

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: P348954

Luminaire Tested: **ARCH-N-PA1-19-827-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348954
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-PA1-19-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213 lumens
Efficiency: N/A
Efficacy: 116.5 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): 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

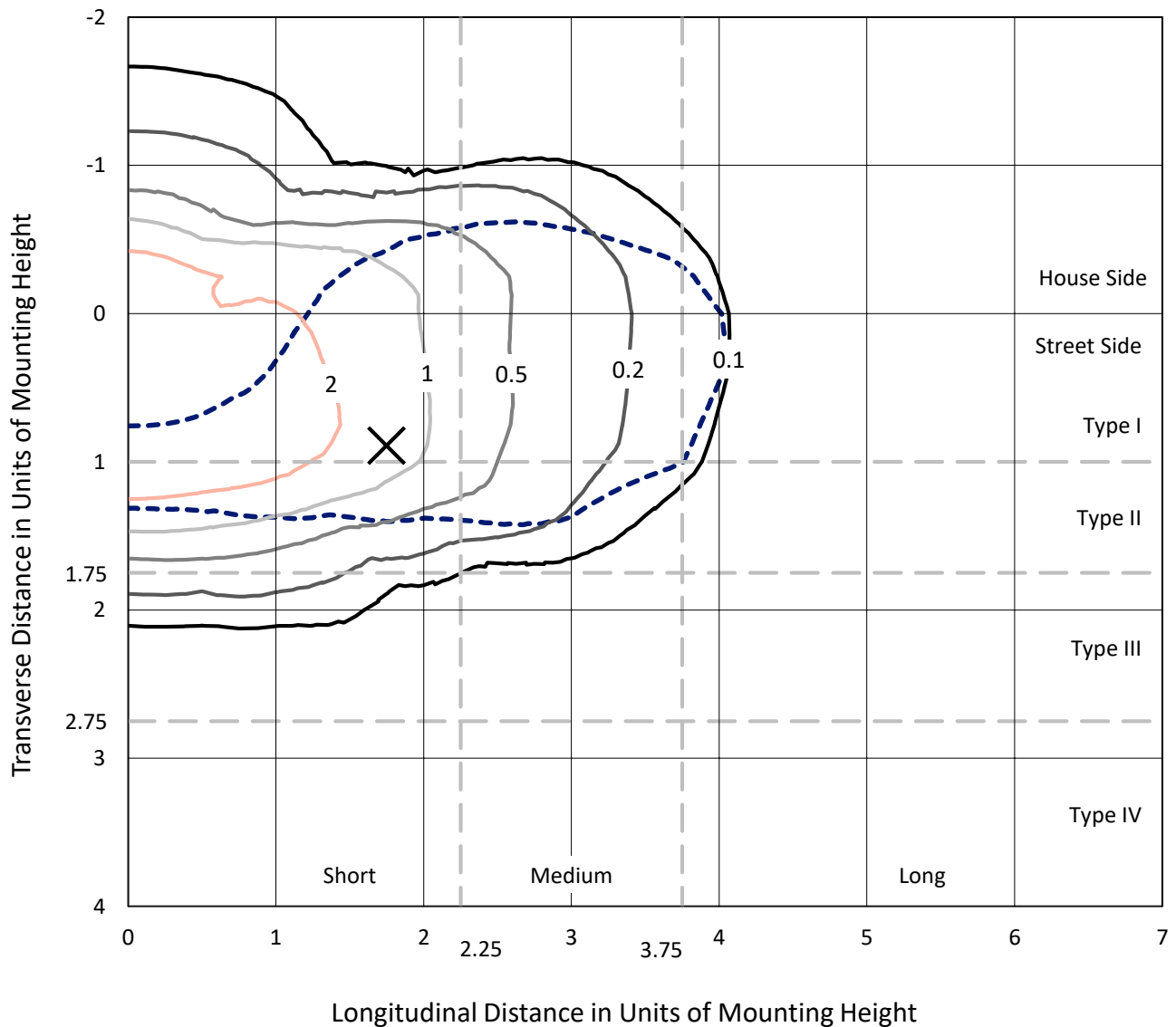


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

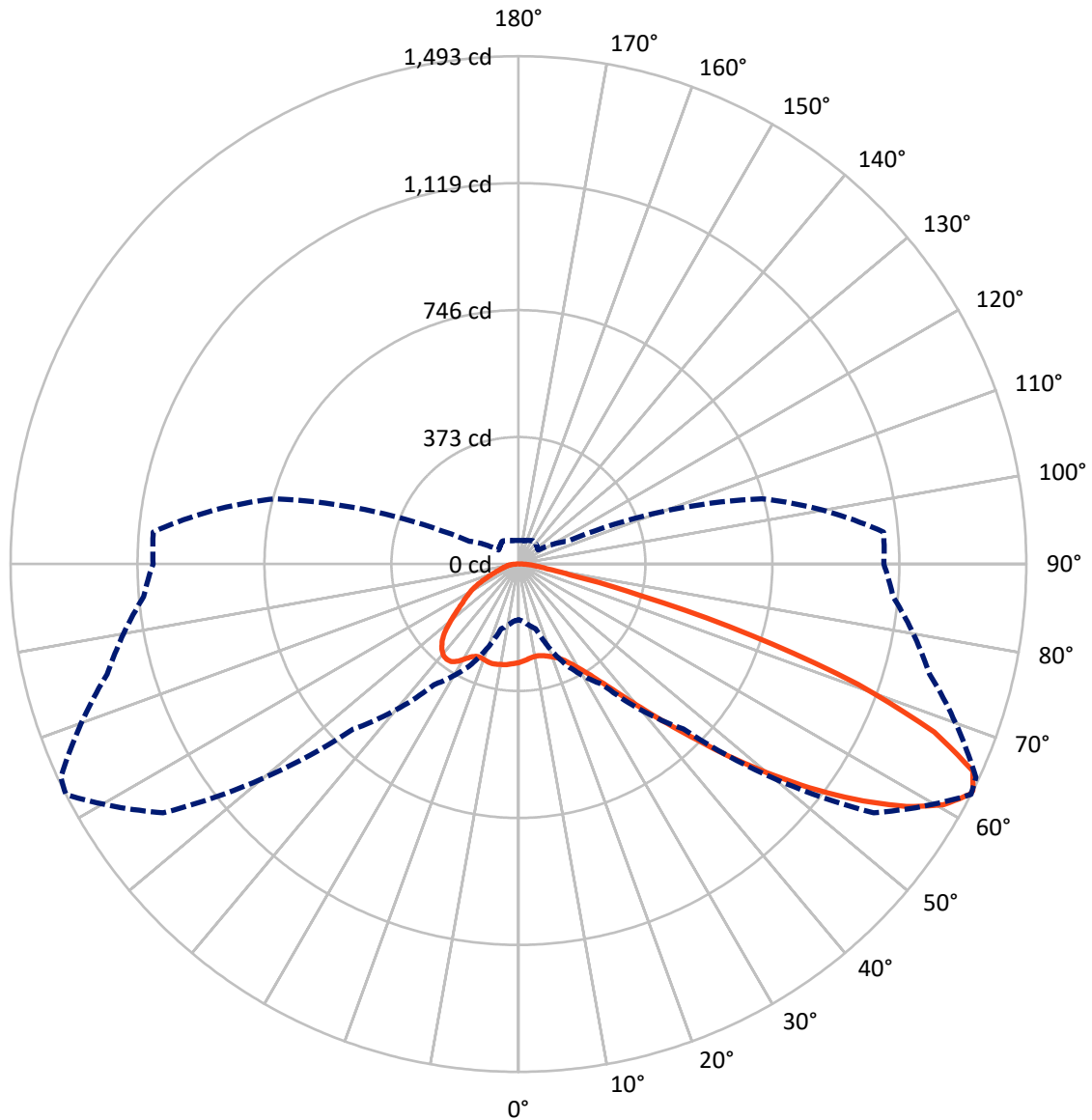


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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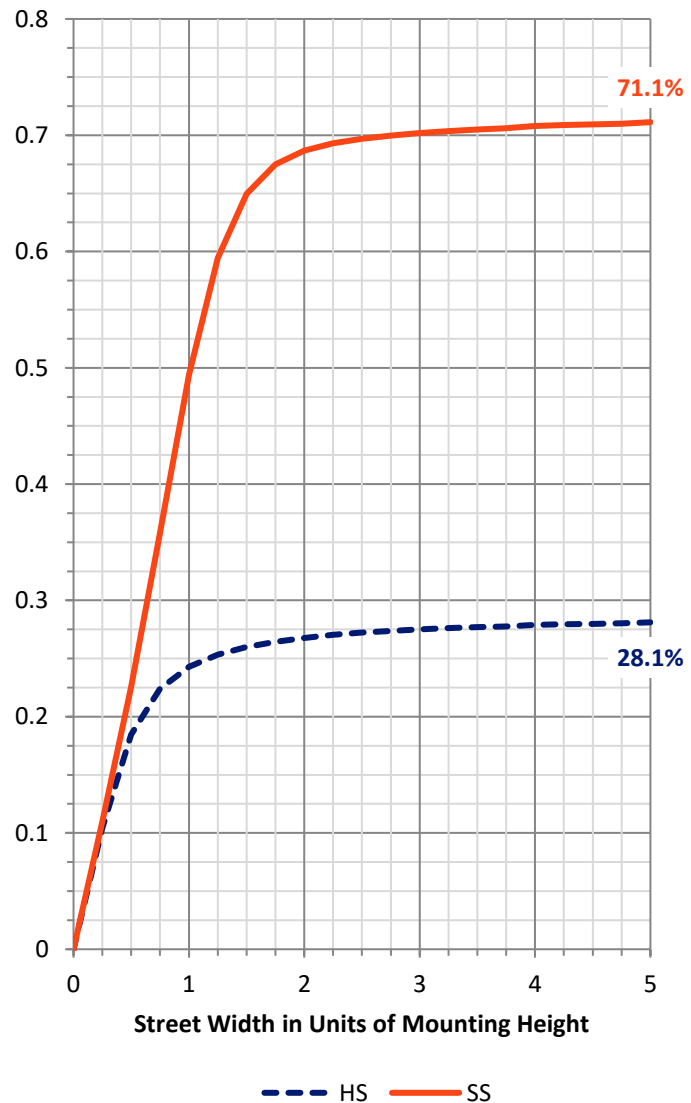
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.8	0.0	631.8
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1581.2	0.0	1581.2
	% Fixture	71.5	0.0	71.5
Total	Lumens	2213.0	0.0	2213.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.2
10°-20°	81.1	3.7
20°-30°	142.5	6.4
30°-40°	240.1	10.9
40°-50°	420.6	19.0
50°-60°	543.7	24.6
60°-70°	470.6	21.3
70°-80°	244.3	11.0
80°-90°	42.6	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°	2213.0	100.0
0°-180°	2213.0	100.0



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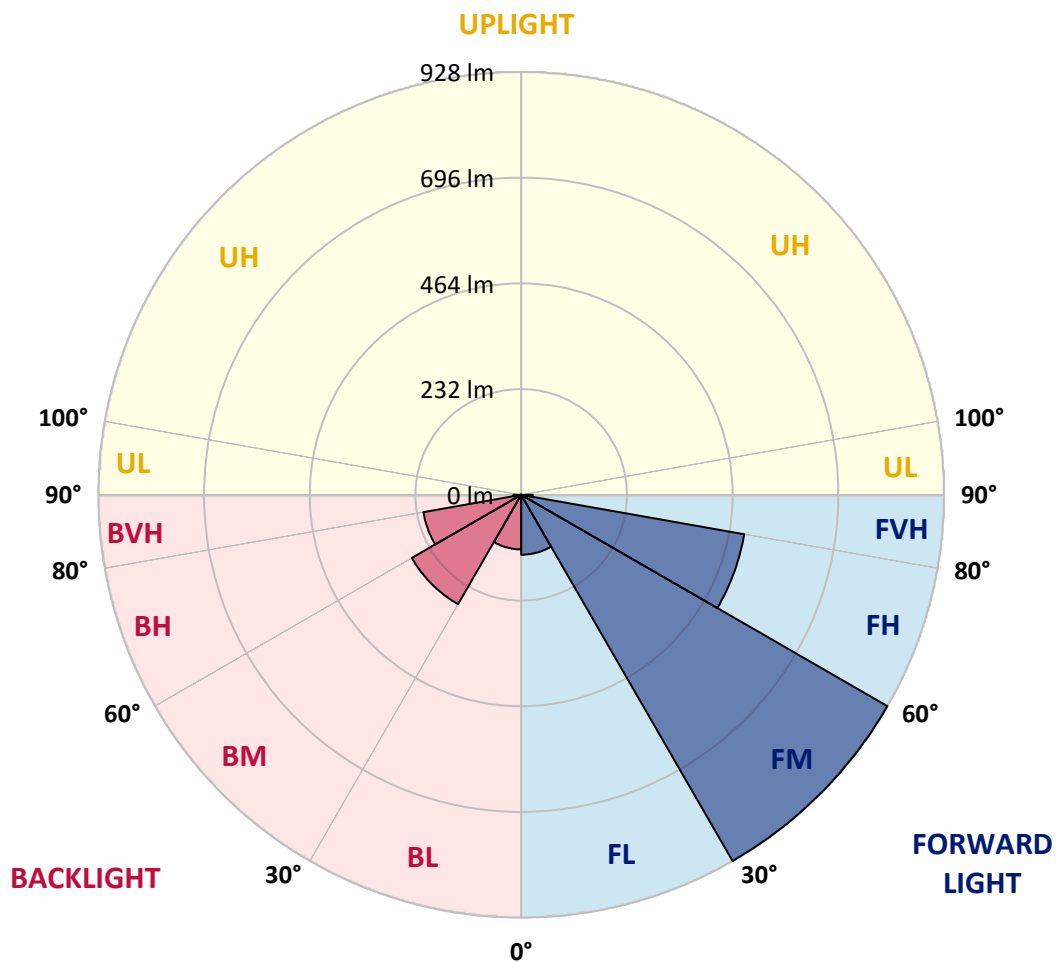
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.4	5.9			
FM (30°-60°)	927.5	41.9			
FH (60°-80°)	497.0	22.5			G0/660
FVH (80°-90°)	25.4	1.1			G1/100
BL (0°-30°)	119.7	5.4	B1/500		
BM (30°-60°)	277.0	12.5	B1/1000		
BH (60°-80°)	217.9	9.8	B1/500		G1/500
BVH (80°-90°)	17.2	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°	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7
2.5°	282.9	282.1	283.5	284.2	283.9	285.2	285.2	285.4	285.4	286.4	287.5
5°	274.6	274.2	275.7	276.7	277.5	279.4	280.6	281.3	281.9	283.3	285.8
7.5°	266.8	266.1	268.2	269.0	270.3	273.0	275.9	277.5	278.4	281.5	285.0
10°	260.3	260.1	261.8	262.6	264.1	268.0	272.1	275.7	276.3	280.4	283.7
12.5°	257.2	256.8	258.7	259.7	262.2	267.0	271.7	276.1	277.1	281.9	284.8
15°	259.7	260.1	261.8	262.0	264.9	269.9	275.2	279.6	280.6	285.4	287.5
17.5°	271.5	271.3	272.3	271.9	273.0	275.5	281.3	284.8	286.0	289.5	291.2
20°	292.9	292.2	293.1	290.4	285.8	284.6	288.1	292.0	292.4	294.5	293.5
22.5°	325.4	326.0	324.1	317.3	306.3	301.1	298.9	300.1	301.6	301.3	298.2
25°	367.8	369.9	366.4	354.4	335.9	323.9	315.6	313.8	314.8	311.9	307.1
27.5°	423.5	425.2	417.5	398.9	374.0	356.2	339.7	333.2	333.2	327.0	318.3
30°	484.8	485.9	473.7	450.0	421.3	394.8	370.3	357.9	356.8	344.6	331.0
32.5°	559.4	556.5	542.0	512.8	476.6	440.1	408.6	389.8	387.7	369.3	351.9
35°	655.7	655.7	625.7	592.3	548.2	501.8	460.4	431.2	429.1	408.2	385.6
37.5°	760.3	759.9	732.8	686.8	634.0	577.2	521.9	485.5	480.7	458.3	433.1
40°	864.5	861.0	839.0	795.3	739.0	674.1	597.9	555.5	553.2	521.3	489.6
42.5°	940.7	937.4	927.0	897.8	860.7	813.9	696.7	639.3	636.0	595.9	557.1
45°	982.7	978.0	976.5	976.9	981.1	980.9	818.7	738.6	727.0	680.4	628.8
47.5°	973.2	962.0	976.9	1015.3	1079.7	1121.9	960.8	856.4	834.9	768.2	705.2
50°	896.4	891.0	922.9	1001.0	1133.3	1232.5	1117.1	978.8	948.4	851.2	777.5
52.5°	761.5	771.9	811.2	922.3	1123.6	1299.4	1259.2	1106.0	1063.7	930.3	840.2
55°	606.2	619.3	674.8	792.4	1033.5	1300.2	1361.7	1229.2	1191.5	1012.1	904.4
57.5°	441.1	459.6	529.0	636.9	875.5	1211.4	1412.3	1344.6	1301.5	1092.7	967.2
60°	277.1	290.2	365.8	490.8	669.2	1015.3	1399.6	1436.9	1401.3	1168.7	1038.9
62.5°	178.5	184.7	217.5	350.4	466.6	744.6	1306.2	1489.9	1474.6	1238.1	1092.9
63°	163.6	169.0	197.0	323.9	432.7	685.9	1274.8	1492.6	1483.5	1251.1	1105.6
65°	117.0	122.8	137.3	222.6	319.4	460.2	1092.3	1467.6	1477.7	1272.9	1122.7
67.5°	92.4	94.2	100.9	135.2	226.6	261.4	735.0	1317.8	1362.4	1249.7	1097.3
70°	82.6	84.1	91.5	103.8	171.5	169.4	383.4	1059.6	1151.7	1170.6	1033.1
72.5°	72.1	73.1	82.2	97.8	130.9	129.4	166.7	712.5	824.5	1025.6	944.2
75°	59.6	60.7	68.3	86.8	110.8	102.3	104.4	372.4	472.6	804.0	828.0
77.5°	49.1	49.7	56.1	69.8	97.5	78.9	80.8	156.6	229.7	548.0	653.8
80°	35.6	35.8	41.8	53.0	74.6	71.2	60.1	85.3	104.2	300.3	411.3
82.5°	24.9	25.1	31.3	37.1	51.4	71.0	43.7	57.2	62.5	138.3	183.1
85°	17.4	17.0	21.3	24.4	32.5	43.1	33.3	36.7	38.7	59.9	49.3
87.5°	7.7	7.5	12.0	13.0	16.4	19.9	26.5	19.3	20.5	29.0	15.5
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°	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7	289.7
2.5°	287.7	288.5	289.7	291.6	293.1	293.7	294.9	295.1	297.0	295.3	295.5
5°	287.3	288.3	291.0	294.3	296.6	298.2	301.3	302.4	304.2	303.4	303.2
7.5°	286.6	288.5	292.4	297.2	300.7	303.4	306.3	308.2	310.0	309.6	309.2
10°	285.8	288.1	293.7	298.4	303.4	306.3	308.4	308.6	309.2	308.8	307.8
12.5°	286.4	288.9	295.3	300.1	305.3	307.4	306.7	303.6	300.9	298.7	298.2
15°	288.5	291.4	297.4	301.8	305.9	304.7	300.9	294.1	289.1	286.2	286.4
17.5°	290.6	293.1	297.6	301.1	303.2	299.5	293.7	287.9	285.6	283.3	282.9
20°	292.4	292.9	295.8	298.9	298.7	295.8	290.4	283.3	278.8	275.0	275.2
22.5°	295.3	293.7	293.9	295.8	298.0	295.3	282.7	270.5	263.7	259.3	259.1
25°	302.0	298.4	295.1	296.2	304.9	287.7	266.3	250.4	244.4	240.5	240.9
27.5°	311.1	306.3	299.7	305.3	310.0	272.6	242.9	226.6	222.4	218.3	219.3
30°	321.0	314.2	306.1	325.0	304.2	248.5	213.9	199.0	195.3	191.4	192.2
32.5°	338.8	328.7	318.1	348.6	290.8	219.3	183.5	170.0	167.6	165.1	165.3
35°	368.4	356.4	345.0	366.6	273.4	188.9	156.2	146.6	144.6	141.7	141.7
37.5°	412.1	393.3	387.3	376.1	249.6	160.5	136.1	129.7	125.3	121.4	121.4
40°	462.9	440.5	435.8	379.0	218.5	136.9	122.0	116.4	110.6	104.8	105.2
42.5°	524.6	494.4	483.4	375.1	180.8	121.8	112.0	105.6	100.0	95.1	94.2
45°	594.2	555.9	528.1	363.7	146.6	112.5	105.6	98.0	90.9	86.6	85.7
47.5°	665.2	622.6	567.7	340.9	122.6	105.8	101.3	90.5	85.5	82.6	82.2
50°	733.2	688.6	600.4	305.1	108.7	101.1	94.9	87.0	82.8	80.4	80.2
52.5°	793.4	751.4	628.0	268.0	99.4	97.1	92.0	85.3	81.0	78.7	78.3
55°	850.8	815.0	655.3	234.9	91.3	90.5	90.5	83.7	78.9	76.8	76.4
57.5°	913.8	887.3	682.8	210.6	84.1	85.7	88.6	81.8	76.6	74.8	74.6
60°	986.5	970.9	711.8	189.3	77.7	80.6	86.0	79.3	73.9	72.5	72.1
62.5°	1060.8	1061.2	736.9	163.6	72.3	76.6	82.8	77.0	71.5	70.4	70.2
63°	1073.9	1077.6	740.4	158.0	71.0	75.8	82.0	76.2	70.8	69.8	69.6
65°	1106.0	1122.3	743.3	134.4	66.5	72.7	78.9	73.5	68.1	67.9	67.5
67.5°	1098.3	1125.0	725.3	105.4	61.3	68.3	74.6	69.6	64.8	64.8	64.0
70°	1041.1	1058.5	670.0	81.4	57.4	63.8	69.4	65.4	60.5	60.9	59.2
72.5°	953.5	934.5	551.1	63.6	52.6	58.6	63.4	60.1	55.7	55.3	53.4
75°	825.1	762.4	394.8	51.4	46.8	51.8	56.7	54.3	50.3	48.0	47.6
77.5°	628.8	541.2	236.5	43.5	41.8	46.0	49.1	47.2	44.1	41.4	41.6
80°	374.5	312.1	106.7	36.9	36.2	39.4	41.8	40.4	38.3	35.0	34.2
82.5°	151.6	120.7	47.8	29.8	30.7	32.9	35.2	34.0	32.3	31.5	26.7
85°	39.4	37.9	28.0	22.4	23.6	24.6	27.8	27.8	26.3	21.5	19.9
87.5°	11.2	14.9	15.5	14.1	15.9	16.2	19.3	19.3	19.7	13.3	12.0
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)