

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: P348953

Luminaire Tested: **ARCH-N-PA1-10-827-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
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-T2U
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: 1650 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 II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

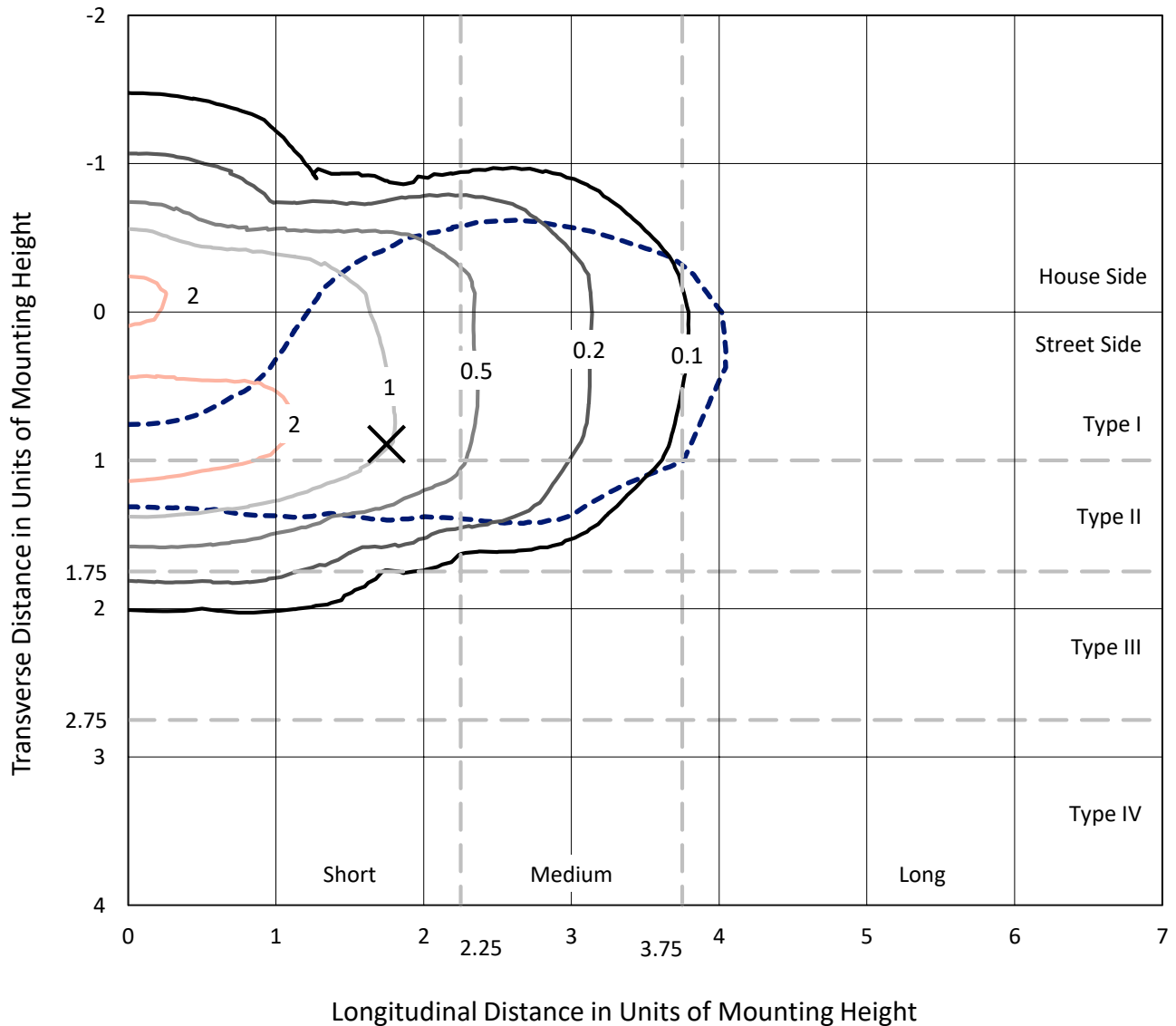
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

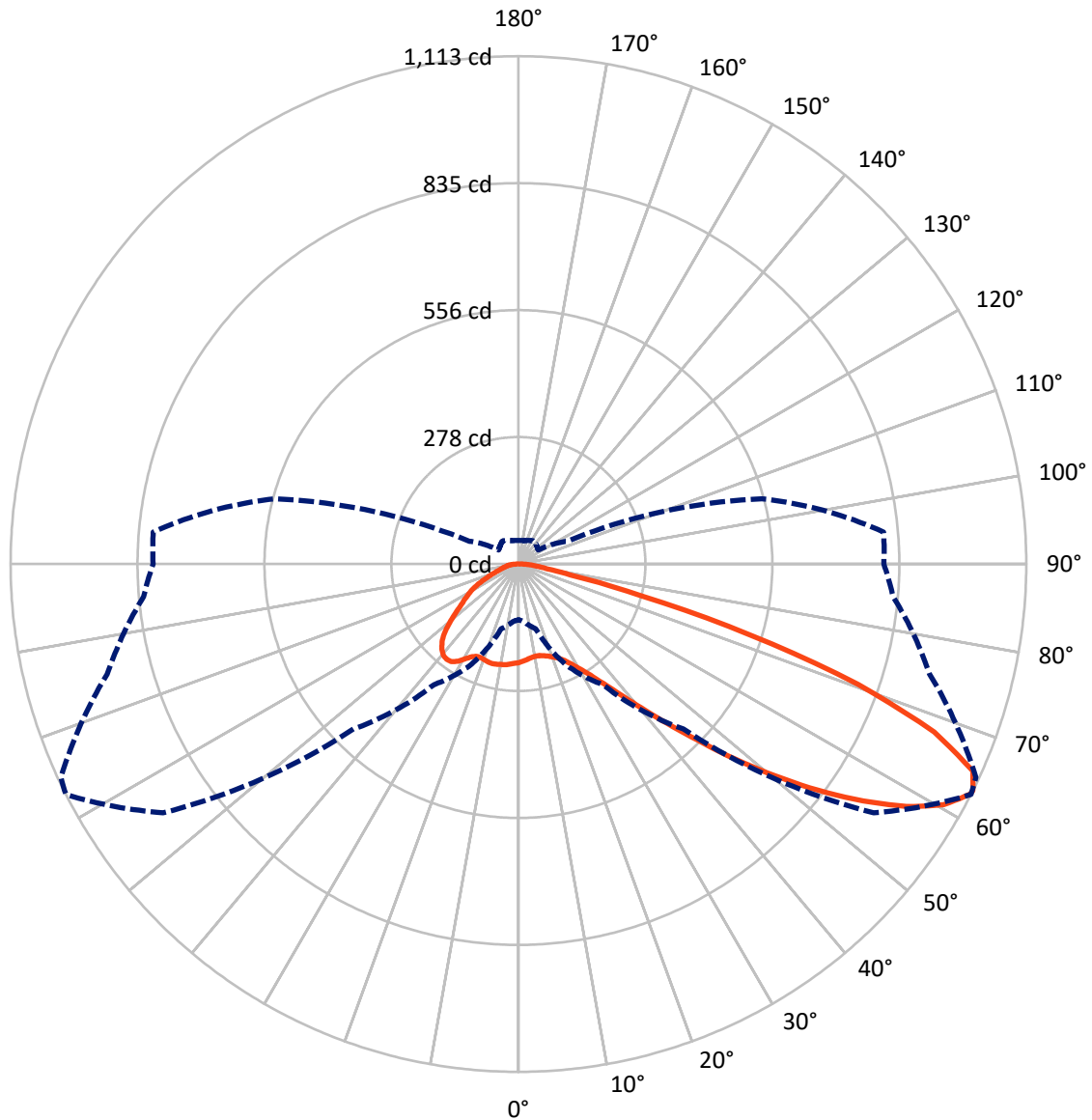


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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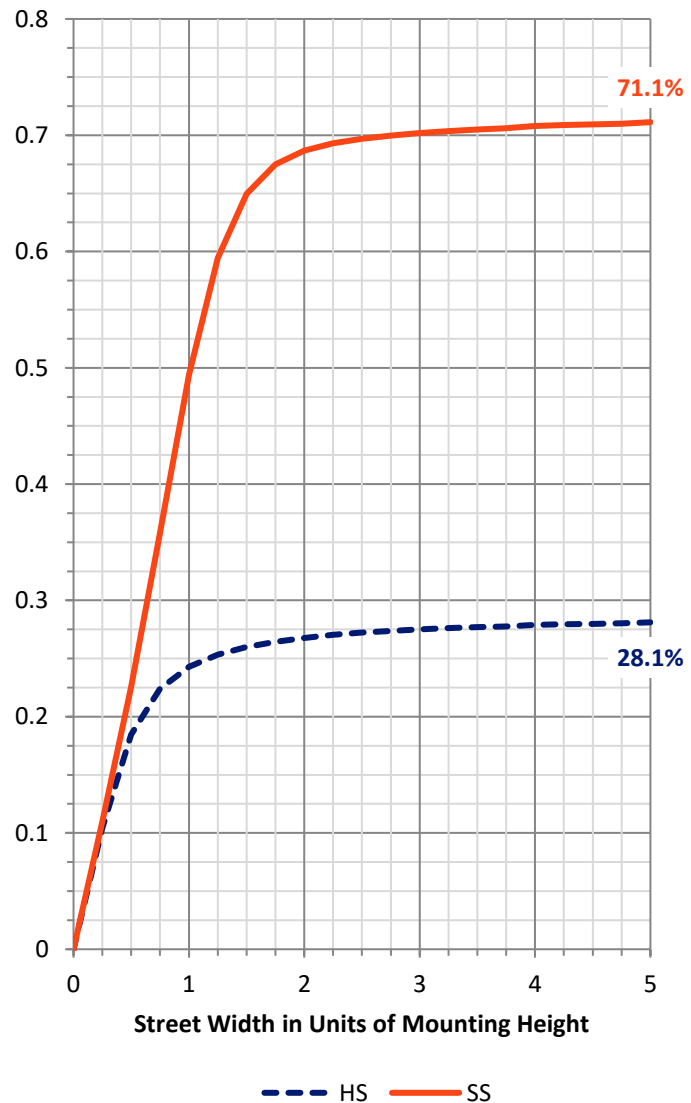
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.1	0.0	471.1
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1178.9	0.0	1178.9
	% Fixture	71.5	0.0	71.5
Total	Lumens	1650.0	0.0	1650.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	1.2
10°-20°	60.5	3.7
20°-30°	106.2	6.4
30°-40°	179.0	10.9
40°-50°	313.6	19.0
50°-60°	405.4	24.6
60°-70°	350.9	21.3
70°-80°	182.2	11.0
80°-90°	31.7	1.9
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°	1650.0	100.0
0°-180°	1650.0	100.0



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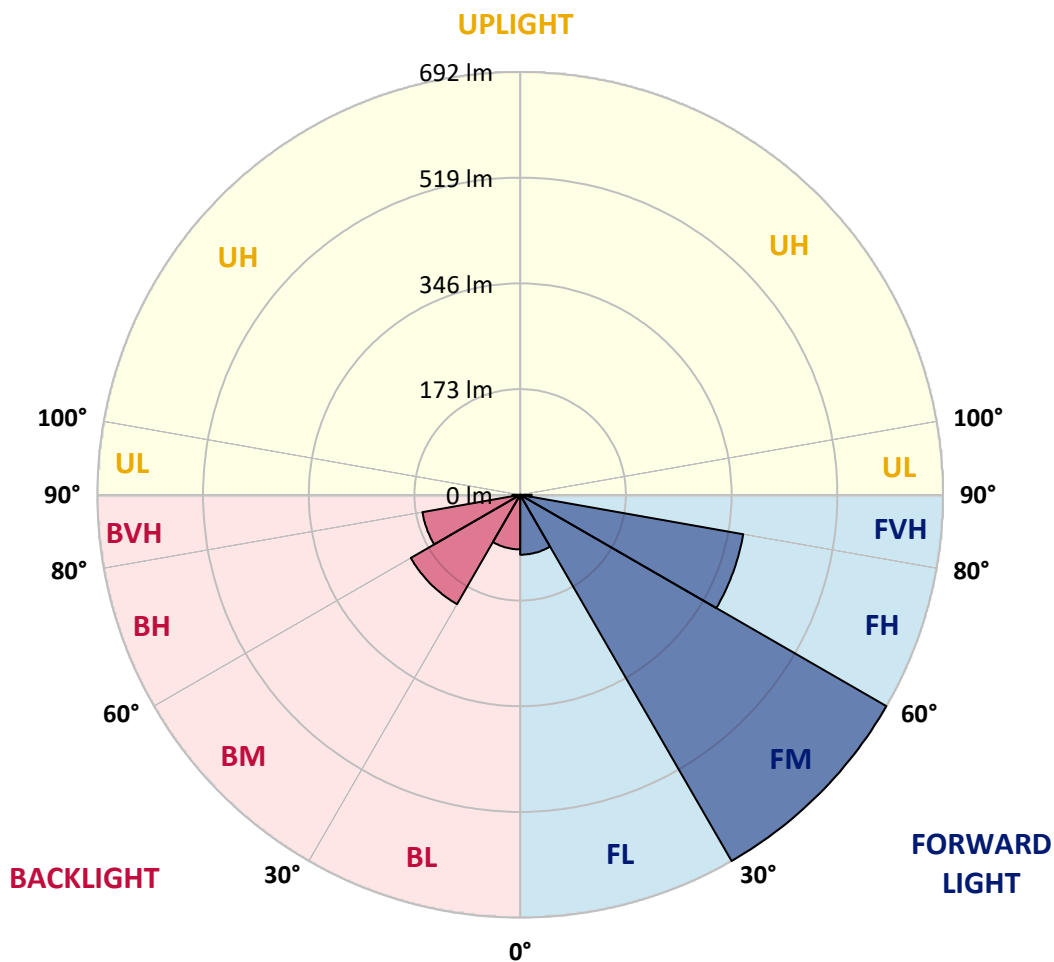
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.0	5.9			
FM	(30°-60°)	691.5	41.9			
FH	(60°-80°)	370.5	22.5			G0/660
FVH	(80°-90°)	18.9	1.1			G1/100
BL	(0°-30°)	89.2	5.4	B0/110		
BM	(30°-60°)	206.5	12.5	B0/220		
BH	(60°-80°)	162.5	9.8	B1/500		G1/500
BVH	(80°-90°)	12.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	210.9	210.3	211.4	211.9	211.7	212.6	212.6	212.8	212.8	213.6	214.3
5°	204.8	204.5	205.5	206.3	206.9	208.3	209.2	209.7	210.2	211.2	213.1
7.5°	198.9	198.4	200.0	200.6	201.5	203.5	205.7	206.9	207.5	209.9	212.5
10°	194.1	194.0	195.2	195.8	196.9	199.8	202.9	205.5	206.0	209.1	211.6
12.5°	191.8	191.5	192.9	193.6	195.5	199.0	202.6	205.8	206.6	210.2	212.3
15°	193.6	194.0	195.2	195.3	197.5	201.2	205.2	208.5	209.2	212.8	214.3
17.5°	202.4	202.3	203.1	202.8	203.5	205.4	209.7	212.3	213.3	215.9	217.1
20°	218.3	217.9	218.5	216.5	213.1	212.2	214.8	217.7	218.0	219.6	218.8
22.5°	242.6	243.1	241.7	236.6	228.4	224.5	222.8	223.8	224.8	224.7	222.4
25°	274.2	275.8	273.2	264.2	250.5	241.5	235.3	233.9	234.7	232.6	229.0
27.5°	315.8	317.0	311.3	297.4	278.9	265.6	253.2	248.5	248.5	243.8	237.3
30°	361.5	362.3	353.2	335.6	314.1	294.3	276.1	266.8	266.1	257.0	246.8
32.5°	417.1	414.9	404.1	382.3	355.3	328.1	304.7	290.6	289.1	275.3	262.4
35°	488.9	488.9	466.5	441.6	408.7	374.2	343.3	321.5	320.0	304.4	287.5
37.5°	566.9	566.6	546.3	512.1	472.7	430.4	389.1	362.0	358.4	341.7	322.9
40°	644.5	641.9	625.6	593.0	551.0	502.6	445.8	414.2	412.5	388.7	365.0
42.5°	701.4	698.9	691.2	669.4	641.8	606.9	519.5	476.7	474.2	444.3	415.4
45°	732.7	729.2	728.1	728.4	731.5	731.3	610.4	550.7	542.0	507.3	468.8
47.5°	725.6	717.3	728.4	757.0	805.0	836.5	716.4	638.5	622.5	572.7	525.8
50°	668.3	664.3	688.1	746.3	845.0	919.0	832.9	729.8	707.1	634.7	579.7
52.5°	567.8	575.5	604.9	687.6	837.7	968.8	938.9	824.6	793.1	693.7	626.5
55°	452.0	461.7	503.1	590.8	770.6	969.4	1015.3	916.5	888.4	754.6	674.4
57.5°	328.9	342.7	394.4	474.8	652.7	903.2	1053.0	1002.5	970.4	814.7	721.1
60°	206.6	216.3	272.7	366.0	498.9	757.0	1043.6	1071.4	1044.8	871.4	774.6
62.5°	133.1	137.7	162.1	261.3	347.9	555.1	973.9	1110.9	1099.5	923.1	814.9
63°	122.0	126.0	146.9	241.5	322.6	511.4	950.5	1112.9	1106.1	932.8	824.3
65°	87.2	91.6	102.4	166.0	238.1	343.1	814.4	1094.2	1101.8	949.1	837.1
67.5°	68.9	70.3	75.2	100.8	168.9	194.9	548.0	982.6	1015.8	931.8	818.1
70°	61.6	62.7	68.3	77.4	127.9	126.3	285.8	790.0	858.7	872.8	770.2
72.5°	53.7	54.5	61.3	72.9	97.6	96.5	124.3	531.2	614.7	764.7	704.0
75°	44.5	45.2	51.0	64.7	82.6	76.3	77.8	277.6	352.4	599.5	617.4
77.5°	36.6	37.1	41.8	52.0	72.7	58.8	60.2	116.7	171.3	408.6	487.5
80°	26.6	26.7	31.2	39.5	55.6	53.1	44.8	63.6	77.7	223.9	306.7
82.5°	18.5	18.7	23.3	27.6	38.3	53.0	32.6	42.6	46.6	103.2	136.5
85°	13.0	12.7	15.9	18.2	24.2	32.1	24.9	27.3	28.9	44.6	36.8
87.5°	5.7	5.6	9.0	9.7	12.2	14.8	19.8	14.4	15.3	21.6	11.6
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°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	214.5	215.1	216.0	217.4	218.5	219.0	219.9	220.0	221.4	220.2	220.4
5°	214.2	215.0	217.0	219.4	221.1	222.4	224.7	225.5	226.8	226.2	226.1
7.5°	213.7	215.1	218.0	221.6	224.2	226.2	228.4	229.8	231.2	230.9	230.5
10°	213.1	214.8	219.0	222.5	226.2	228.4	229.9	230.1	230.5	230.2	229.5
12.5°	213.6	215.4	220.2	223.8	227.6	229.2	228.7	226.4	224.4	222.7	222.4
15°	215.1	217.3	221.7	225.0	228.1	227.2	224.4	219.3	215.6	213.4	213.6
17.5°	216.7	218.5	221.9	224.5	226.1	223.3	219.0	214.6	212.9	211.2	210.9
20°	218.0	218.3	220.5	222.8	222.7	220.5	216.5	211.2	207.8	205.1	205.2
22.5°	220.2	219.0	219.1	220.5	222.2	220.2	210.8	201.7	196.6	193.3	193.2
25°	225.1	222.5	220.0	220.8	227.3	214.5	198.6	186.7	182.2	179.3	179.6
27.5°	231.9	228.4	223.4	227.6	231.2	203.2	181.1	168.9	165.8	162.8	163.5
30°	239.4	234.3	228.2	242.3	226.8	185.3	159.5	148.4	145.6	142.7	143.3
32.5°	252.6	245.1	237.2	259.9	216.8	163.5	136.8	126.8	124.9	123.1	123.2
35°	274.7	265.8	257.3	273.3	203.8	140.8	116.4	109.3	107.8	105.6	105.6
37.5°	307.3	293.2	288.8	280.4	186.1	119.7	101.5	96.7	93.4	90.5	90.5
40°	345.1	328.5	324.9	282.6	162.9	102.1	91.0	86.8	82.5	78.1	78.4
42.5°	391.1	368.6	360.4	279.7	134.8	90.8	83.5	78.8	74.6	70.9	70.3
45°	443.0	414.5	393.8	271.2	109.3	83.8	78.8	73.0	67.8	64.5	63.9
47.5°	496.0	464.2	423.3	254.2	91.4	78.9	75.5	67.5	63.8	61.6	61.3
50°	546.6	513.4	447.7	227.5	81.1	75.4	70.7	64.9	61.8	59.9	59.8
52.5°	591.6	560.2	468.2	199.8	74.1	72.4	68.6	63.6	60.4	58.7	58.4
55°	634.4	607.6	488.6	175.1	68.1	67.5	67.5	62.4	58.8	57.3	57.0
57.5°	681.3	661.5	509.1	157.0	62.7	63.9	66.1	61.0	57.1	55.7	55.6
60°	735.5	723.9	530.7	141.1	57.9	60.1	64.1	59.1	55.1	54.0	53.7
62.5°	790.9	791.2	549.4	122.0	53.9	57.1	61.8	57.4	53.3	52.5	52.3
63°	800.7	803.4	552.1	117.8	53.0	56.5	61.2	56.8	52.8	52.0	51.9
65°	824.6	836.8	554.2	100.2	49.6	54.2	58.8	54.8	50.8	50.6	50.3
67.5°	818.9	838.8	540.8	78.6	45.7	51.0	55.6	51.9	48.3	48.3	47.7
70°	776.3	789.2	499.5	60.7	42.8	47.6	51.7	48.8	45.1	45.4	44.2
72.5°	710.9	696.7	410.9	47.4	39.2	43.7	47.3	44.8	41.5	41.2	39.8
75°	615.2	568.4	294.3	38.3	34.9	38.6	42.3	40.5	37.5	35.8	35.5
77.5°	468.8	403.5	176.3	32.4	31.2	34.3	36.6	35.2	32.9	30.9	31.0
80°	279.2	232.7	79.5	27.5	27.0	29.3	31.2	30.1	28.6	26.1	25.5
82.5°	113.0	90.0	35.7	22.2	22.9	24.6	26.3	25.3	24.1	23.5	19.9
85°	29.3	28.3	20.8	16.7	17.6	18.4	20.7	20.7	19.6	16.1	14.8
87.5°	8.3	11.1	11.6	10.5	11.9	12.0	14.4	14.4	14.7	9.9	9.0
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)