

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: P459574

Luminaire Tested: **ARCH-M-PA2-60-AMB-U-T4W**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-M-PA2-60-AMB-U-T4W  
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2720 lumens  
Efficiency: N/A  
Efficacy: 44.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

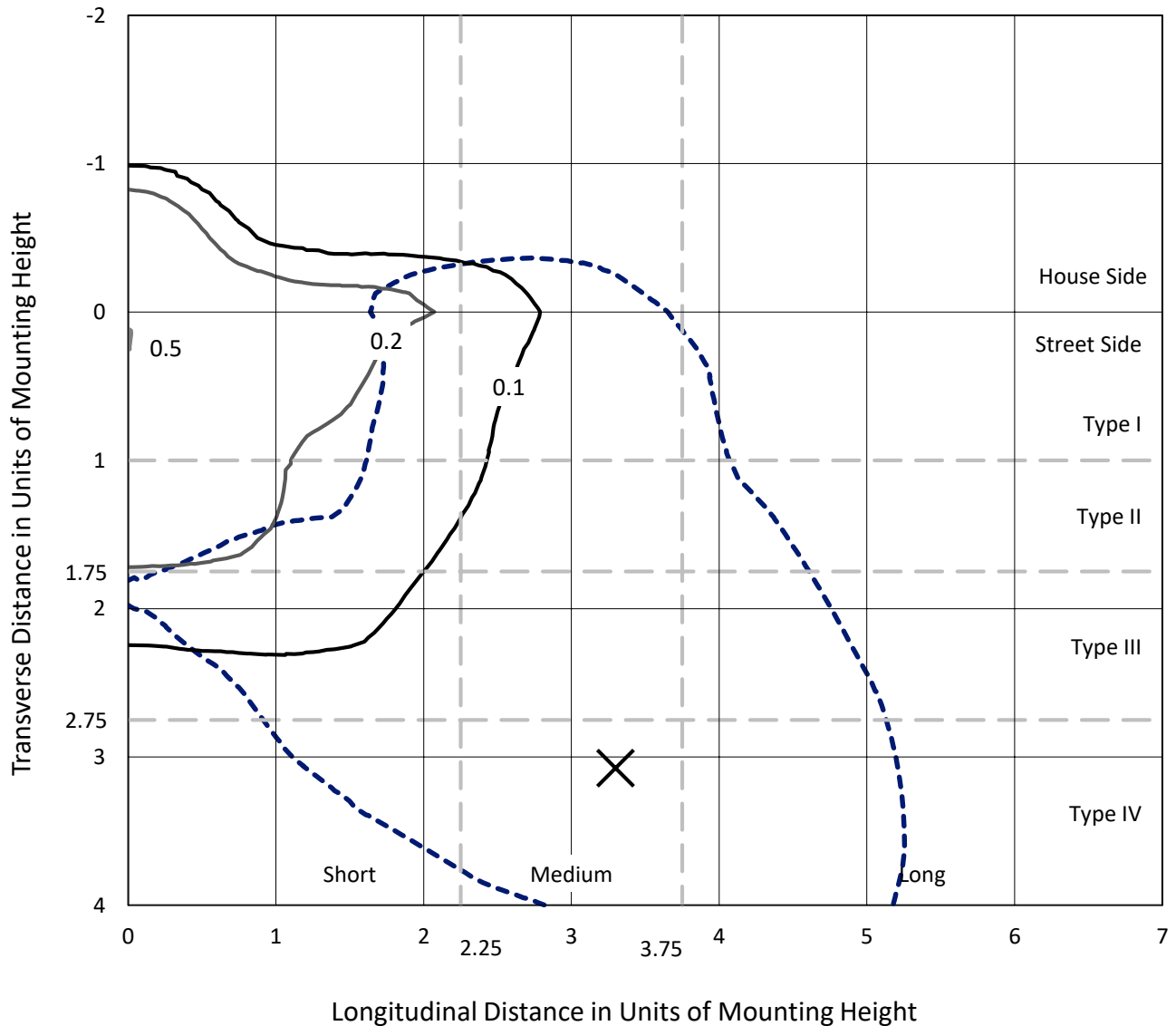
Input Watts (W): 60.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

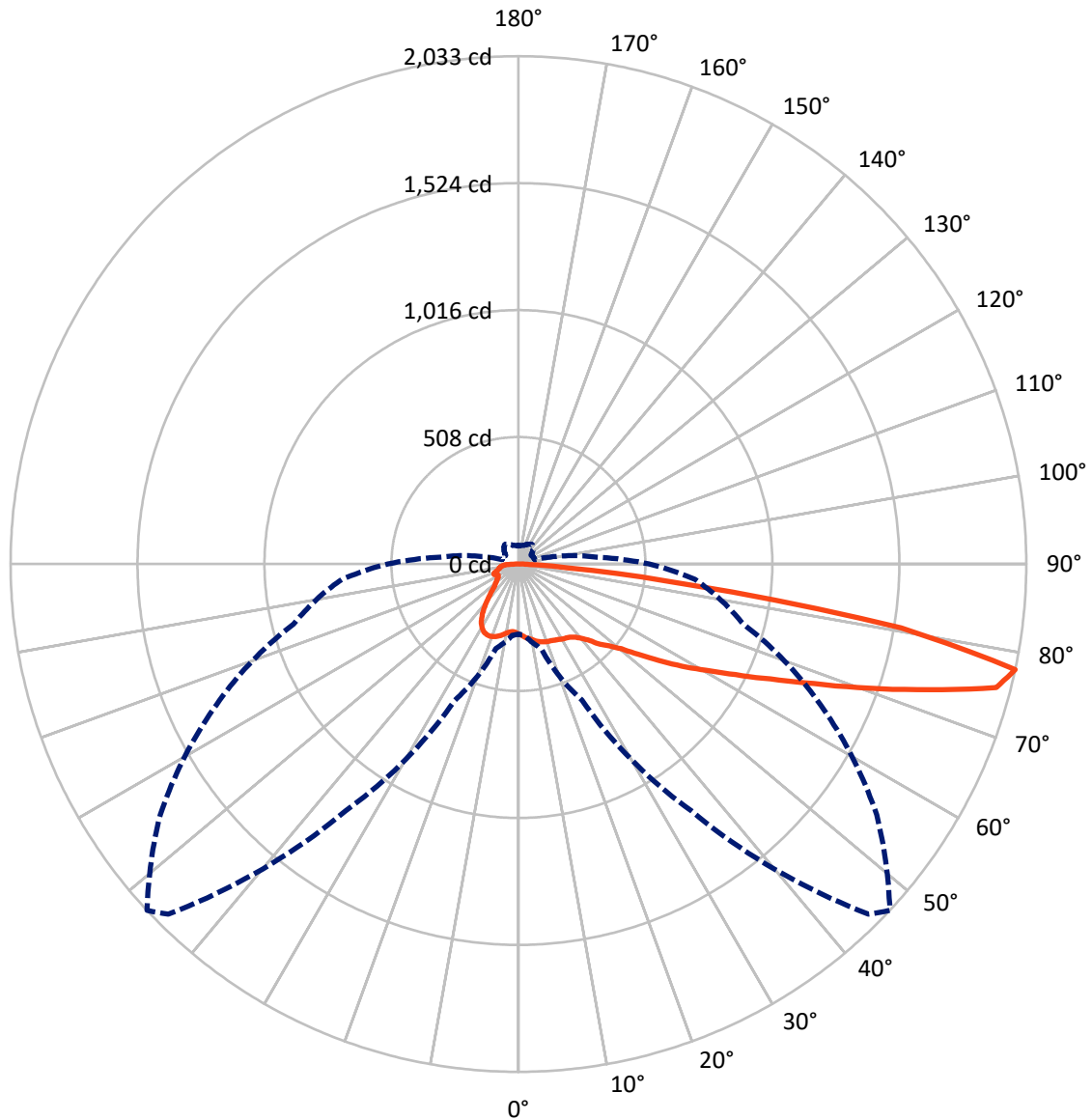
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 77.5-Deg Vertical



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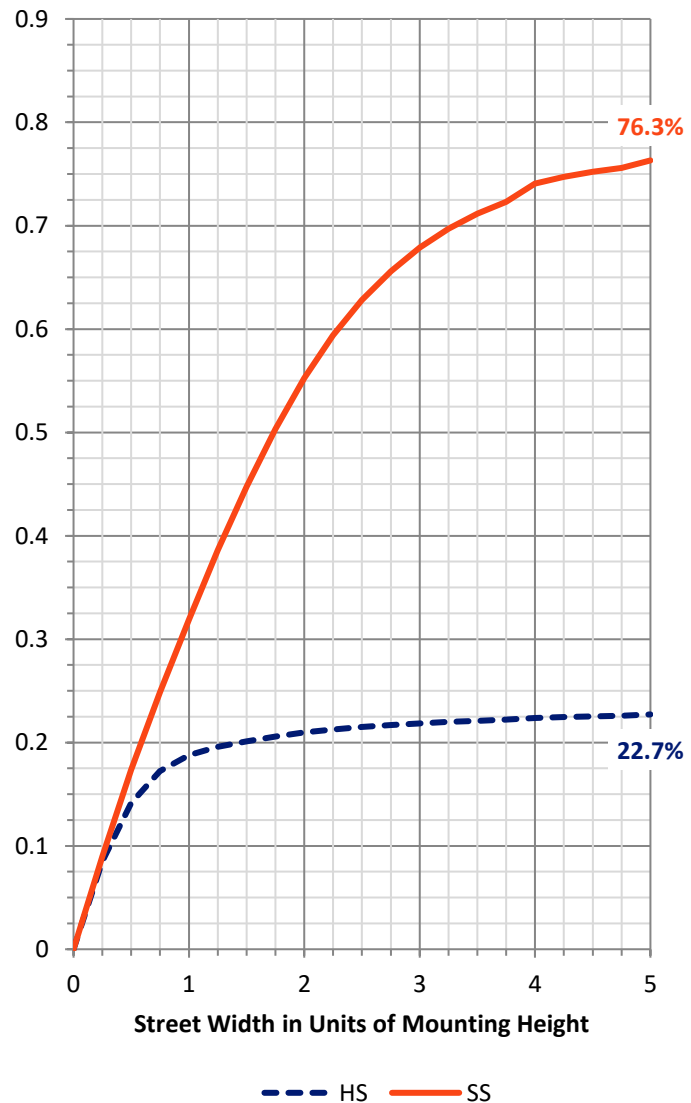
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	636.0	0.0	636.0
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2084.0	0.0	2084.0
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2720.0	0.0	2720.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	1.0
10°-20°	87.6	3.2
20°-30°	151.0	5.6
30°-40°	210.8	7.8
40°-50°	277.8	10.2
50°-60°	438.9	16.1
60°-70°	710.4	26.1
70°-80°	685.1	25.2
80°-90°	130.8	4.8
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°	2720.0	100.0
0°-180°	2720.0	100.0



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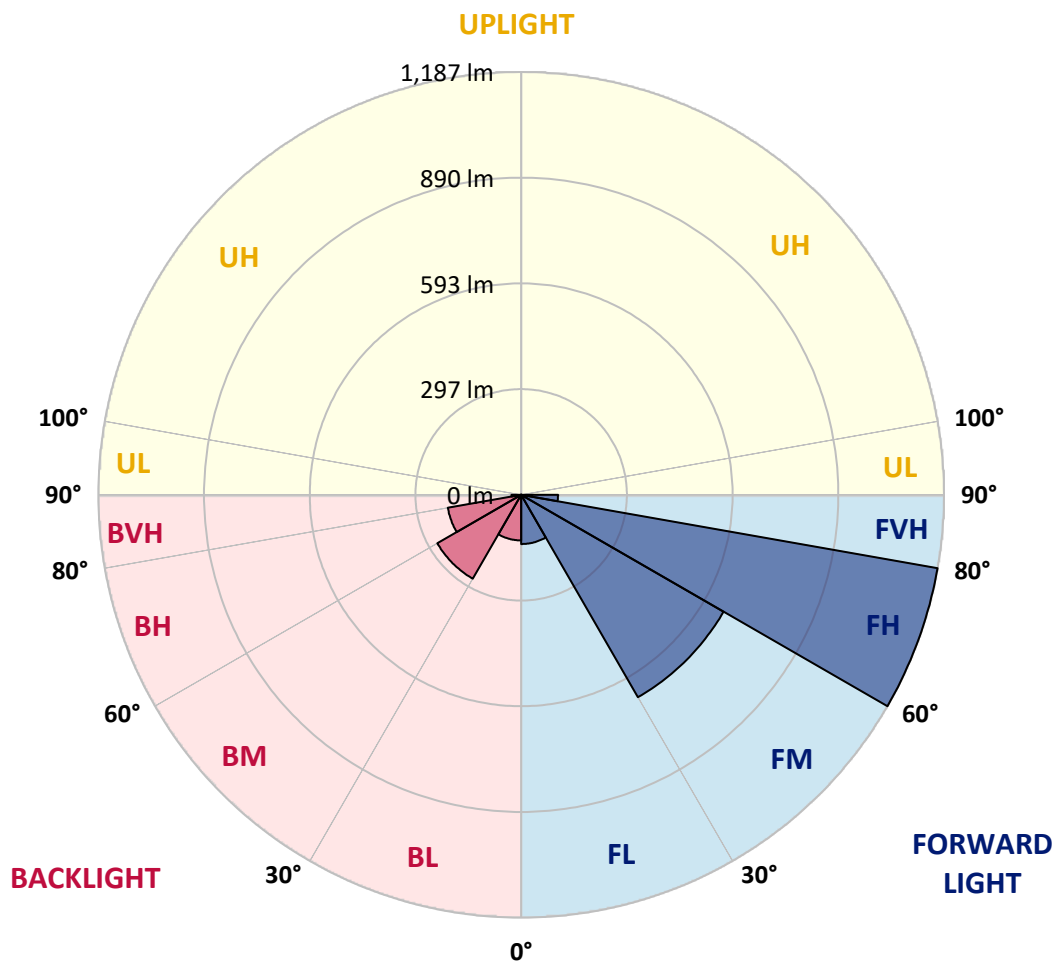
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.2	5.1			
FM	(30°-60°)	655.8	24.1			
FH	(60°-80°)	1186.6	43.6			G1/1800
FVH	(80°-90°)	103.5	3.8			G2/225
BL	(0°-30°)	127.9	4.7	B1/500		
BM	(30°-60°)	271.7	10.0	B1/1000		
BH	(60°-80°)	209.0	7.7	B1/500		G1/500
BVH	(80°-90°)	27.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4
2.5°	293.1	293.1	293.1	291.0	291.0	286.7	286.7	284.6	282.5	280.4	278.2
5°	310.1	312.2	310.1	305.8	301.6	295.2	295.2	291.0	286.7	280.4	276.1
7.5°	325.0	325.0	320.7	316.5	310.1	303.7	301.6	297.3	288.8	282.5	276.1
10°	333.4	331.3	329.2	325.0	316.5	310.1	308.0	303.7	295.2	286.7	278.2
12.5°	339.8	339.8	337.7	329.2	322.8	316.5	316.5	310.1	303.7	295.2	284.6
15°	346.2	348.3	344.1	335.6	327.1	322.8	322.8	318.6	312.2	303.7	291.0
17.5°	348.3	348.3	346.2	335.6	331.3	327.1	327.1	325.0	318.6	310.1	297.3
20°	346.2	348.3	348.3	335.6	331.3	331.3	331.3	329.2	322.8	316.5	305.8
22.5°	350.4	350.4	350.4	335.6	333.4	333.4	333.4	333.4	329.2	322.8	312.2
25°	350.4	350.4	350.4	335.6	333.4	335.6	337.7	337.7	335.6	329.2	318.6
27.5°	354.7	354.7	352.6	337.7	337.7	339.8	341.9	344.1	344.1	337.7	327.1
30°	363.2	361.1	361.1	341.9	339.8	346.2	348.3	352.6	352.6	346.2	335.6
32.5°	375.9	373.8	371.7	350.4	346.2	350.4	352.6	358.9	363.2	354.7	346.2
35°	395.0	390.8	384.4	365.3	356.8	358.9	358.9	367.4	373.8	367.4	356.8
37.5°	420.5	416.3	407.8	386.5	373.8	371.7	371.7	380.2	388.7	384.4	373.8
40°	452.4	450.3	450.3	416.3	392.9	390.8	390.8	395.0	405.7	403.5	395.0
42.5°	509.7	511.9	516.1	452.4	418.4	420.5	418.4	416.3	426.9	426.9	418.4
45°	579.8	571.3	581.9	503.4	452.4	454.5	458.8	446.0	454.5	454.5	448.1
47.5°	664.8	656.3	639.3	575.6	503.4	488.5	488.5	484.2	494.9	494.9	488.5
50°	734.9	728.5	709.4	645.7	584.1	535.2	533.1	535.2	545.8	552.2	552.2
52.5°	807.1	796.5	773.1	728.5	673.3	603.2	598.9	596.8	615.9	632.9	641.4
55°	843.2	836.8	830.4	815.6	758.2	688.1	679.6	673.3	707.2	730.6	747.6
57.5°	913.3	911.1	911.1	921.8	879.3	781.6	771.0	764.6	819.8	843.2	870.8
60°	994.0	991.8	1021.6	1042.8	996.1	881.4	862.3	872.9	940.9	970.6	1011.0
62.5°	1028.0	1044.9	1117.2	1183.0	1151.1	987.6	974.9	998.2	1076.8	1095.9	1166.0
65°	968.5	977.0	1140.5	1261.6	1333.8	1125.7	1108.7	1142.6	1219.1	1223.4	1318.9
67.5°	870.8	883.5	1040.7	1295.6	1467.6	1289.2	1276.4	1297.7	1348.7	1310.4	1433.6
70°	788.0	798.6	928.1	1265.8	1552.6	1493.1	1486.7	1459.1	1431.5	1333.8	1491.0
72.5°	732.7	732.7	841.1	1174.5	1616.3	1718.2	1718.2	1605.6	1461.2	1284.9	1433.6
75°	573.4	567.1	681.8	994.0	1554.7	1949.7	1975.2	1743.7	1459.1	1191.5	1134.1
77.5°	280.4	286.7	350.4	601.1	1206.4	1981.6	2032.5	1750.1	1333.8	932.4	709.4
80°	80.7	85.0	116.8	197.5	632.9	1452.7	1552.6	1333.8	938.8	579.8	327.1
82.5°	29.7	31.9	53.1	95.6	278.2	601.1	692.4	620.2	458.8	267.6	114.7
85°	17.0	17.0	29.7	55.2	146.5	169.9	199.6	218.8	206.0	116.8	46.7
87.5°	6.4	8.5	14.9	27.6	87.1	44.6	44.6	80.7	97.7	57.3	17.0
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°	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4
2.5°	276.1	276.1	274.0	274.0	274.0	274.0	274.0	274.0	276.1	276.1	276.1
5°	274.0	271.9	269.7	269.7	269.7	271.9	274.0	278.2	280.4	280.4	280.4
7.5°	274.0	271.9	269.7	269.7	271.9	274.0	278.2	282.5	286.7	288.8	288.8
10°	276.1	274.0	271.9	274.0	276.1	280.4	284.6	288.8	293.1	297.3	297.3
12.5°	280.4	278.2	276.1	280.4	284.6	288.8	291.0	293.1	297.3	301.6	303.7
15°	286.7	284.6	282.5	288.8	293.1	297.3	299.5	299.5	301.6	308.0	308.0
17.5°	293.1	288.8	291.0	297.3	301.6	303.7	303.7	303.7	303.7	310.1	312.2
20°	299.5	297.3	299.5	308.0	308.0	308.0	305.8	308.0	310.1	316.5	316.5
22.5°	308.0	305.8	310.1	314.3	312.2	310.1	308.0	310.1	310.1	318.6	318.6
25°	316.5	316.5	322.8	322.8	312.2	308.0	308.0	312.2	314.3	322.8	322.8
27.5°	325.0	329.2	333.4	325.0	310.1	303.7	305.8	312.2	318.6	325.0	327.1
30°	333.4	339.8	341.9	320.7	299.5	293.1	301.6	312.2	318.6	325.0	329.2
32.5°	344.1	352.6	348.3	308.0	280.4	280.4	293.1	308.0	316.5	320.7	322.8
35°	358.9	367.4	348.3	291.0	257.0	259.1	276.1	295.2	308.0	312.2	314.3
37.5°	378.0	388.7	350.4	267.6	231.5	233.6	250.6	269.7	288.8	295.2	297.3
40°	401.4	414.2	348.3	242.1	206.0	203.9	216.6	235.7	257.0	267.6	269.7
42.5°	429.0	441.8	346.2	216.6	182.7	174.2	180.5	195.4	214.5	223.0	223.0
45°	458.8	475.7	346.2	195.4	163.5	148.7	150.8	157.2	163.5	165.7	163.5
47.5°	503.4	516.1	346.2	180.5	146.5	127.4	125.3	127.4	125.3	116.8	116.8
50°	571.3	573.4	346.2	169.9	133.8	116.8	110.4	106.2	99.8	93.5	93.5
52.5°	664.8	647.8	348.3	157.2	121.1	108.3	101.9	95.6	87.1	82.8	82.8
55°	779.5	749.7	352.6	142.3	110.4	101.9	95.6	91.3	85.0	80.7	82.8
57.5°	923.9	885.7	358.9	127.4	99.8	95.6	93.5	89.2	85.0	85.0	87.1
60°	1115.0	1055.6	363.2	114.7	91.3	93.5	95.6	95.6	91.3	95.6	95.6
62.5°	1359.3	1234.0	316.5	106.2	87.1	93.5	106.2	106.2	101.9	104.1	104.1
65°	1595.0	1365.7	216.6	99.8	85.0	104.1	116.8	110.4	99.8	93.5	93.5
67.5°	1703.3	1416.6	140.2	93.5	80.7	112.6	116.8	104.1	93.5	89.2	87.1
70°	1646.0	1333.8	108.3	87.1	80.7	108.3	112.6	99.8	89.2	87.1	85.0
72.5°	1391.1	1083.2	91.3	80.7	76.5	97.7	106.2	95.6	85.0	82.8	80.7
75°	953.6	671.1	80.7	74.3	68.0	89.2	99.8	91.3	82.8	78.6	76.5
77.5°	522.5	312.2	68.0	65.8	61.6	82.8	95.6	87.1	76.5	74.3	72.2
80°	212.4	135.9	57.3	57.3	57.3	78.6	89.2	80.7	70.1	68.0	63.7
82.5°	97.7	63.7	44.6	48.8	51.0	74.3	85.0	76.5	65.8	65.8	59.5
85°	44.6	40.4	31.9	36.1	40.4	65.8	78.6	70.1	61.6	57.3	53.1
87.5°	19.1	23.4	19.1	21.2	29.7	55.2	70.1	63.7	55.2	48.8	48.8
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)