

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: P459569

Luminaire Tested: **ARCH-M-PA2-60-AMB-U-T2U-HSS**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-11)  
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-T2U-HSS  
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II  
U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1943 lumens  
Efficiency: N/A  
Efficacy: 32.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 60.6  
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

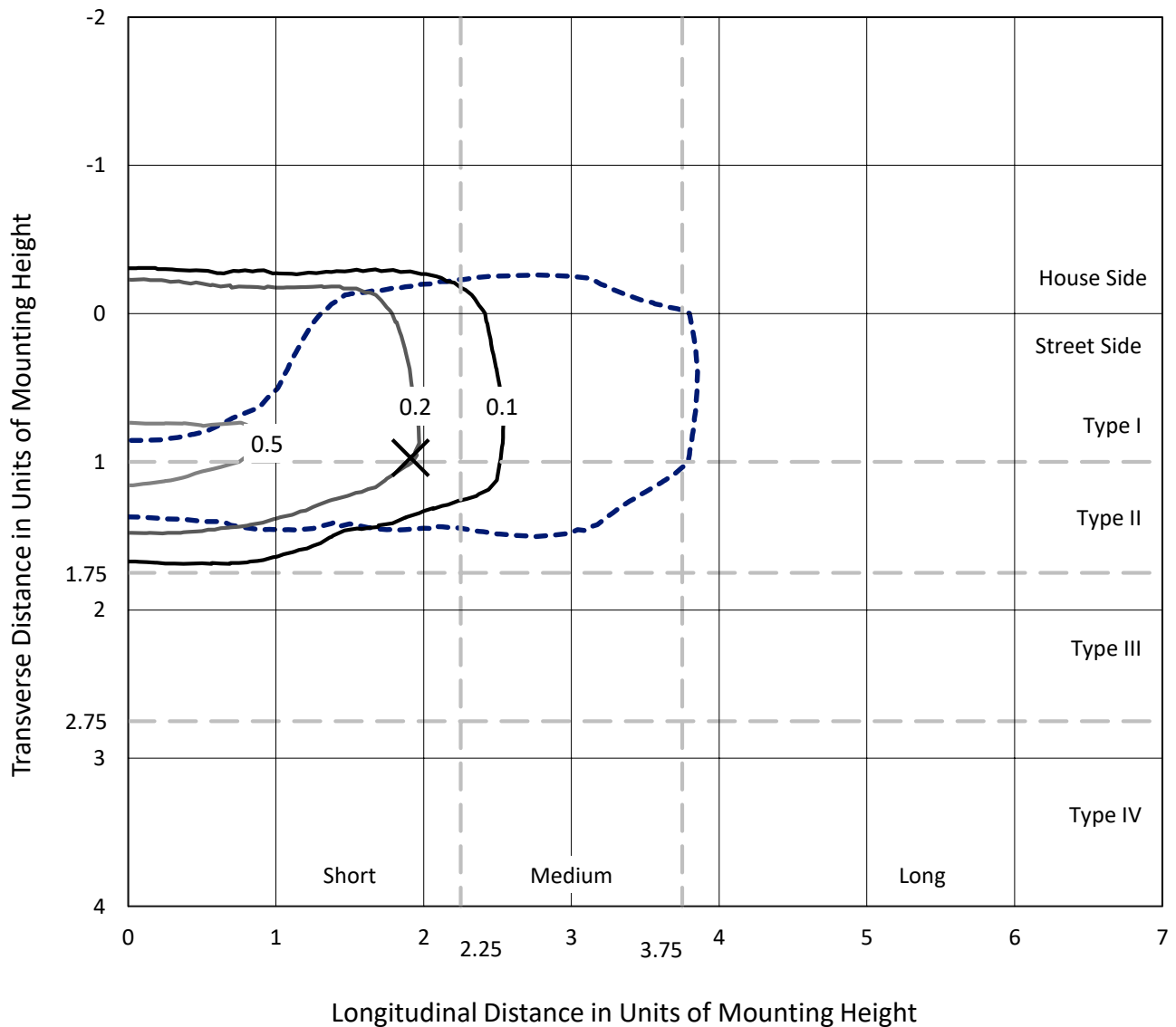


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

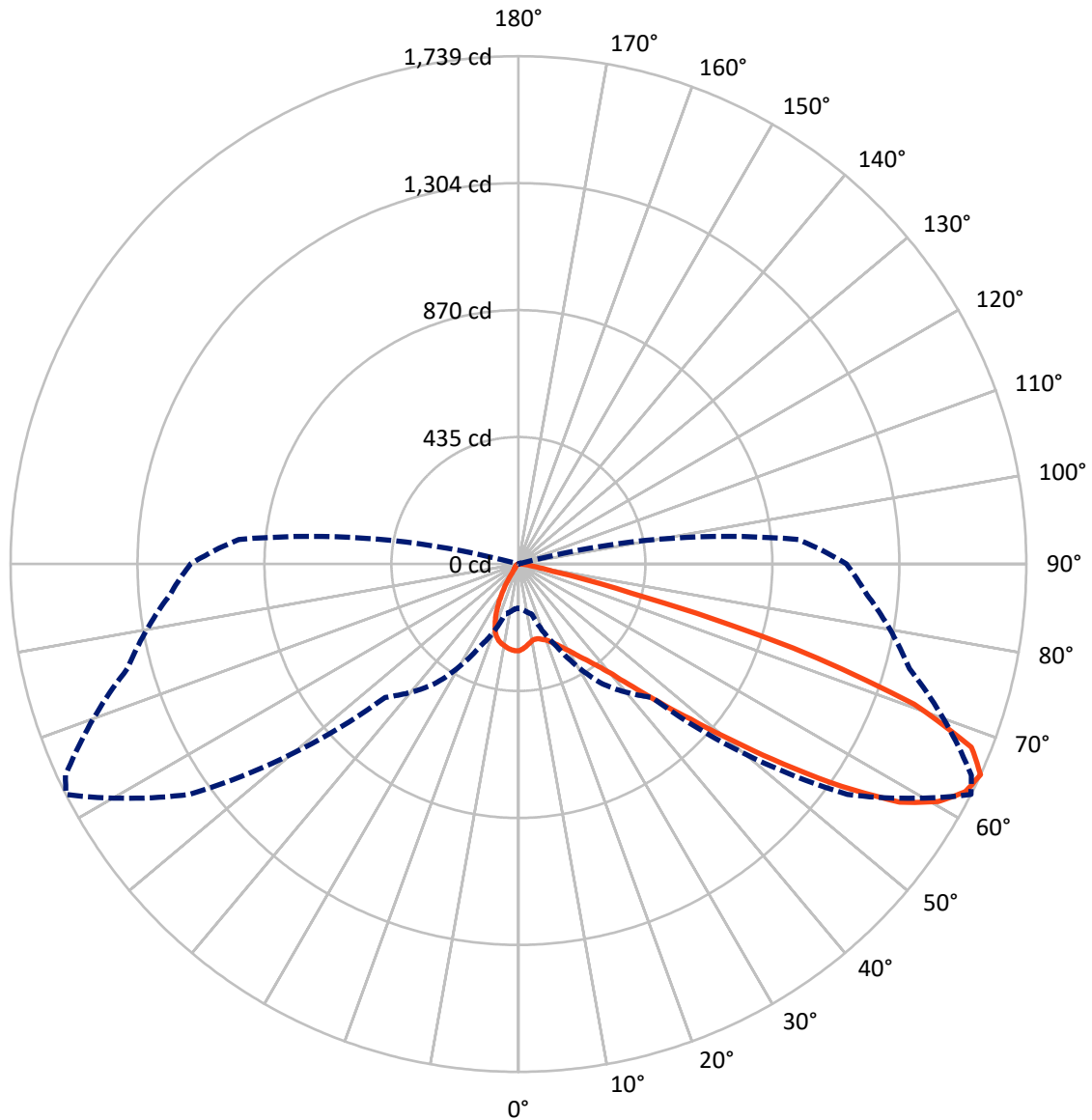


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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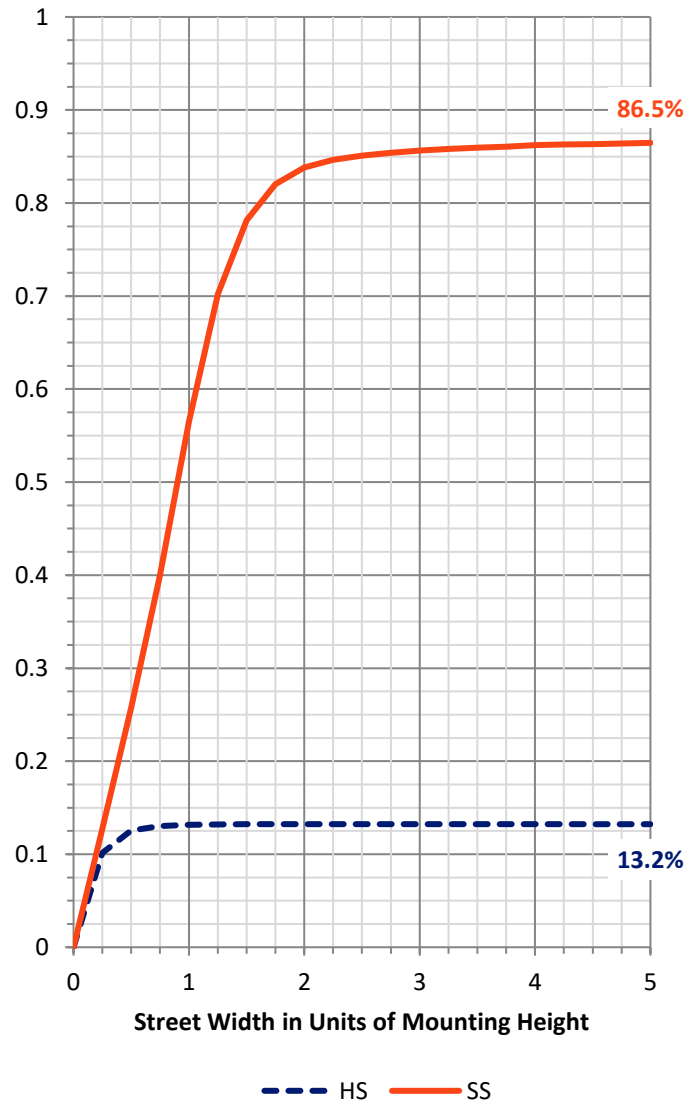
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	260.1	0.0	260.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	1682.9	0.0	1682.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	1943.0	0.0	1943.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.6	1.4
10°-20°	64.1	3.3
20°-30°	93.0	4.8
30°-40°	166.7	8.6
40°-50°	361.7	18.6
50°-60°	548.8	28.2
60°-70°	465.5	24.0
70°-80°	205.0	10.5
80°-90°	11.5	0.6
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°	1943.0	100.0
0°-180°	1943.0	100.0



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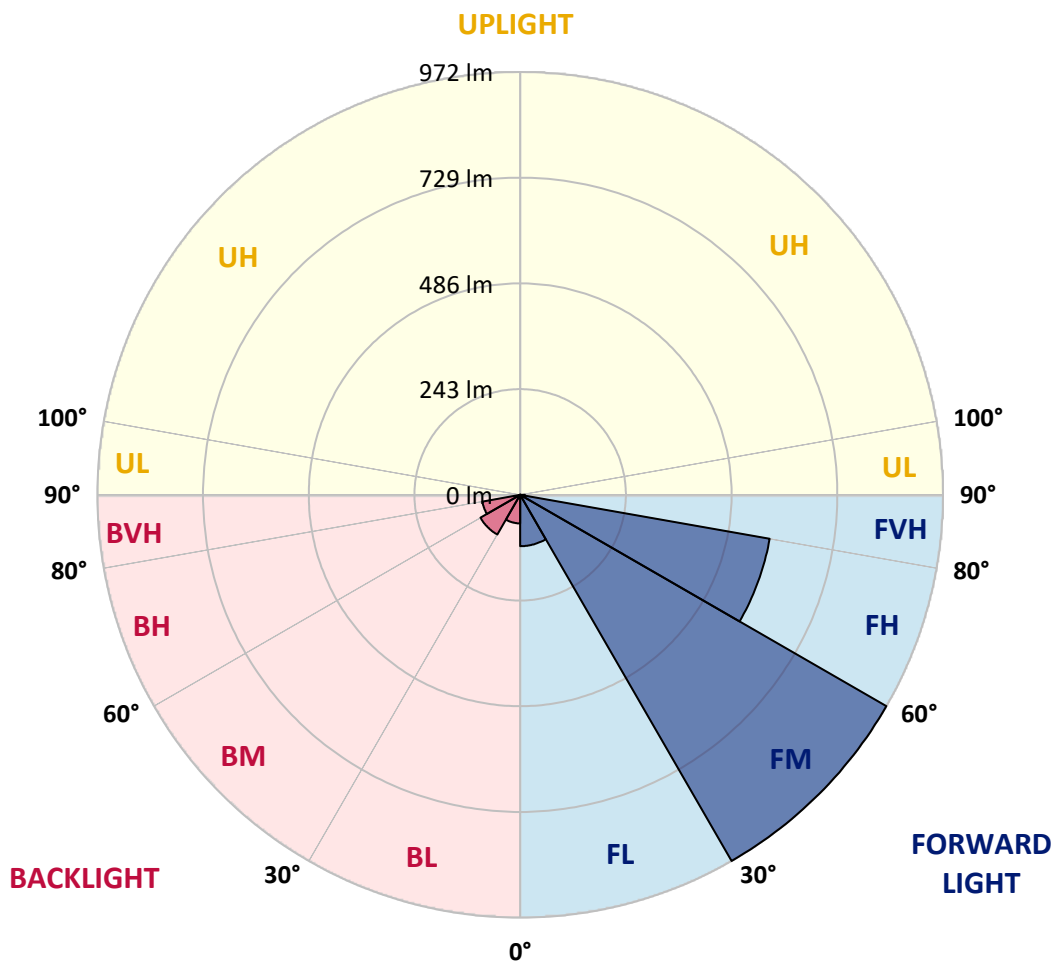
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.0	6.1			
FM (30°-60°)	971.9	50.0			
FH (60°-80°)	582.2	30.0			G0/660
FVH (80°-90°)	10.7	0.6			G1/100
BL (0°-30°)	65.7	3.4	B0/110		
BM (30°-60°)	105.3	5.4	B0/220		
BH (60°-80°)	88.2	4.5	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	284.6	284.6	284.6	286.7	286.7	288.8	288.8	290.9	290.9	293.1	295.2
5°	267.6	267.6	269.7	269.7	271.8	273.9	278.2	282.4	282.4	286.7	290.9
7.5°	257.0	257.0	257.0	259.1	261.2	263.3	267.6	273.9	273.9	280.3	288.8
10°	248.5	248.5	248.5	250.6	252.7	254.8	261.2	265.5	267.6	276.1	282.4
12.5°	244.2	244.2	244.2	244.2	246.3	252.7	257.0	263.3	265.5	273.9	282.4
15°	244.2	244.2	244.2	244.2	248.5	252.7	259.1	265.5	267.6	276.1	282.4
17.5°	244.2	244.2	244.2	248.5	250.6	257.0	263.3	271.8	271.8	280.3	284.6
20°	244.2	246.3	248.5	254.8	257.0	263.3	271.8	278.2	280.3	288.8	288.8
22.5°	248.5	250.6	254.8	263.3	265.5	273.9	282.4	290.9	290.9	297.3	295.2
25°	261.2	261.2	267.6	280.3	280.3	288.8	299.4	305.8	305.8	310.0	303.7
27.5°	284.6	284.6	293.1	299.4	299.4	310.0	318.5	324.9	324.9	327.0	314.3
30°	320.7	320.7	324.9	327.0	324.9	333.4	341.9	346.2	348.3	346.2	331.3
32.5°	392.9	390.7	386.5	369.5	361.0	361.0	367.4	373.8	373.8	371.6	352.5
35°	511.8	505.4	488.4	454.5	414.1	401.4	399.2	405.6	405.6	407.7	382.3
37.5°	666.8	658.3	626.5	571.3	499.1	450.2	441.7	443.8	448.1	450.2	424.7
40°	830.3	824.0	781.5	722.0	620.1	528.8	499.1	496.9	501.2	505.4	475.7
42.5°	974.7	972.6	925.9	881.3	773.0	685.9	575.5	573.4	575.5	577.6	537.3
45°	1100.0	1087.3	1055.4	1019.3	945.0	862.2	685.9	673.2	673.2	664.7	615.9
47.5°	1163.7	1140.4	1127.6	1129.8	1108.5	1044.8	847.3	794.2	796.4	775.1	709.3
50°	1114.9	1104.3	1119.2	1178.6	1240.2	1238.1	1053.3	949.3	945.0	908.9	817.6
52.5°	957.8	966.3	1017.2	1125.5	1299.7	1405.8	1274.2	1138.3	1119.2	1051.2	936.5
55°	779.4	792.1	866.4	993.9	1252.9	1507.8	1484.4	1344.3	1312.4	1182.9	1036.3
57.5°	584.0	605.2	707.2	836.7	1117.0	1467.4	1630.9	1539.6	1495.0	1286.9	1104.3
60°	378.0	395.0	511.8	688.1	902.5	1252.9	1662.8	1652.2	1603.3	1344.3	1151.0
62.5°	250.6	257.0	310.0	524.5	696.6	951.4	1577.9	1718.0	1662.8	1369.7	1180.7
65°	150.8	155.0	178.4	312.2	501.2	645.6	1376.1	1739.3	1711.6	1386.7	1197.7
67.5°	95.6	95.6	104.1	165.6	346.2	384.4	976.9	1673.4	1703.2	1393.1	1178.6
70°	80.7	82.8	89.2	101.9	240.0	214.5	530.9	1437.7	1554.5	1378.2	1148.9
72.5°	63.7	68.0	78.6	93.4	161.4	138.0	225.1	983.2	1185.0	1314.5	1104.3
75°	40.3	44.6	59.5	82.8	108.3	99.8	114.7	401.4	586.1	1004.5	938.6
77.5°	25.5	25.5	34.0	59.5	84.9	68.0	84.9	121.0	163.5	465.1	530.9
80°	14.9	17.0	19.1	36.1	57.3	53.1	57.3	63.7	63.7	118.9	131.7
82.5°	10.6	8.5	12.7	19.1	34.0	36.1	31.9	38.2	40.3	40.3	19.1
85°	4.2	4.2	6.4	10.6	19.1	17.0	17.0	21.2	23.4	25.5	8.5
87.5°	2.1	2.1	4.2	6.4	6.4	8.5	8.5	8.5	10.6	14.9	4.2
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°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	295.2	297.3	295.2	297.3	297.3	297.3	297.3	297.3	299.4	297.3	299.4
5°	293.1	295.2	295.2	295.2	295.2	293.1	293.1	293.1	290.9	290.9	290.9
7.5°	290.9	293.1	290.9	290.9	288.8	286.7	282.4	280.3	278.2	278.2	278.2
10°	286.7	288.8	288.8	284.6	282.4	276.1	265.5	254.8	244.2	242.1	240.0
12.5°	284.6	286.7	284.6	280.3	271.8	257.0	233.6	203.9	182.6	169.9	165.6
15°	284.6	284.6	282.4	273.9	257.0	220.9	169.9	118.9	84.9	68.0	65.8
17.5°	286.7	284.6	278.2	265.5	229.4	163.5	91.3	48.8	38.2	36.1	36.1
20°	288.8	284.6	273.9	252.7	186.9	93.4	40.3	31.9	29.7	27.6	27.6
22.5°	290.9	284.6	269.7	231.5	135.9	44.6	31.9	25.5	23.4	21.2	21.2
25°	297.3	288.8	265.5	206.0	80.7	31.9	25.5	21.2	19.1	17.0	17.0
27.5°	305.8	293.1	265.5	172.0	42.5	27.6	21.2	17.0	14.9	12.7	12.7
30°	316.4	301.6	265.5	131.7	29.7	21.2	17.0	12.7	10.6	10.6	10.6
32.5°	333.4	316.4	263.3	89.2	23.4	17.0	12.7	10.6	8.5	8.5	8.5
35°	361.0	337.7	261.2	48.8	19.1	14.9	10.6	8.5	6.4	6.4	6.4
37.5°	399.2	369.5	254.8	27.6	14.9	10.6	8.5	6.4	6.4	6.4	6.4
40°	446.0	409.9	242.1	21.2	12.7	8.5	6.4	6.4	6.4	4.2	4.2
42.5°	505.4	460.8	220.9	19.1	10.6	8.5	6.4	4.2	4.2	4.2	4.2
45°	575.5	528.8	189.0	17.0	8.5	6.4	6.4	4.2	4.2	4.2	4.2
47.5°	660.4	598.9	144.4	14.9	8.5	6.4	4.2	4.2	4.2	4.2	4.2
50°	756.0	679.6	93.4	12.7	6.4	4.2	4.2	4.2	2.1	2.1	2.1
52.5°	862.2	770.9	57.3	10.6	6.4	4.2	4.2	2.1	2.1	2.1	2.1
55°	947.1	843.1	38.2	8.5	4.2	4.2	2.1	2.1	2.1	2.1	2.1
57.5°	1008.7	891.9	25.5	8.5	4.2	2.1	2.1	2.1	2.1	0.0	0.0
60°	1057.6	923.8	19.1	6.4	4.2	2.1	2.1	0.0	0.0	0.0	0.0
62.5°	1100.0	951.4	14.9	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
65°	1123.4	962.0	12.7	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	1114.9	942.9	10.6	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1083.1	894.0	8.5	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1051.2	821.8	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	898.3	465.1	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	490.6	195.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	114.7	61.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	0.0	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)