

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: P349009

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349009
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-PA1-10-827-U-T2U-HSS
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: 1182 lumens
Efficiency: N/A
Efficacy: 84.4 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

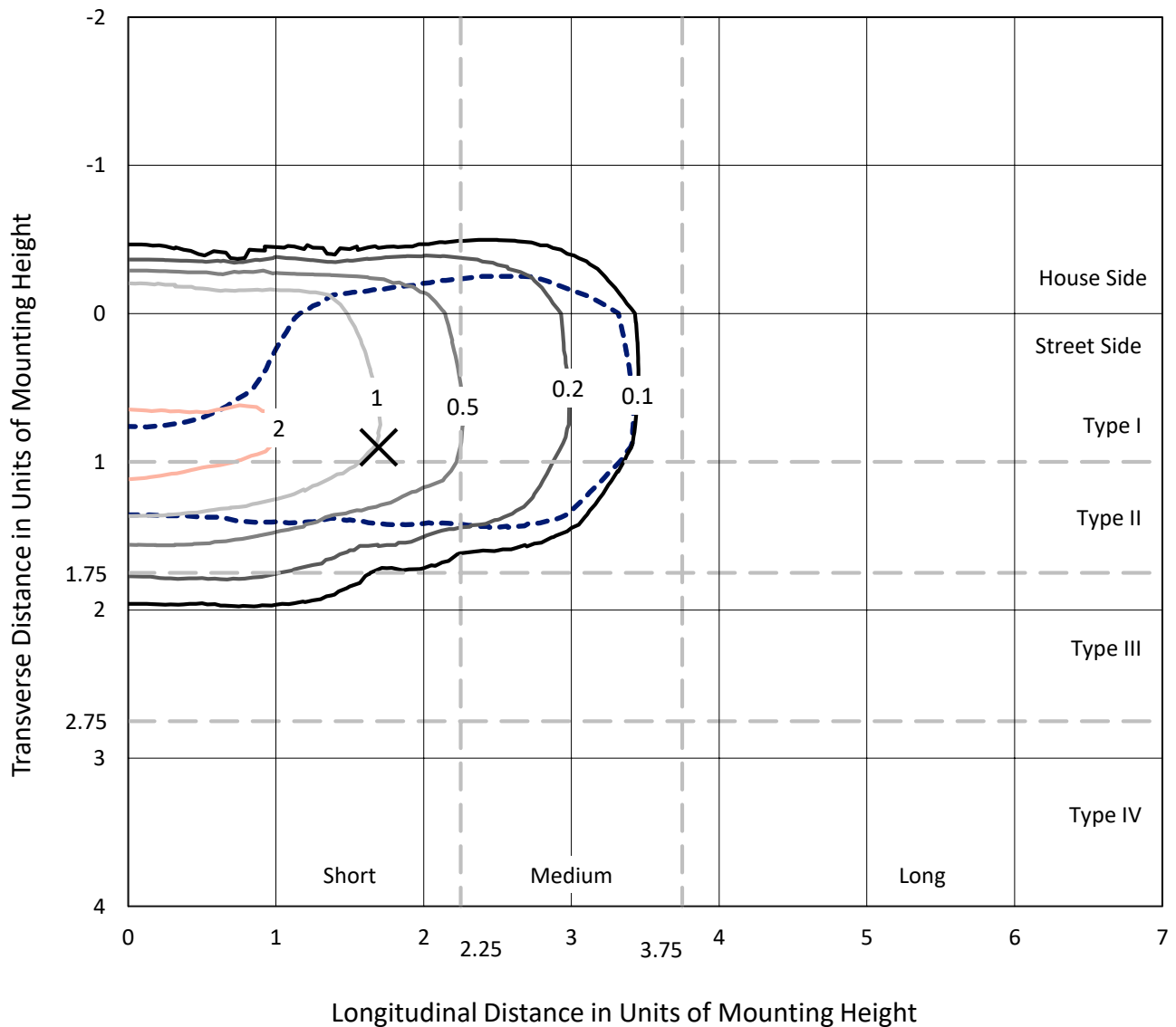
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

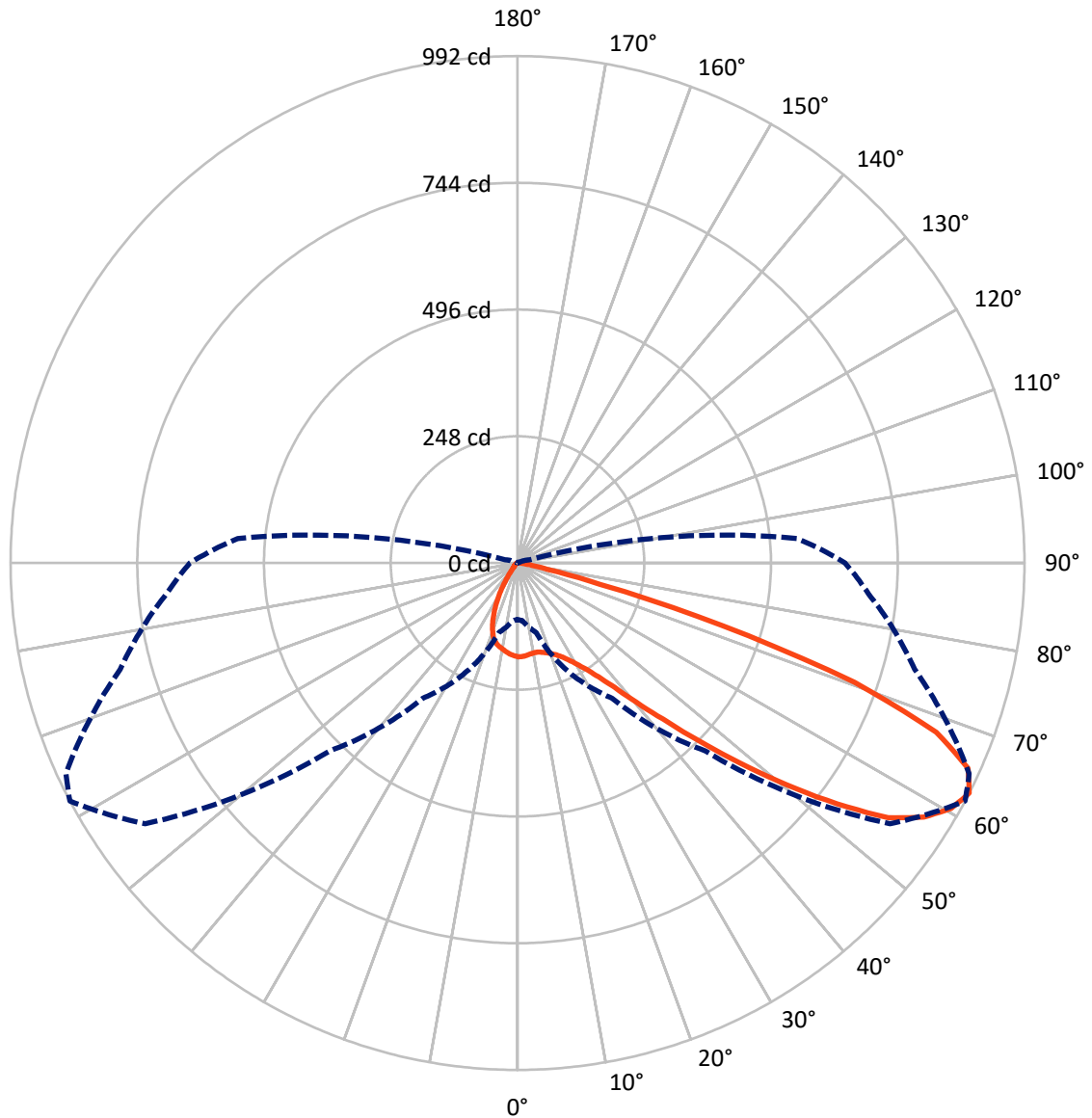
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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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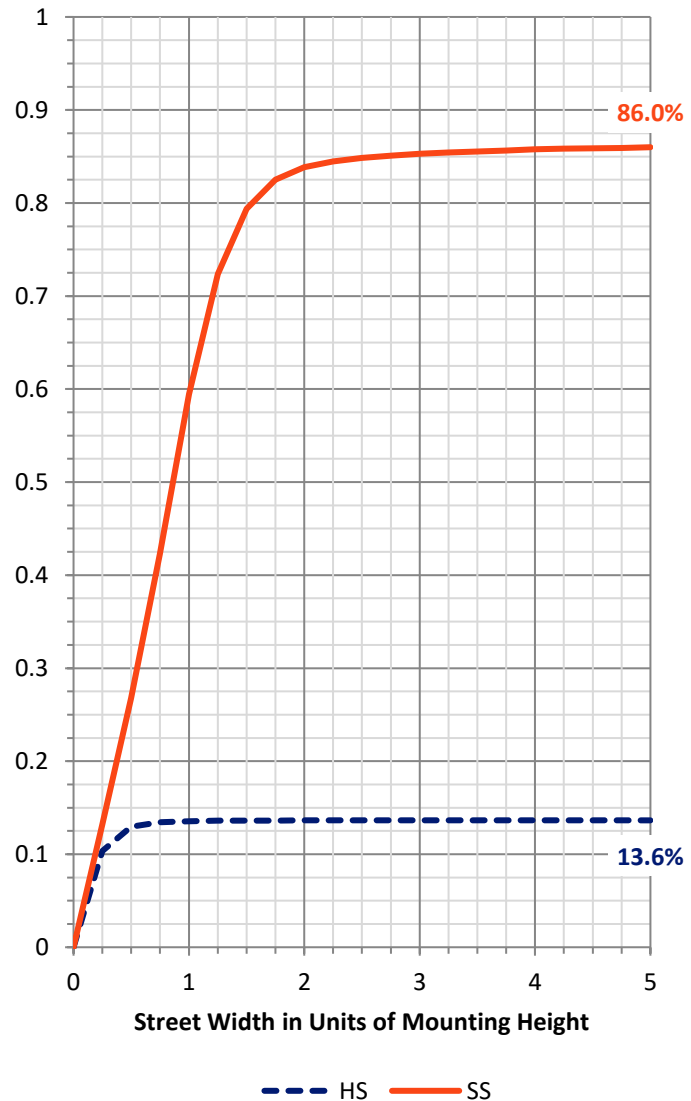
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.2	0.0	163.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1018.8	0.0	1018.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	1182.0	0.0	1182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	1.4
10°-20°	42.0	3.6
20°-30°	62.7	5.3
30°-40°	119.4	10.1
40°-50°	249.0	21.1
50°-60°	330.9	28.0
60°-70°	257.9	21.8
70°-80°	97.5	8.2
80°-90°	5.8	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°	1182.0	100.0
0°-180°	1182.0	100.0



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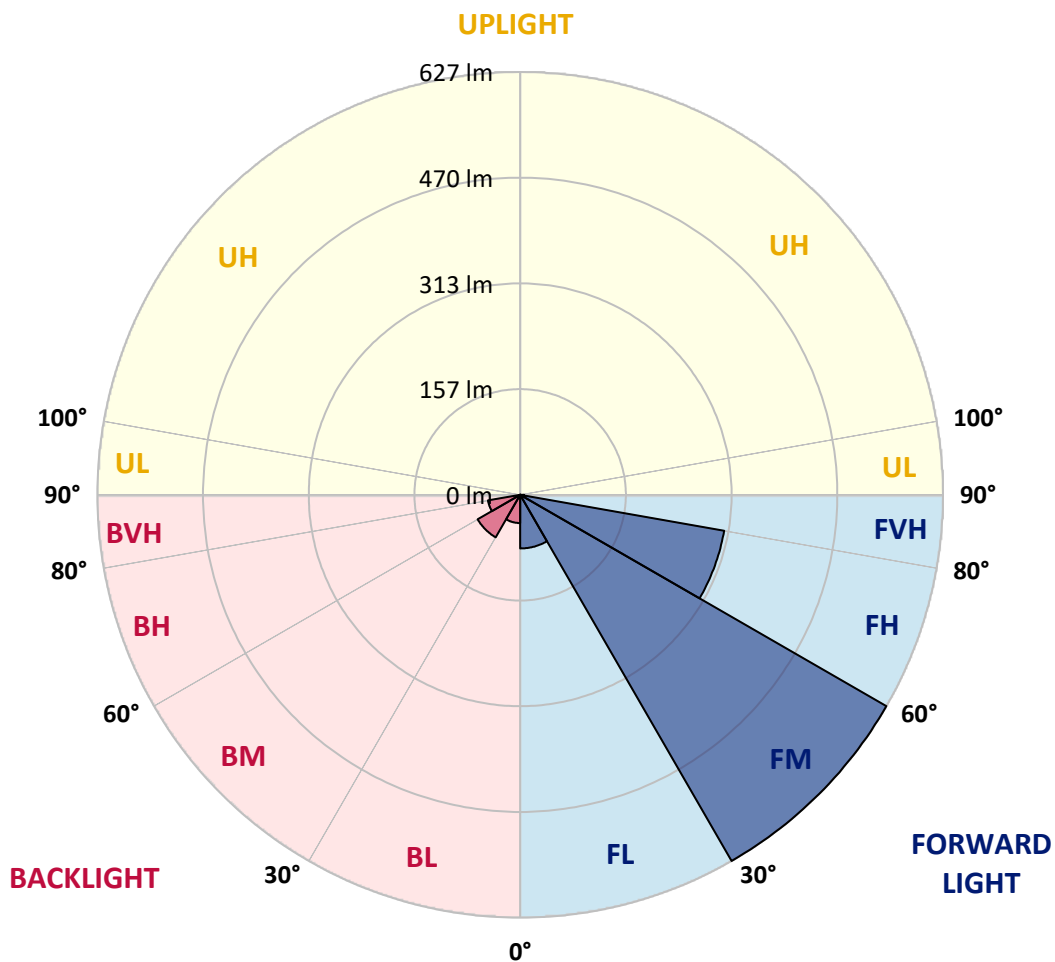
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	79.5	6.7			
FM (30°-60°)	626.7	53.0			
FH (60°-80°)	307.0	26.0			G0/660
FVH (80°-90°)	5.6	0.5			G0/10
BL (0°-30°)	41.9	3.5	B0/110		
BM (30°-60°)	72.7	6.1	B0/220		
BH (60°-80°)	48.4	4.1	B0/110		G0/110
BVH (80°-90°)	0.3	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°	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6
2.5°	183.0	182.7	183.5	183.5	183.3	183.6	183.3	183.2	183.0	182.7	182.4
5°	178.2	178.2	179.3	179.8	180.2	181.2	181.5	181.8	181.6	181.9	182.1
7.5°	172.7	173.0	174.2	174.8	175.6	177.5	178.5	179.8	179.9	181.0	181.6
10°	168.0	168.3	169.6	170.4	171.4	173.9	176.2	178.4	178.7	180.7	181.2
12.5°	164.9	165.3	166.5	167.6	169.9	173.0	176.2	178.7	179.5	181.9	181.9
15°	163.7	164.0	165.6	167.4	170.5	174.5	178.5	181.2	182.7	184.7	183.8
17.5°	163.2	163.9	166.5	169.3	172.7	177.0	181.9	184.7	186.3	188.4	186.4
20°	164.6	165.4	168.8	172.7	176.2	180.7	186.1	189.2	190.7	192.1	188.3
22.5°	169.6	170.8	173.7	178.1	180.9	186.3	191.7	195.2	196.9	196.8	191.7
25°	181.5	183.0	184.4	186.7	188.0	194.4	200.2	203.7	204.9	204.5	198.6
27.5°	209.6	211.6	206.6	201.5	198.8	204.8	211.1	214.8	215.9	215.0	206.0
30°	257.0	257.1	245.9	229.8	217.9	217.3	225.0	230.0	230.0	228.1	216.5
32.5°	326.0	321.1	306.9	278.5	251.6	237.5	243.4	248.2	248.2	245.9	232.6
35°	412.8	409.1	385.6	351.5	303.6	270.0	268.7	273.4	273.5	272.9	257.8
37.5°	501.2	492.1	472.4	431.5	375.3	319.9	305.0	308.3	310.6	310.3	291.4
40°	583.3	574.2	557.7	518.3	463.3	393.4	357.8	357.8	358.0	356.5	333.8
42.5°	647.9	643.7	631.4	604.0	561.6	509.0	429.0	417.3	414.8	413.3	383.5
45°	689.7	685.4	678.8	673.1	659.3	640.5	524.6	493.9	489.9	474.8	438.5
47.5°	692.1	685.4	689.9	711.5	742.6	752.3	642.6	583.2	572.5	545.2	493.6
50°	640.5	641.1	658.5	711.1	794.9	850.4	767.7	681.4	664.6	609.9	542.3
52.5°	545.6	551.8	578.9	659.6	797.4	913.1	876.6	782.7	749.4	668.0	576.5
55°	427.2	432.8	476.9	564.3	737.3	922.0	955.8	879.7	835.5	708.4	607.3
57.5°	302.1	312.6	367.4	447.7	622.7	853.6	977.5	937.8	895.0	747.8	636.2
60°	183.6	188.9	245.9	339.3	469.4	710.4	952.1	974.8	940.3	781.9	663.2
62.5°	110.4	113.5	140.9	233.7	322.9	520.2	889.4	991.8	974.8	804.6	689.1
65°	65.3	67.3	80.2	141.2	215.1	319.1	754.0	968.5	982.3	824.3	704.3
67.5°	47.1	47.7	52.4	76.0	144.4	171.0	524.3	883.6	935.0	830.8	695.3
70°	40.6	41.4	45.9	53.4	102.2	100.9	272.9	699.3	792.6	796.9	657.5
72.5°	30.7	32.1	39.5	50.2	73.4	71.7	102.9	417.0	538.1	654.2	566.8
75°	20.8	21.6	29.3	42.6	57.3	53.4	53.9	167.4	263.2	410.2	389.5
77.5°	13.1	13.7	17.9	30.6	49.1	37.7	38.1	59.5	95.0	173.9	167.0
80°	9.0	9.3	10.8	19.8	33.2	32.7	24.6	31.0	35.4	53.6	36.0
82.5°	5.4	5.4	7.1	11.7	20.1	25.9	15.4	17.1	18.8	19.9	8.2
85°	1.9	2.0	4.3	7.3	12.4	13.0	8.8	10.2	10.7	11.6	3.9
87.5°	0.8	0.6	2.3	4.0	5.3	6.0	5.1	4.6	5.1	6.8	1.7
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°	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6
2.5°	182.6	181.9	181.9	181.8	180.9	180.4	179.9	178.7	179.5	178.5	177.9
5°	181.6	181.2	180.4	179.6	177.5	175.6	174.8	173.3	173.1	171.9	171.3
7.5°	181.5	180.4	179.2	176.5	173.3	170.4	167.7	165.1	164.0	162.6	161.9
10°	180.7	179.3	177.0	172.8	168.0	163.4	157.5	150.3	144.9	141.8	141.3
12.5°	180.9	179.3	175.8	169.6	163.2	153.1	137.3	120.8	107.2	101.5	100.5
15°	182.1	180.4	175.0	166.6	155.8	133.4	104.6	79.2	61.6	55.3	53.9
17.5°	183.6	180.7	173.3	162.5	141.6	103.5	65.8	41.5	31.7	28.1	27.5
20°	184.6	180.5	170.5	156.1	120.0	69.2	35.8	24.4	21.5	20.7	20.4
22.5°	186.9	181.0	168.2	146.3	92.8	41.7	22.7	19.0	17.3	16.4	16.2
25°	191.7	184.1	168.3	133.4	65.0	25.2	18.4	15.4	13.9	13.0	12.7
27.5°	198.6	189.7	171.3	117.5	40.2	19.0	15.3	12.5	10.8	10.0	9.9
30°	207.4	196.5	174.7	96.8	25.0	15.9	12.4	9.7	8.5	8.0	7.9
32.5°	221.3	208.2	177.6	72.4	17.3	13.1	9.7	7.7	6.9	6.5	6.5
35°	244.3	228.4	182.4	48.5	13.7	10.5	7.9	6.3	5.7	5.4	5.4
37.5°	276.8	257.3	184.7	30.1	11.3	8.2	6.3	5.3	4.8	4.5	4.5
40°	316.3	292.4	181.5	18.7	9.4	6.6	5.3	4.5	4.0	3.9	3.9
42.5°	361.9	332.7	171.3	13.3	7.9	5.4	4.5	3.9	3.6	3.4	3.4
45°	412.8	376.8	152.9	11.1	6.6	4.6	3.9	3.2	3.1	2.9	2.9
47.5°	463.6	421.6	129.1	9.6	5.6	3.9	3.2	2.8	2.6	2.5	2.5
50°	508.0	460.9	103.9	8.3	4.6	3.4	2.8	2.3	2.2	2.0	2.0
52.5°	533.3	484.2	80.5	6.9	4.0	2.9	2.2	1.9	1.7	1.5	1.5
55°	560.6	503.6	60.1	5.9	3.2	2.5	1.7	1.4	1.2	1.1	1.1
57.5°	586.1	521.1	44.6	4.8	2.8	1.9	1.4	1.1	0.9	0.8	0.8
60°	610.8	535.9	33.1	3.9	2.3	1.5	1.1	0.8	0.6	0.5	0.5
62.5°	640.9	549.5	24.2	3.1	2.0	1.1	0.8	0.5	0.3	0.2	0.2
65°	663.3	556.5	18.2	2.3	1.7	0.8	0.5	0.3	0.0	0.0	0.0
67.5°	663.2	543.0	13.3	1.7	1.2	0.6	0.3	0.0	0.0	0.0	0.0
70°	632.1	502.2	9.3	1.4	0.9	0.5	0.2	0.0	0.0	0.0	0.0
72.5°	542.1	397.2	6.0	0.9	0.8	0.3	0.2	0.0	0.0	0.0	0.0
75°	365.9	201.7	3.6	0.8	0.6	0.3	0.2	0.0	0.0	0.0	0.0
77.5°	156.5	79.2	1.9	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
80°	32.7	19.2	0.8	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	2.8	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	0.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.3	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)