5	105.8	103.1	98.0	92.1	84.4	77.7	77.1
47.5°	387.2	376.2	228.8	111.1	95.7	94.5	89.9	83.1	74.9	69.6	69.1
50°	474.5	445.5	226.5	97.2	86.7	87.1	83.3	76.1	68.4	64.4	64.0
52.5°	578.9	526.3	230.9	86.4	79.6	80.7	77.9	71.1	64.7	61.6	61.1
55°	687.2	609.9	235.7	78.6	72.8	75.1	74.1	68.5	62.7	59.8	59.4
57.5°	779.9	672.3	226.1	72.3	66.7	70.3	71.2	66.9	61.7	59.1	58.6
60°	838.3	697.5	200.9	66.4	61.9	66.6	69.5	66.4	62.1	61.9	61.5
62.5°	866.0	695.2	163.1	61.7	58.9	64.9	70.7	69.0	66.6	68.6	68.8
65°	853.6	662.0	121.5	58.6	56.8	65.5	74.5	73.8	67.9	69.9	70.2
67.5°	771.8	582.8	90.0	55.9	54.4	67.3	81.2	75.4	65.4	66.8	65.9
70°	623.8	462.0	69.4	52.8	52.0	67.1	84.3	74.4	62.6	62.9	60.5
72.5°	430.1	315.1	56.4	50.0	48.5	61.1	82.2	72.0	60.3	57.7	54.5
75°	233.9	169.1	48.0	47.1	42.3	53.7	78.2	70.3	58.2	54.7	52.9
77.5°	92.0	70.2	41.6	43.1	37.0	47.4	73.8	67.1	55.3	50.8	49.9
80°	37.6	35.8	34.5	37.2	31.8	41.5	68.5	63.3	51.9	47.1	45.3
82.5°	21.3	22.3	26.8	29.4	25.8	38.2	65.9	60.3	47.7	42.2	40.1
85°	10.9	13.1	18.7	21.1	19.0	32.5	60.7	52.8	38.3	32.3	32.5
87.5°	5.3	7.3	11.8	13.2	12.3	23.5	45.4	38.3	29.8	23.6	22.9
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)