

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: P349017

Luminaire Tested: **ARCH-N-PA1-19-830-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349017
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-PA1-19-830-U-T2U-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: 1714 lumens
Efficiency: N/A
Efficacy: 90.2 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

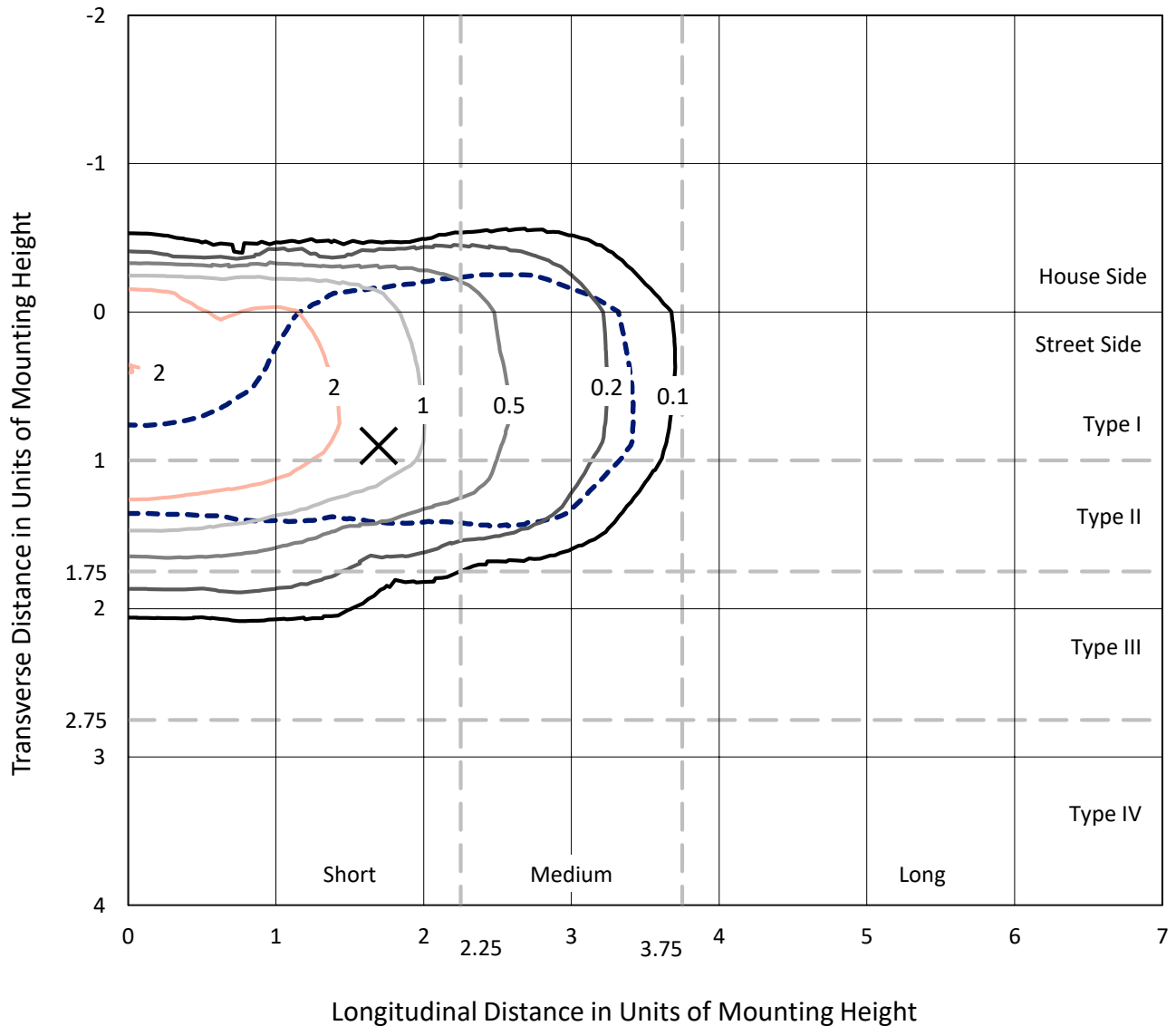
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

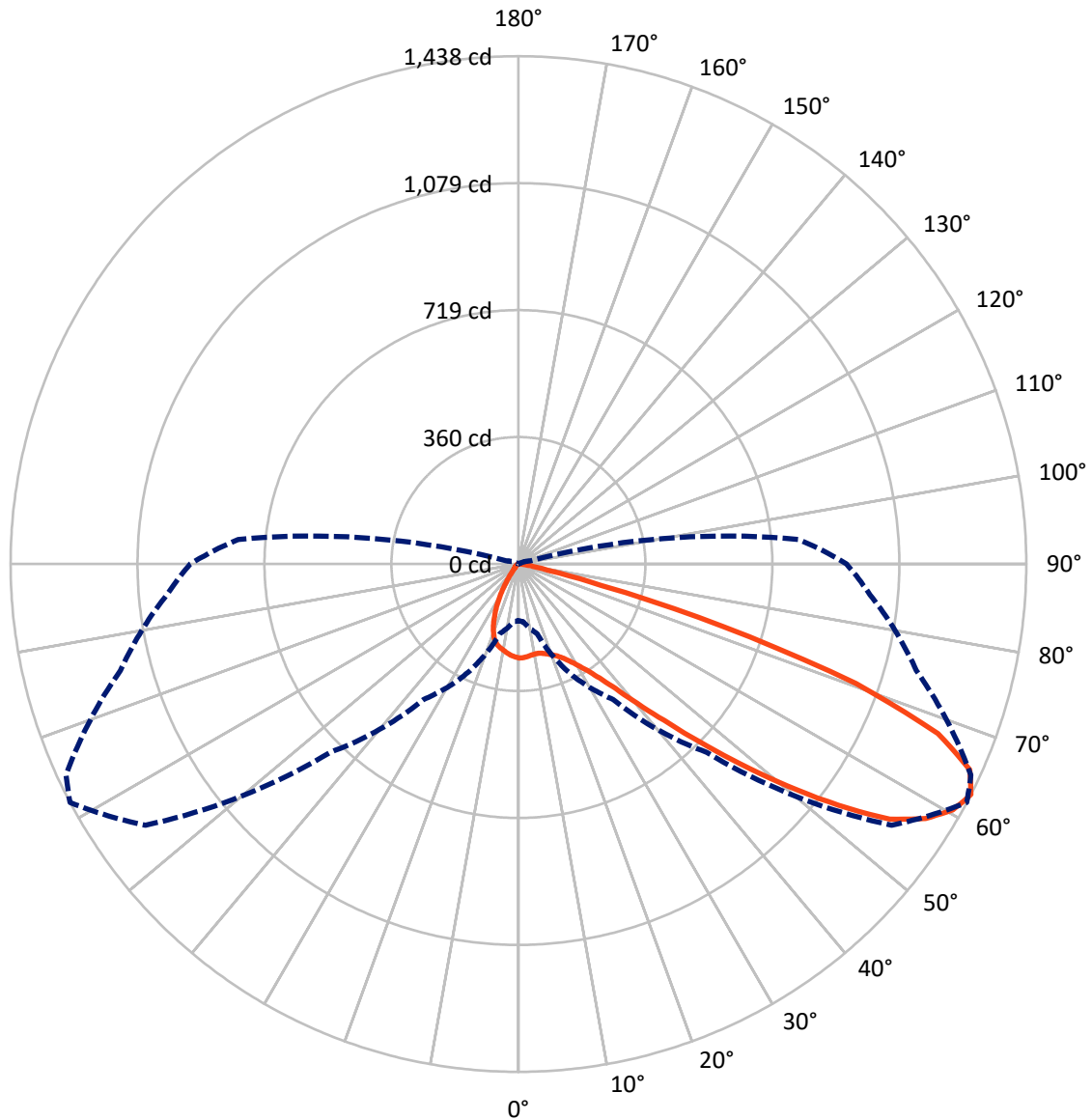
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - 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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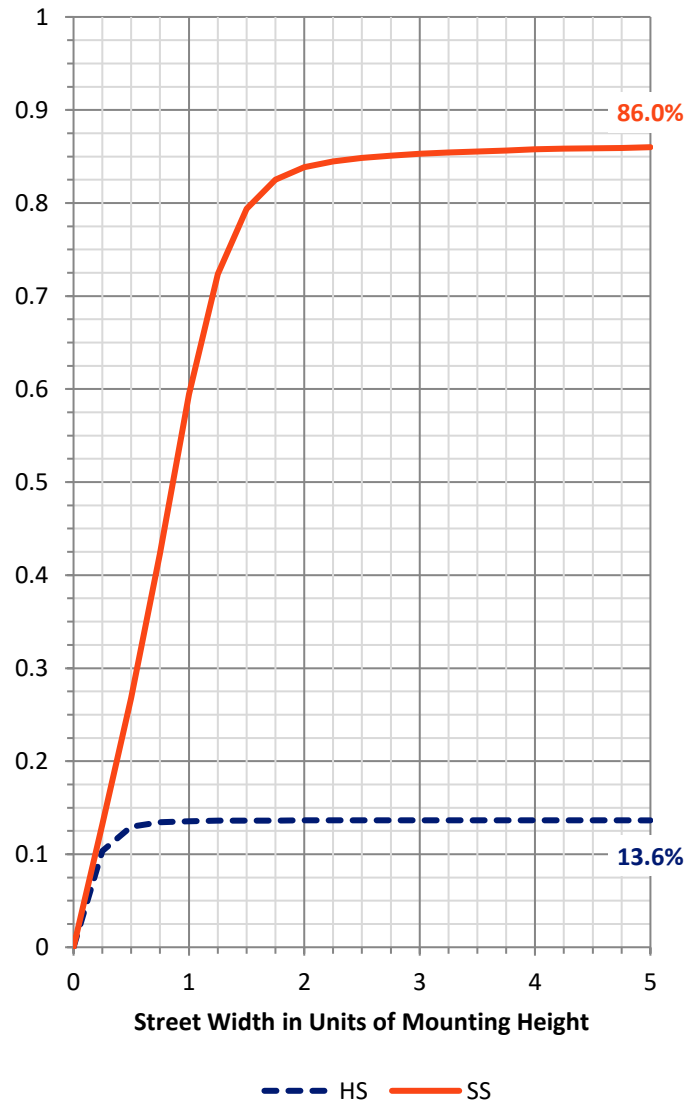
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	236.6	0.0	236.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1477.3	0.0	1477.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	1714.0	0.0	1714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	1.4
10°-20°	60.9	3.6
20°-30°	90.9	5.3
30°-40°	173.2	10.1
40°-50°	361.1	21.1
50°-60°	479.8	28.0
60°-70°	374.0	21.8
70°-80°	141.4	8.2
80°-90°	8.5	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°	1714.0	100.0
0°-180°	1714.0	100.0

Coefficient of Utilization



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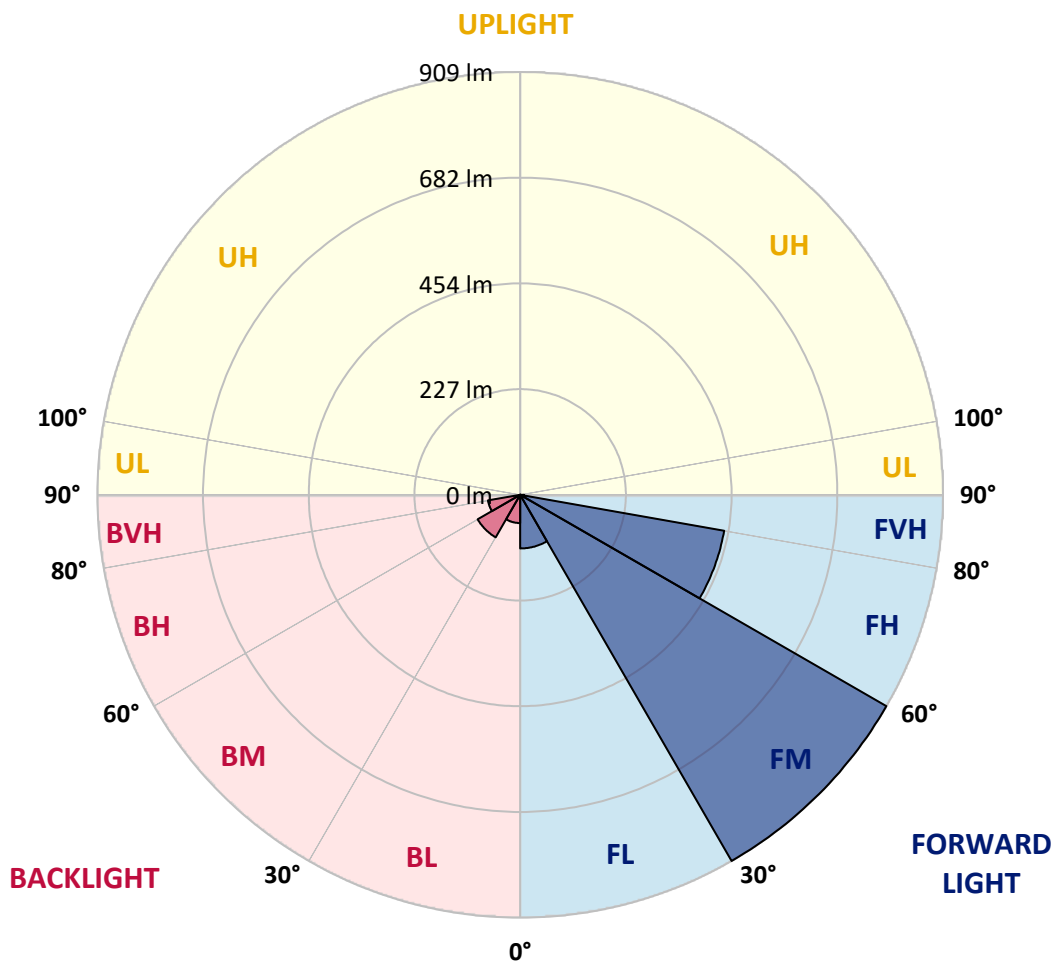
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.3	6.7			
FM (30°-60°)	908.8	53.0			
FH (60°-80°)	445.2	26.0			G0/660
FVH (80°-90°)	8.1	0.5			G0/10
BL (0°-30°)	60.7	3.5	B0/110		
BM (30°-60°)	105.4	6.1	B0/220		
BH (60°-80°)	70.2	4.1	B0/110		G0/110
BVH (80°-90°)	0.4	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°	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3
2.5°	265.4	264.9	266.1	266.1	265.8	266.3	265.8	265.6	265.4	264.9	264.5
5°	258.4	258.4	260.0	260.7	261.4	262.7	263.1	263.6	263.4	263.8	264.0
7.5°	250.4	250.8	252.6	253.5	254.6	257.3	258.9	260.7	260.9	262.5	263.4
10°	243.7	244.1	245.9	247.0	248.6	252.2	255.5	258.7	259.1	262.0	262.7
12.5°	239.2	239.6	241.4	243.0	246.4	250.8	255.5	259.1	260.2	263.8	263.8
15°	237.4	237.8	240.1	242.8	247.2	253.1	258.9	262.7	264.9	267.9	266.5
17.5°	236.7	237.6	241.4	245.5	250.4	256.7	263.8	267.9	270.1	273.2	270.3
20°	238.7	239.9	244.8	250.4	255.5	262.0	269.9	274.3	276.6	278.6	273.0
22.5°	245.9	247.7	252.0	258.2	262.3	270.1	277.9	283.1	285.5	285.3	277.9
25°	263.1	265.4	267.4	270.8	272.6	282.0	290.2	295.4	297.2	296.5	288.0
27.5°	303.9	306.8	299.7	292.3	288.2	297.0	306.1	311.5	313.1	311.7	298.8
30°	372.7	372.9	356.5	333.2	316.0	315.1	326.3	333.5	333.5	330.8	314.0
32.5°	472.8	465.6	445.0	403.8	364.8	344.4	353.0	359.9	359.9	356.5	337.3
35°	598.6	593.3	559.2	509.7	440.3	391.5	389.7	396.4	396.6	395.7	373.8
37.5°	726.7	713.5	685.1	625.7	544.2	463.8	442.3	447.0	450.4	449.9	422.6
40°	845.9	832.7	808.7	751.6	671.9	570.4	518.9	518.9	519.1	516.9	484.0
42.5°	939.5	933.4	915.5	875.9	814.3	738.2	622.1	605.1	601.5	599.3	556.1
45°	1000.2	993.9	984.3	976.0	956.1	928.7	760.8	716.2	710.4	688.4	635.8
47.5°	1003.5	993.9	1000.4	1031.8	1076.8	1090.9	931.9	845.7	830.2	790.6	715.8
50°	928.7	929.6	954.9	1031.1	1152.7	1233.1	1113.3	988.1	963.7	884.4	786.3
52.5°	791.2	800.2	839.4	956.5	1156.3	1324.0	1271.2	1135.0	1086.6	968.6	836.0
55°	619.5	627.5	691.6	818.3	1069.2	1337.0	1386.1	1275.7	1211.6	1027.3	880.6
57.5°	438.1	453.3	532.8	649.2	903.0	1237.8	1417.4	1359.9	1297.8	1084.4	922.5
60°	266.3	273.9	356.5	492.0	680.6	1030.2	1380.7	1413.6	1363.4	1133.9	961.7
62.5°	160.1	164.6	204.2	338.8	468.3	754.3	1289.8	1438.2	1413.6	1166.8	999.3
65°	94.7	97.6	116.2	204.7	312.0	462.7	1093.4	1404.4	1424.4	1195.3	1021.2
67.5°	68.3	69.2	75.9	110.2	209.4	247.9	760.3	1281.3	1355.8	1204.7	1008.2
70°	58.9	60.0	66.5	77.5	148.3	146.2	395.7	1014.1	1149.3	1155.6	953.4
72.5°	44.6	46.6	57.3	72.8	106.4	103.9	149.2	604.7	780.3	948.7	821.9
75°	30.2	31.4	42.6	61.8	83.1	77.5	78.2	242.8	381.6	594.8	564.8
77.5°	19.0	19.9	26.0	44.3	71.2	54.6	55.3	86.2	137.7	252.2	242.1
80°	13.0	13.4	15.7	28.7	48.2	47.5	35.6	45.0	51.3	77.7	52.2
82.5°	7.8	7.8	10.3	17.0	29.1	37.6	22.4	24.9	27.3	28.9	11.9
85°	2.7	2.9	6.3	10.5	17.9	18.8	12.8	14.8	15.5	16.8	5.6
87.5°	1.1	0.9	3.4	5.8	7.6	8.7	7.4	6.7	7.4	9.9	2.5
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°	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3
2.5°	264.7	263.8	263.8	263.6	262.3	261.6	260.9	259.1	260.2	258.9	258.0
5°	263.4	262.7	261.6	260.5	257.3	254.6	253.5	251.3	251.1	249.3	248.4
7.5°	263.1	261.6	259.8	256.0	251.3	247.0	243.2	239.4	237.8	235.8	234.7
10°	262.0	260.0	256.7	250.6	243.7	236.9	228.4	217.9	210.1	205.6	204.9
12.5°	262.3	260.0	254.9	245.9	236.7	221.9	199.1	175.1	155.4	147.1	145.8
15°	264.0	261.6	253.7	241.6	226.0	193.5	151.6	114.9	89.4	80.2	78.2
17.5°	266.3	262.0	251.3	235.6	205.4	150.1	95.4	60.2	45.9	40.8	39.9
20°	267.6	261.8	247.2	226.4	174.0	100.3	52.0	35.4	31.1	30.0	29.6
22.5°	271.0	262.5	243.9	212.1	134.6	60.5	32.9	27.5	25.1	23.7	23.5
25°	277.9	267.0	244.1	193.5	94.3	36.5	26.7	22.4	20.2	18.8	18.4
27.5°	288.0	275.0	248.4	170.4	58.2	27.5	22.2	18.1	15.7	14.6	14.3
30°	300.8	284.9	253.3	140.4	36.3	23.1	17.9	14.1	12.3	11.6	11.4
32.5°	320.9	301.9	257.5	105.0	25.1	19.0	14.1	11.2	10.1	9.4	9.4
35°	354.3	331.2	264.5	70.3	19.9	15.2	11.4	9.2	8.3	7.8	7.8
37.5°	401.3	373.1	267.9	43.7	16.3	11.9	9.2	7.6	6.9	6.5	6.5
40°	458.7	423.9	263.1	27.1	13.7	9.6	7.6	6.5	5.8	5.6	5.6
42.5°	524.7	482.4	248.4	19.3	11.4	7.8	6.5	5.6	5.2	4.9	4.9
45°	598.6	546.5	221.7	16.1	9.6	6.7	5.6	4.7	4.5	4.3	4.3
47.5°	672.3	611.4	187.2	13.9	8.1	5.6	4.7	4.0	3.8	3.6	3.6
50°	736.6	668.3	150.7	12.1	6.7	4.9	4.0	3.4	3.1	2.9	2.9
52.5°	773.3	702.1	116.7	10.1	5.8	4.3	3.1	2.7	2.5	2.2	2.2
55°	813.0	730.3	87.1	8.5	4.7	3.6	2.5	2.0	1.8	1.6	1.6
57.5°	849.9	755.6	64.7	6.9	4.0	2.7	2.0	1.6	1.3	1.1	1.1
60°	885.7	777.1	47.9	5.6	3.4	2.2	1.6	1.1	0.9	0.7	0.7
62.5°	929.4	796.8	35.2	4.5	2.9	1.6	1.1	0.7	0.4	0.2	0.2
65°	961.9	806.9	26.4	3.4	2.5	1.1	0.7	0.4	0.0	0.0	0.0
67.5°	961.7	787.4	19.3	2.5	1.8	0.9	0.4	0.0	0.0	0.0	0.0
70°	916.7	728.3	13.4	2.0	1.3	0.7	0.2	0.0	0.0	0.0	0.0
72.5°	786.1	576.0	8.7	1.3	1.1	0.4	0.2	0.0	0.0	0.0	0.0
75°	530.6	292.5	5.2	1.1	0.9	0.4	0.2	0.0	0.0	0.0	0.0
77.5°	226.9	114.9	2.7	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0
80°	47.5	27.8	1.1	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	4.0	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	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)