

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: P348785

Luminaire Tested: **ARCH-N-PA1-10-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
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-T2R-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: 1308 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

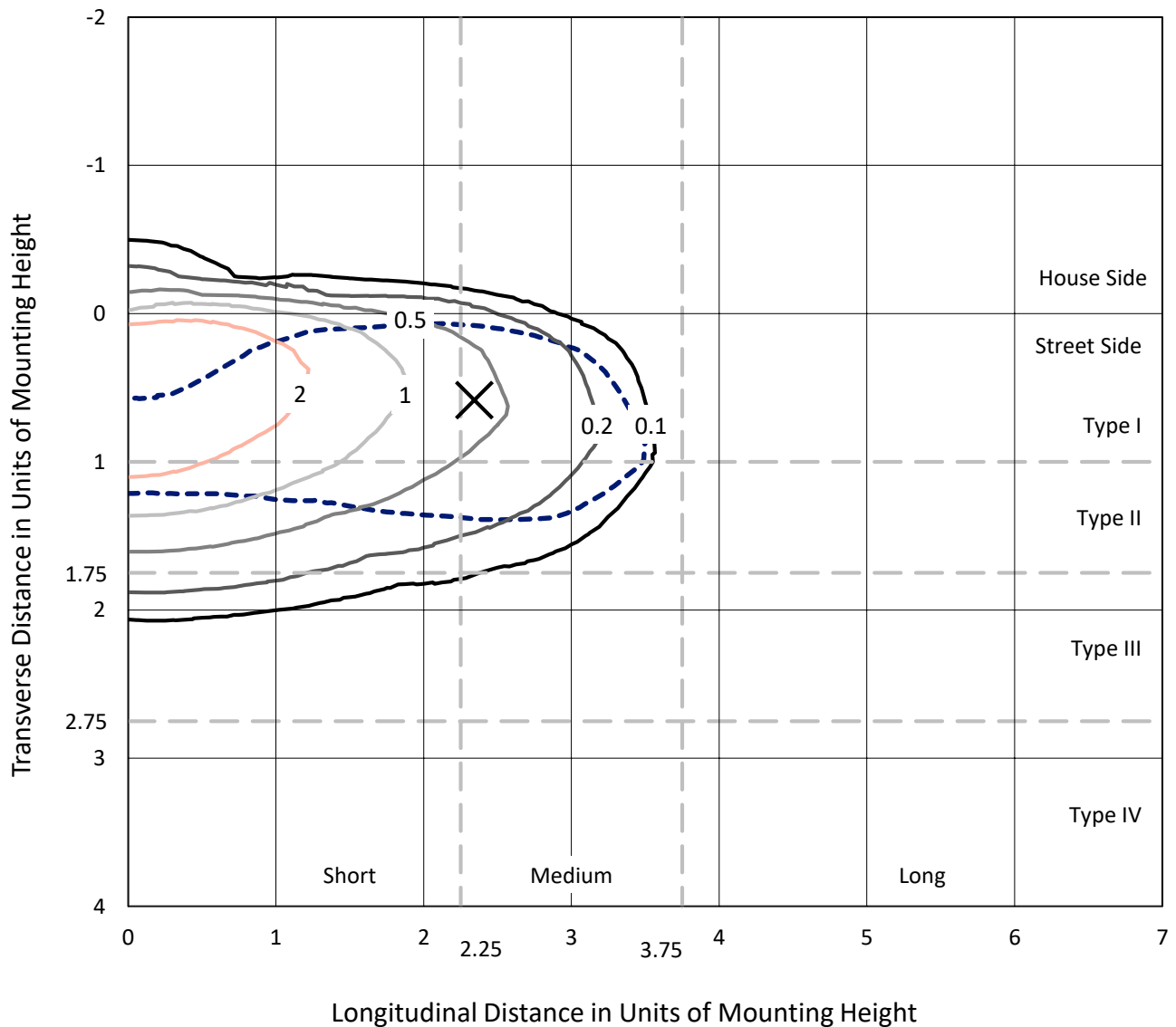
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

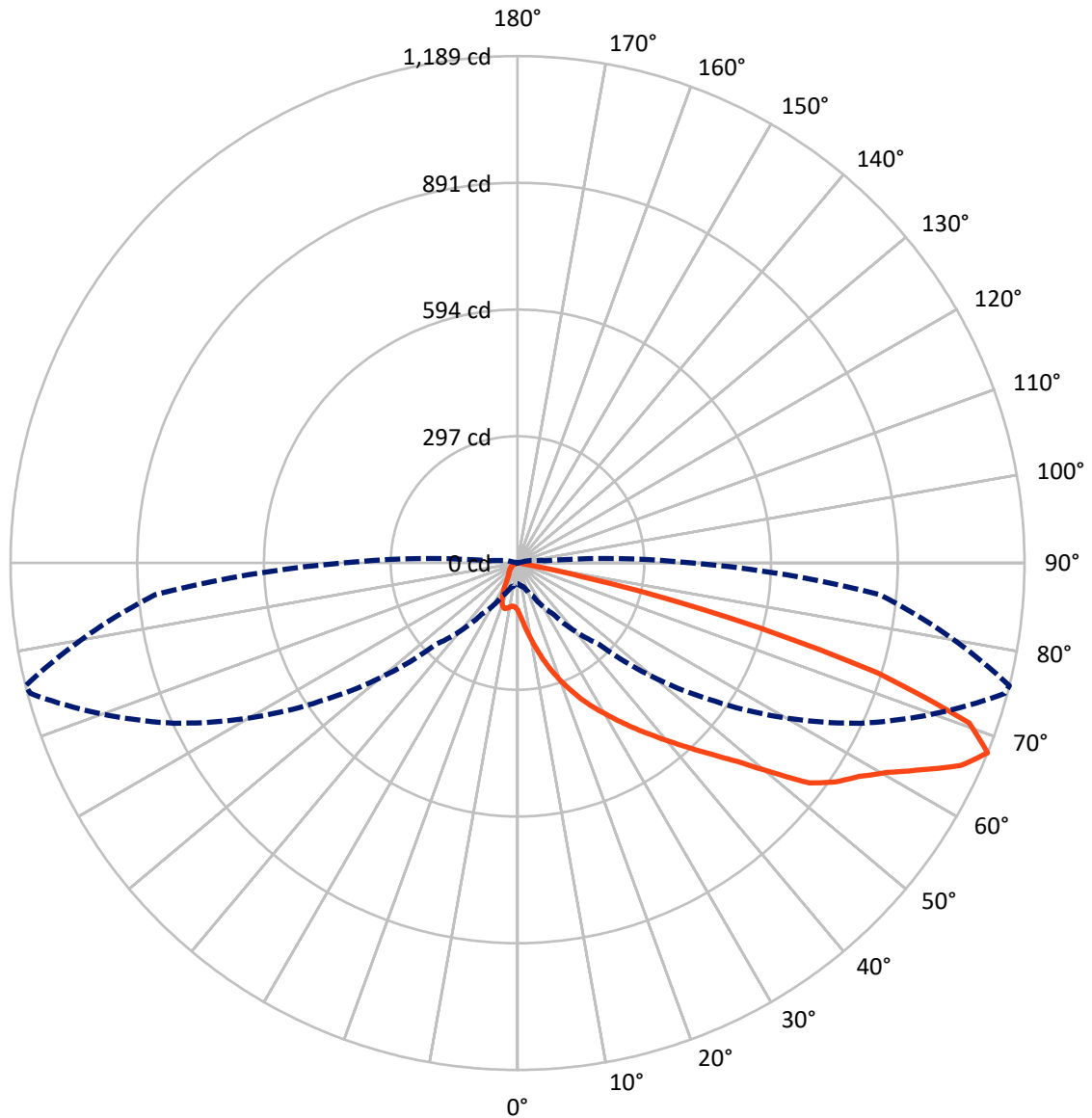
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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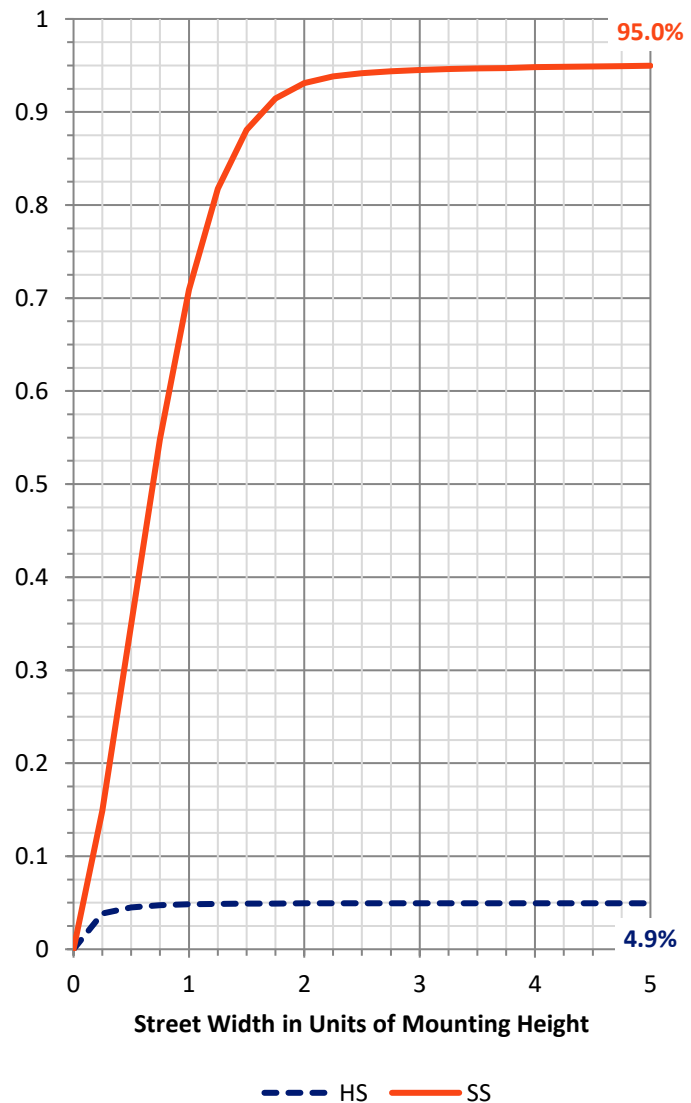
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.9	0.0	64.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1243.0	0.0	1243.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	1308.0	0.0	1308.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	1.1
10°-20°	54.7	4.2
20°-30°	111.3	8.5
30°-40°	193.2	14.8
40°-50°	272.9	20.9
50°-60°	309.5	23.7
60°-70°	256.7	19.6
70°-80°	93.0	7.1
80°-90°	3.0	0.2
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°	1308.0	100.0
0°-180°	1308.0	100.0



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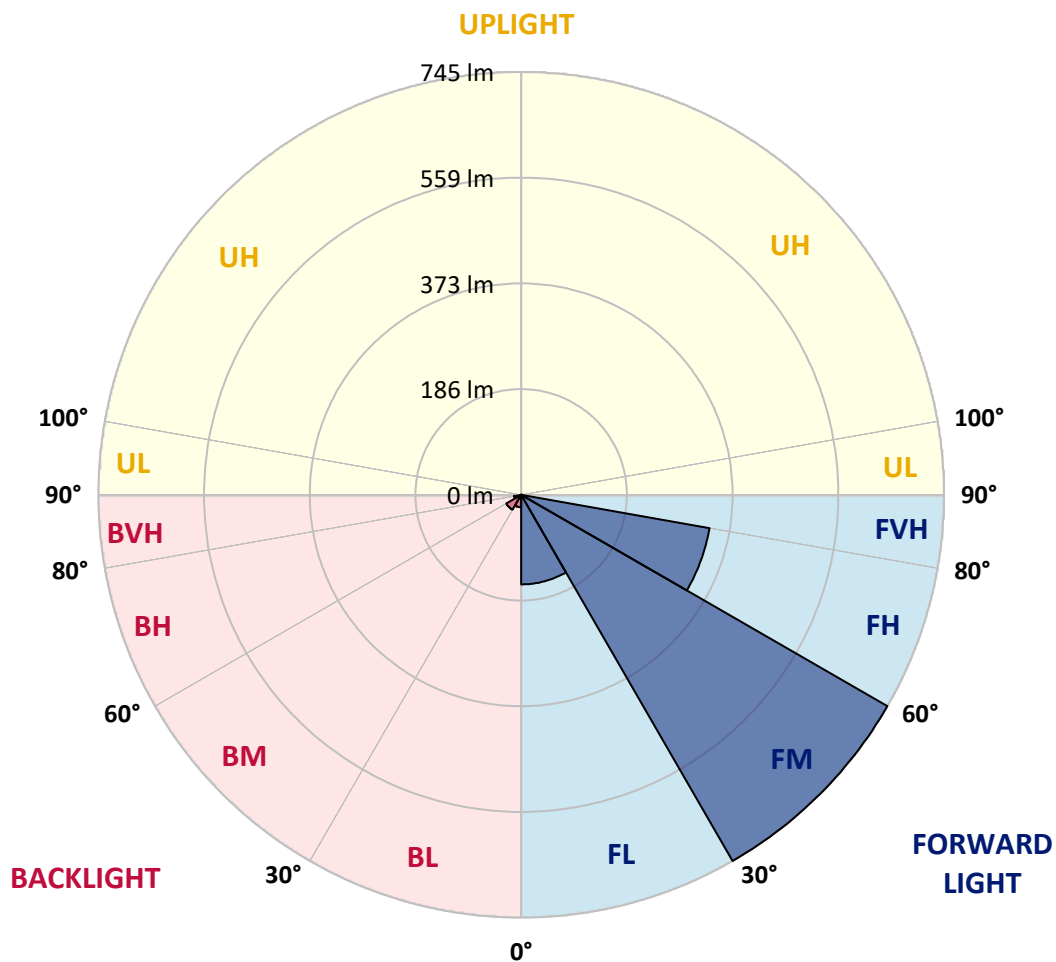
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.9	12.1			
FM (30°-60°)	745.1	57.0			
FH (60°-80°)	337.1	25.8			G0/660
FVH (80°-90°)	2.9	0.2			G0/10
BL (0°-30°)	21.9	1.7	B0/110		
BM (30°-60°)	30.4	2.3	B0/220		
BH (60°-80°)	12.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0
2.5°	165.6	161.9	162.8	160.4	156.0	147.1	139.4	132.2	123.8	123.5	116.6
5°	223.3	220.2	219.8	214.9	207.0	191.8	177.0	160.2	141.4	140.0	125.3
7.5°	275.7	273.2	272.3	266.5	251.8	237.0	217.7	193.0	163.6	161.0	137.0
10°	316.0	314.8	315.0	310.9	298.3	284.5	259.2	227.6	188.7	184.8	151.1
12.5°	346.5	346.7	348.8	346.3	339.2	329.0	302.0	264.6	216.6	211.3	167.2
15°	368.9	370.3	374.1	377.2	376.7	367.9	343.1	302.1	246.2	240.3	185.2
17.5°	383.4	385.0	390.5	397.5	403.9	401.8	382.8	338.4	276.1	269.3	204.4
20°	396.1	398.0	403.9	413.1	425.1	427.7	415.2	373.5	305.9	297.6	224.2
22.5°	423.7	423.6	427.2	432.6	444.0	450.6	442.7	406.1	335.4	326.8	244.4
25°	473.5	471.6	470.4	466.1	468.6	472.8	468.4	436.6	365.1	356.4	265.0
27.5°	532.8	533.9	523.7	512.3	503.5	499.2	492.0	464.9	393.7	384.0	285.0
30°	595.3	595.6	583.6	569.1	549.6	533.5	521.0	491.9	423.0	412.5	304.5
32.5°	651.7	649.5	637.5	617.7	593.2	575.1	549.1	522.0	454.1	443.9	326.2
35°	696.4	693.8	679.3	661.2	635.8	617.5	586.3	552.1	486.8	476.8	347.9
37.5°	729.1	726.0	711.1	692.5	670.6	659.9	629.5	584.8	522.4	511.7	370.8
40°	740.4	737.7	728.4	714.8	697.1	694.7	675.3	622.5	561.2	549.9	396.7
42.5°	733.7	731.0	727.7	723.1	715.8	718.1	718.5	665.4	604.3	593.1	425.3
45°	706.8	704.5	707.9	714.6	723.7	735.1	757.9	711.5	652.4	640.5	458.3
47.5°	667.3	665.6	675.1	691.9	718.5	749.8	793.9	760.0	706.5	695.4	499.6
50°	611.2	610.9	629.9	660.5	701.4	756.9	831.2	815.2	781.6	769.9	557.0
52.5°	523.7	524.3	561.7	610.6	671.5	752.1	855.2	886.0	868.9	856.8	606.6
55°	440.4	443.9	470.4	540.9	625.5	734.2	863.4	919.1	917.1	905.6	634.3
57.5°	358.9	365.1	390.7	456.5	558.4	693.0	858.9	933.4	953.0	944.2	670.7
60°	270.5	273.4	302.8	364.4	472.3	617.8	826.0	941.2	1002.0	996.0	723.6
62.5°	172.1	179.3	205.4	264.8	367.7	513.4	770.7	941.1	1063.4	1066.8	791.9
65°	90.7	99.0	112.9	164.1	252.7	396.8	687.4	932.2	1138.7	1143.4	845.2
67.5°	48.9	51.3	58.6	85.2	146.5	268.8	565.0	888.7	1182.3	1188.5	852.7
70°	35.8	37.1	39.8	47.1	73.8	156.1	412.3	789.9	1126.1	1123.8	757.6
72.5°	27.5	29.5	31.6	34.5	42.4	83.3	256.7	618.6	898.5	883.4	566.3
75°	21.7	22.0	24.9	27.6	31.8	47.5	114.0	360.3	548.4	512.6	293.7
77.5°	17.3	17.5	19.3	21.5	25.6	31.2	35.3	141.7	175.1	156.2	63.7
80°	10.3	10.8	14.3	16.6	21.2	19.7	12.9	30.8	27.3	24.8	10.7
82.5°	5.7	6.2	8.1	13.1	14.8	9.4	6.4	8.3	6.4	6.2	3.0
85°	0.0	0.3	5.2	8.1	6.0	2.1	2.7	2.8	1.9	1.8	1.2
87.5°	0.0	0.0	1.6	1.5	0.2	0.3	0.6	0.9	0.7	0.7	0.6
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°	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0
2.5°	113.1	110.0	104.2	98.5	93.6	89.7	86.1	84.7	83.6	83.4	82.5
5°	118.2	111.9	100.8	91.6	85.5	81.1	77.4	75.1	73.3	72.6	72.0
7.5°	125.8	116.3	100.3	89.8	82.4	75.1	68.2	60.8	56.1	54.3	53.3
10°	135.1	122.2	102.0	89.2	76.4	60.9	49.5	40.1	36.2	35.0	34.6
12.5°	145.9	129.5	105.0	86.0	63.6	43.3	34.2	30.9	30.1	29.7	29.7
15°	158.4	137.4	107.1	76.7	47.0	32.7	29.6	28.1	27.2	26.7	26.7
17.5°	171.1	145.2	106.1	63.3	34.7	29.1	26.8	25.2	23.9	23.4	23.3
20°	183.9	152.5	100.4	47.1	29.3	26.4	23.8	22.0	20.7	20.2	20.1
22.5°	197.2	158.6	90.3	34.6	26.4	23.4	20.9	19.1	17.9	17.4	17.2
25°	210.2	163.6	76.2	28.0	23.6	20.6	18.2	16.5	15.4	15.0	14.9
27.5°	222.3	166.7	59.8	24.7	21.1	18.1	15.9	14.4	13.5	13.1	13.1
30°	233.1	167.0	44.2	22.3	18.9	15.9	13.9	12.6	11.7	11.4	11.3
32.5°	244.1	164.6	32.2	20.1	16.9	14.0	12.0	11.0	10.4	10.1	10.1
35°	254.5	159.0	25.1	18.2	15.0	12.2	10.6	9.9	9.5	9.2	9.2
37.5°	264.7	151.1	21.3	16.6	13.1	10.7	9.3	8.9	8.6	8.3	8.3
40°	275.0	141.0	19.4	15.0	11.6	9.5	8.3	7.9	7.6	7.4	7.3
42.5°	287.6	129.5	18.1	13.6	10.3	8.4	7.3	6.9	6.6	6.4	6.3
45°	302.3	119.5	17.1	12.2	9.2	7.5	6.4	5.9	5.6	5.3	5.2
47.5°	323.5	112.3	15.7	10.6	8.2	6.5	5.5	5.0	4.5	4.2	4.1
50°	350.5	106.3	13.9	9.2	7.2	5.5	4.6	4.0	3.5	3.2	3.2
52.5°	363.9	98.5	12.3	8.0	6.0	4.6	3.7	3.0	2.8	2.5	2.5
55°	369.3	92.6	10.7	6.8	5.0	3.8	2.9	2.3	2.1	1.9	1.9
57.5°	384.4	90.8	9.3	5.8	4.1	3.0	2.2	1.7	1.6	1.4	1.4
60°	408.8	91.7	8.1	4.9	3.3	2.3	1.7	1.3	1.2	1.0	1.0
62.5°	435.1	90.6	6.8	4.2	2.6	1.7	1.1	1.0	1.0	0.6	0.5
65°	440.1	80.7	5.8	3.5	2.0	1.3	0.7	0.6	0.9	0.1	0.0
67.5°	408.5	62.6	5.0	2.7	1.5	1.0	0.6	0.3	0.7	0.0	0.0
70°	326.6	39.8	4.1	1.9	1.1	0.8	0.5	0.1	0.6	0.0	0.0
72.5°	231.0	23.1	3.2	1.4	1.0	0.6	0.3	0.0	0.3	0.0	0.0
75°	116.8	12.3	2.0	1.0	0.7	0.5	0.2	0.0	0.1	0.0	0.0
77.5°	25.3	5.7	1.3	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0
80°	5.5	2.5	0.8	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	1.3	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.2	0.1	0.1	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)