

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: P348918

Luminaire Tested: **ARCH-N-PA1-10-727-U-T2U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348918  
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-PA1-10-727-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1877 lumens  
Efficiency: N/A  
Efficacy: 134.1 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

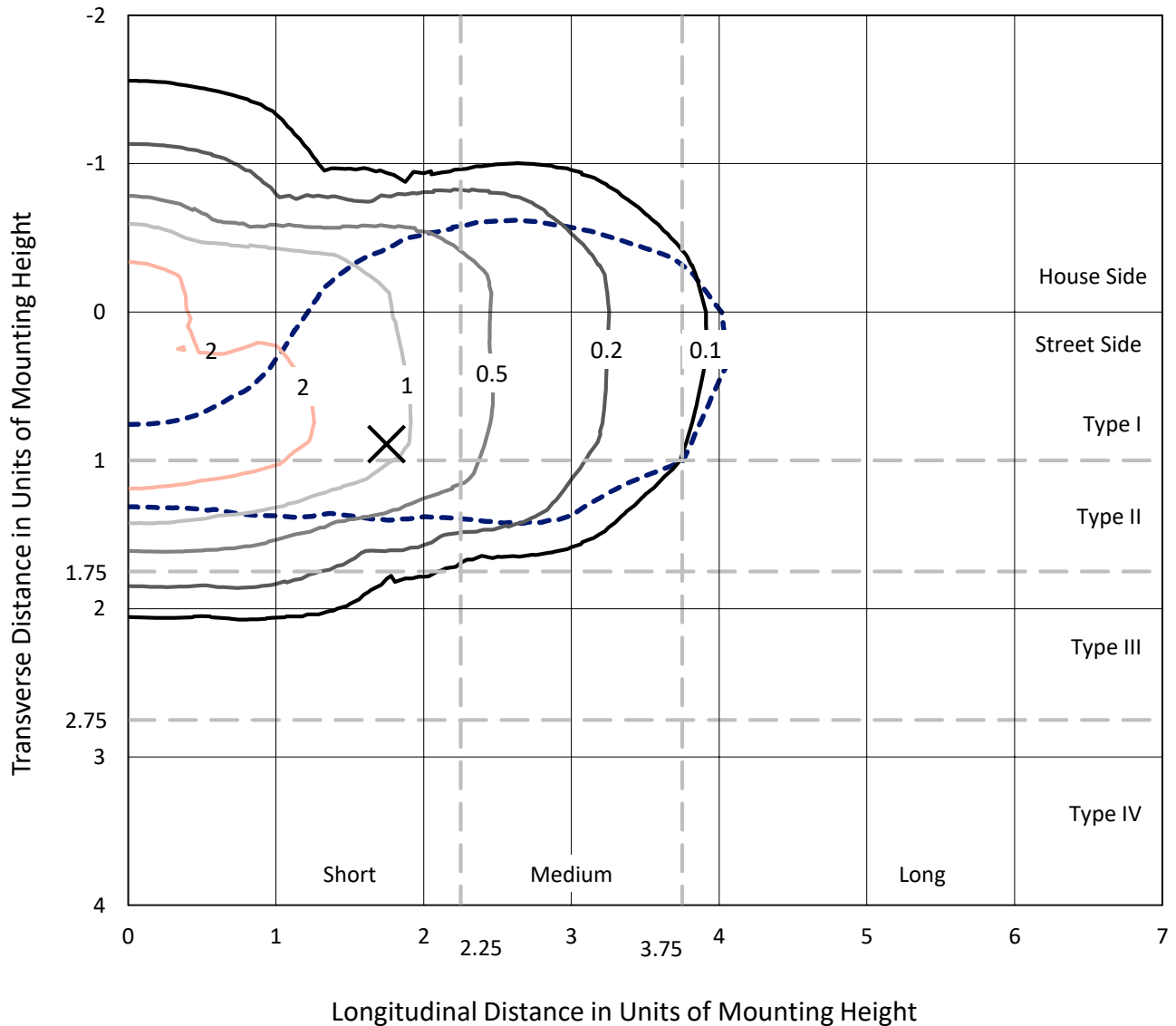
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

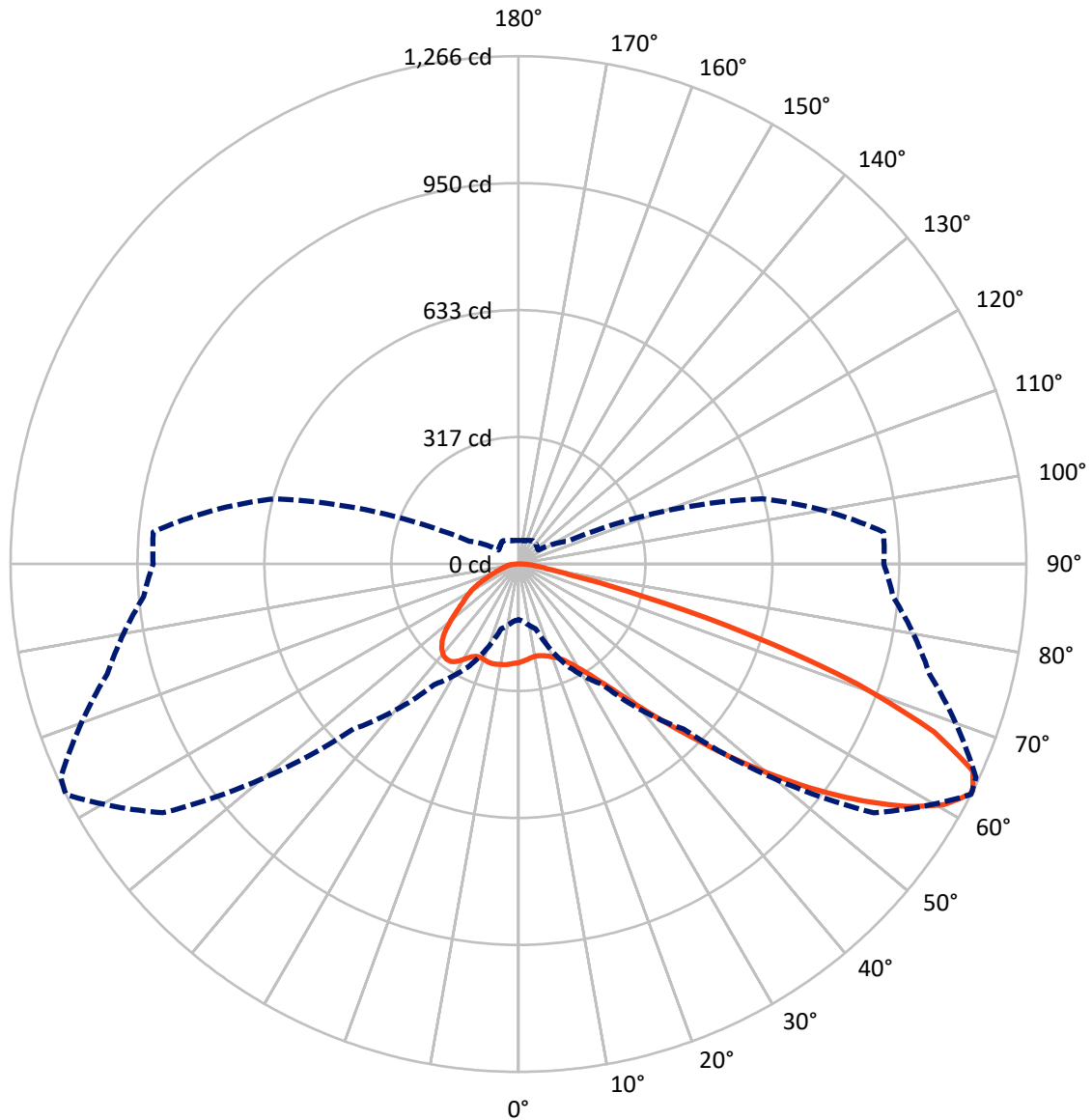
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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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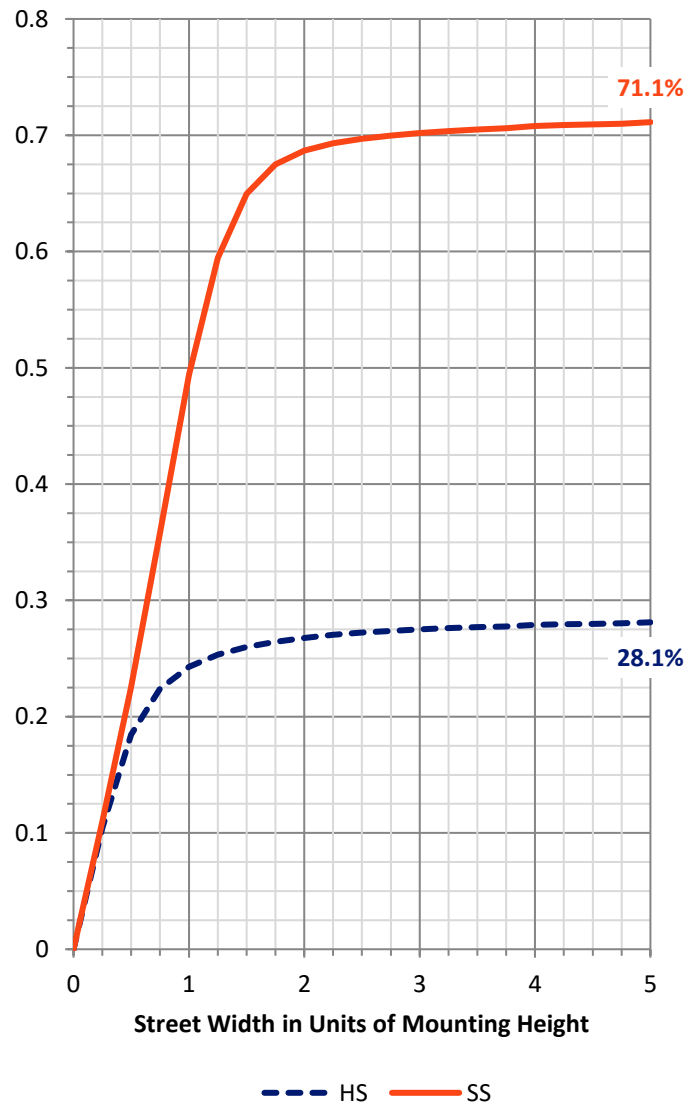
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	535.9	0.0	535.9
	% Fixture	28.5	0.0	28.5
<b>Street Side</b>	Lumens	1341.1	0.0	1341.1
	% Fixture	71.5	0.0	71.5
<b>Total</b>	Lumens	1877.0	0.0	1877.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.3	1.2
10°-20°	68.8	3.7
20°-30°	120.8	6.4
30°-40°	203.7	10.9
40°-50°	356.8	19.0
50°-60°	461.1	24.6
60°-70°	399.2	21.3
70°-80°	207.2	11.0
80°-90°	36.1	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°	1877.0	100.0
0°-180°	1877.0	100.0



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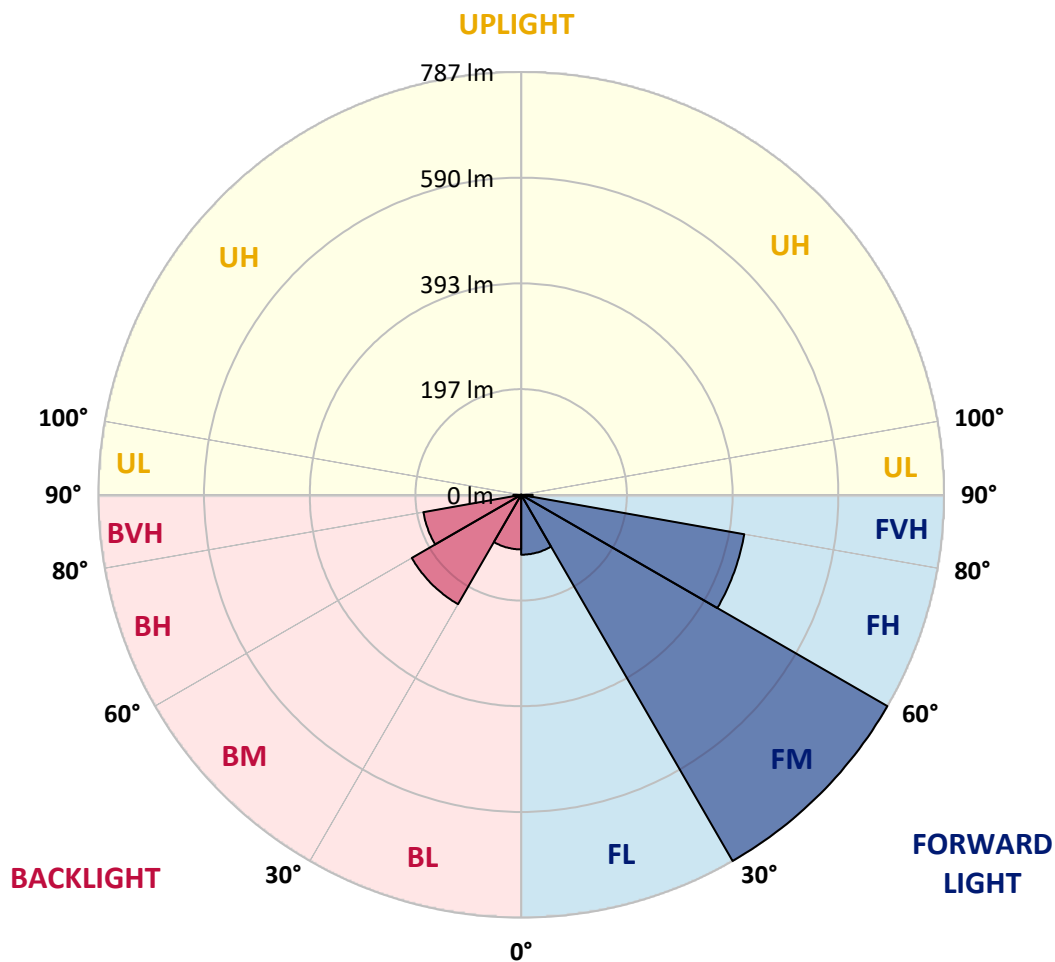
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.4	5.9			
FM (30°-60°)	786.7	41.9			
FH (60°-80°)	421.5	22.5			G0/660
FVH (80°-90°)	21.5	1.1			G1/100
BL (0°-30°)	101.5	5.4	B0/110		
BM (30°-60°)	234.9	12.5	B1/1000		
BH (60°-80°)	184.8	9.8	B1/500		G1/500
BVH (80°-90°)	14.6	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°	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8
2.5°	240.0	239.3	240.5	241.0	240.8	241.9	241.9	242.1	242.1	242.9	243.8
5°	232.9	232.6	233.8	234.7	235.4	237.0	238.0	238.6	239.1	240.3	242.4
7.5°	226.3	225.7	227.5	228.2	229.2	231.5	234.0	235.4	236.1	238.7	241.7
10°	220.8	220.6	222.0	222.7	224.0	227.3	230.8	233.8	234.3	237.8	240.7
12.5°	218.2	217.8	219.4	220.3	222.4	226.4	230.5	234.2	235.0	239.1	241.5
15°	220.3	220.6	222.0	222.2	224.7	228.9	233.5	237.1	238.0	242.1	243.8
17.5°	230.3	230.1	231.0	230.6	231.5	233.6	238.6	241.5	242.6	245.6	247.0
20°	248.4	247.9	248.6	246.3	242.4	241.4	244.3	247.7	248.0	249.8	248.9
22.5°	276.0	276.5	274.9	269.1	259.8	255.4	253.5	254.5	255.8	255.6	253.0
25°	312.0	313.7	310.7	300.6	284.9	274.7	267.7	266.1	267.0	264.6	260.5
27.5°	359.2	360.6	354.1	338.3	317.2	302.1	288.1	282.6	282.6	277.4	270.0
30°	411.2	412.1	401.7	381.7	357.3	334.8	314.1	303.5	302.7	292.3	280.7
32.5°	474.5	472.0	459.7	434.9	404.2	373.3	346.6	330.6	328.8	313.2	298.5
35°	556.2	556.2	530.7	502.4	465.0	425.6	390.5	365.7	364.0	346.2	327.1
37.5°	644.9	644.5	621.5	582.5	537.7	489.6	442.7	411.8	407.7	388.7	367.3
40°	733.2	730.2	711.6	674.6	626.8	571.8	507.1	471.1	469.2	442.1	415.3
42.5°	797.9	795.1	786.3	761.5	730.1	690.4	590.9	542.3	539.5	505.4	472.5
45°	833.5	829.5	828.3	828.6	832.1	831.9	694.4	626.4	616.6	577.1	533.3
47.5°	825.4	816.0	828.6	861.1	915.7	951.6	814.9	726.4	708.1	651.5	598.1
50°	760.3	755.7	782.8	849.0	961.2	1045.4	947.5	830.2	804.4	722.0	659.4
52.5°	645.9	654.7	688.1	782.2	953.0	1102.1	1068.0	938.0	902.2	789.1	712.7
55°	514.2	525.2	572.3	672.1	876.6	1102.8	1155.0	1042.6	1010.6	858.5	767.1
57.5°	374.2	389.8	448.6	540.2	742.5	1027.5	1197.9	1140.4	1103.9	926.8	820.4
60°	235.0	246.1	310.2	416.3	567.6	861.1	1187.1	1218.8	1188.5	991.3	881.1
62.5°	151.4	156.7	184.4	297.2	395.8	631.5	1107.9	1263.7	1250.7	1050.1	927.0
63°	138.8	143.3	167.1	274.7	367.0	581.8	1081.2	1266.0	1258.3	1061.2	937.7
65°	99.3	104.2	116.5	188.8	270.9	390.3	926.5	1244.8	1253.4	1079.6	952.3
67.5°	78.3	79.9	85.5	114.7	192.2	221.7	623.4	1117.8	1155.5	1060.0	930.7
70°	70.1	71.3	77.6	88.0	145.4	143.7	325.2	898.7	976.9	992.9	876.2
72.5°	61.1	62.0	69.7	82.9	111.0	109.8	141.4	604.3	699.3	869.9	800.9
75°	50.6	51.5	58.0	73.6	94.0	86.8	88.5	315.8	400.9	681.9	702.3
77.5°	41.6	42.2	47.6	59.2	82.7	66.9	68.5	132.8	194.8	464.8	554.6
80°	30.2	30.4	35.5	45.0	63.2	60.4	50.9	72.4	88.4	254.7	348.9
82.5°	21.1	21.3	26.5	31.4	43.6	60.3	37.1	48.5	53.1	117.3	155.3
85°	14.8	14.4	18.1	20.7	27.6	36.5	28.3	31.1	32.8	50.8	41.8
87.5°	6.5	6.3	10.2	11.1	13.9	16.9	22.5	16.3	17.4	24.6	13.2
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°	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8	245.8
2.5°	244.0	244.7	245.8	247.3	248.6	249.1	250.1	250.3	251.9	250.5	250.7
5°	243.6	244.5	246.8	249.6	251.6	253.0	255.6	256.5	258.1	257.3	257.2
7.5°	243.1	244.7	248.0	252.1	255.1	257.3	259.8	261.4	263.0	262.6	262.3
10°	242.4	244.3	249.1	253.1	257.3	259.8	261.6	261.7	262.3	261.9	261.0
12.5°	242.9	245.1	250.5	254.5	258.9	260.7	260.2	257.5	255.2	253.3	253.0
15°	244.7	247.2	252.3	255.9	259.5	258.4	255.2	249.4	245.2	242.8	242.9
17.5°	246.5	248.6	252.4	255.4	257.2	254.0	249.1	244.2	242.2	240.3	240.0
20°	248.0	248.4	250.8	253.5	253.3	250.8	246.3	240.3	236.4	233.3	233.5
22.5°	250.5	249.1	249.3	250.8	252.8	250.5	239.8	229.4	223.6	219.9	219.8
25°	256.1	253.1	250.3	251.2	258.6	244.0	225.9	212.4	207.3	203.9	204.3
27.5°	263.8	259.8	254.2	258.9	263.0	231.2	206.1	192.2	188.7	185.2	186.0
30°	272.3	266.5	259.6	275.6	258.1	210.8	181.5	168.8	165.7	162.3	163.0
32.5°	287.4	278.8	269.8	295.6	246.6	186.0	155.6	144.2	142.1	140.0	140.2
35°	312.5	302.3	292.7	310.9	231.9	160.2	132.5	124.4	122.6	120.2	120.2
37.5°	349.6	333.6	328.5	319.0	211.7	136.1	115.4	110.0	106.3	102.9	102.9
40°	392.6	373.6	369.6	321.5	185.3	116.1	103.5	98.7	93.8	88.9	89.2
42.5°	445.0	419.3	410.0	318.1	153.4	103.3	95.0	89.6	84.8	80.6	79.9
45°	504.0	471.5	447.9	308.5	124.4	95.4	89.6	83.1	77.1	73.4	72.7
47.5°	564.2	528.0	481.5	289.1	104.0	89.8	85.9	76.8	72.5	70.1	69.7
50°	621.9	584.1	509.3	258.8	92.2	85.7	80.5	73.8	70.3	68.2	68.0
52.5°	673.0	637.3	532.6	227.3	84.3	82.4	78.0	72.4	68.7	66.8	66.4
55°	721.6	691.2	555.8	199.2	77.5	76.8	76.8	71.0	66.9	65.2	64.8
57.5°	775.0	752.5	579.2	178.7	71.3	72.7	75.2	69.4	65.0	63.4	63.2
60°	836.7	823.5	603.8	160.6	65.9	68.3	72.9	67.3	62.7	61.5	61.1
62.5°	899.8	900.1	625.0	138.8	61.3	65.0	70.3	65.3	60.6	59.7	59.6
63°	910.8	914.0	628.0	134.0	60.3	64.3	69.6	64.6	60.1	59.2	59.0
65°	938.0	951.9	630.5	114.0	56.4	61.7	66.9	62.4	57.8	57.6	57.3
67.5°	931.5	954.2	615.2	89.4	52.0	58.0	63.2	59.0	55.0	55.0	54.3
70°	883.1	897.8	568.3	69.0	48.7	54.1	58.8	55.5	51.3	51.6	50.2
72.5°	808.8	792.6	467.4	53.9	44.6	49.7	53.8	50.9	47.3	46.9	45.3
75°	699.8	646.6	334.8	43.6	39.7	43.9	48.1	46.0	42.7	40.8	40.4
77.5°	533.3	459.0	200.6	36.9	35.5	39.0	41.6	40.1	37.4	35.1	35.3
80°	317.6	264.7	90.5	31.3	30.7	33.4	35.5	34.3	32.5	29.7	29.0
82.5°	128.6	102.4	40.6	25.3	26.0	27.9	29.9	28.8	27.4	26.7	22.7
85°	33.4	32.1	23.7	19.0	20.0	20.9	23.5	23.5	22.3	18.3	16.9
87.5°	9.5	12.6	13.2	11.9	13.5	13.7	16.3	16.3	16.7	11.2	10.2
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)