

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: P459573

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-9)
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-HSS
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-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

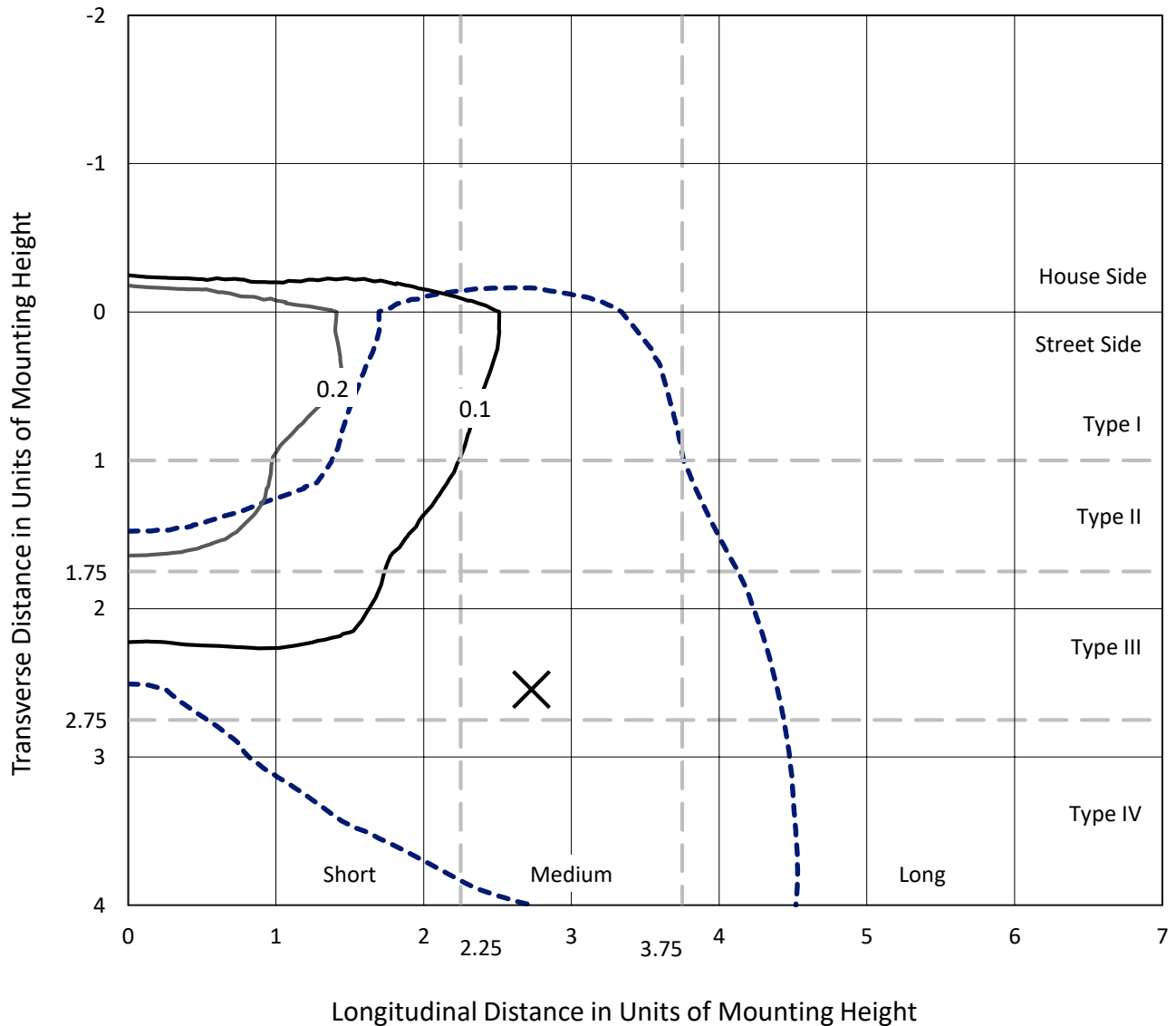


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

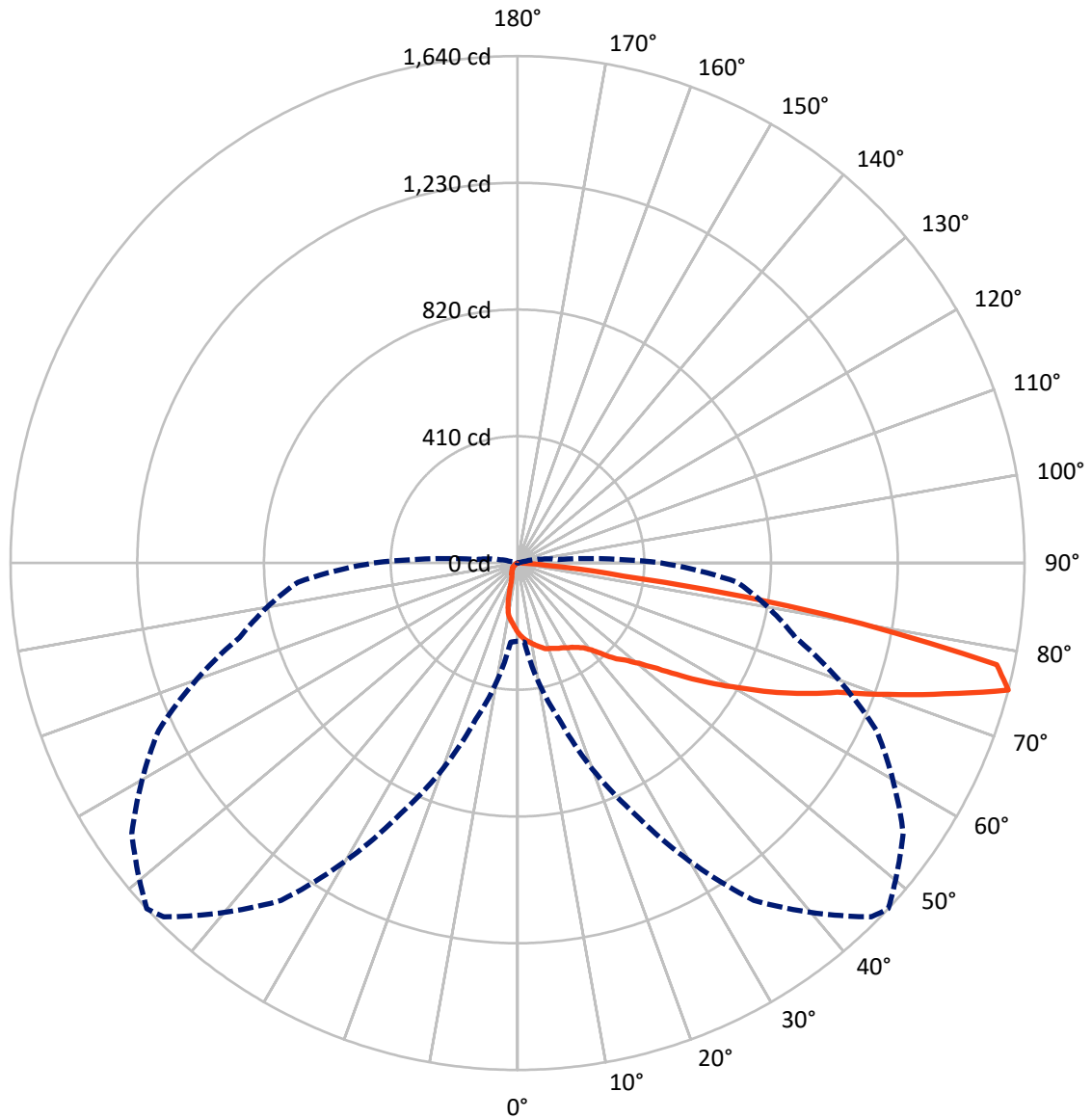


Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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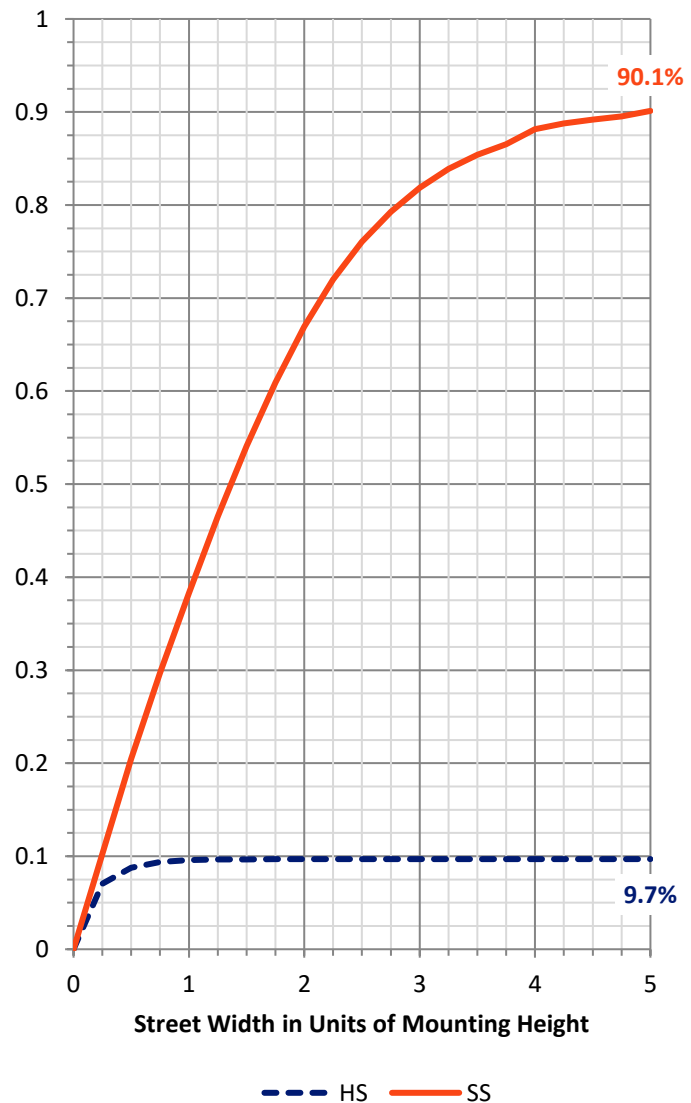
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	192.2	0.0	192.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	1773.8	0.0	1773.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	1966.0	0.0	1966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	1.1
10°-20°	57.4	2.9
20°-30°	91.1	4.6
30°-40°	130.3	6.6
40°-50°	201.4	10.2
50°-60°	352.5	17.9
60°-70°	570.2	29.0
70°-80°	493.9	25.1
80°-90°	48.0	2.4
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°	1966.0	100.0
0°-180°	1966.0	100.0

Coefficient of Utilization



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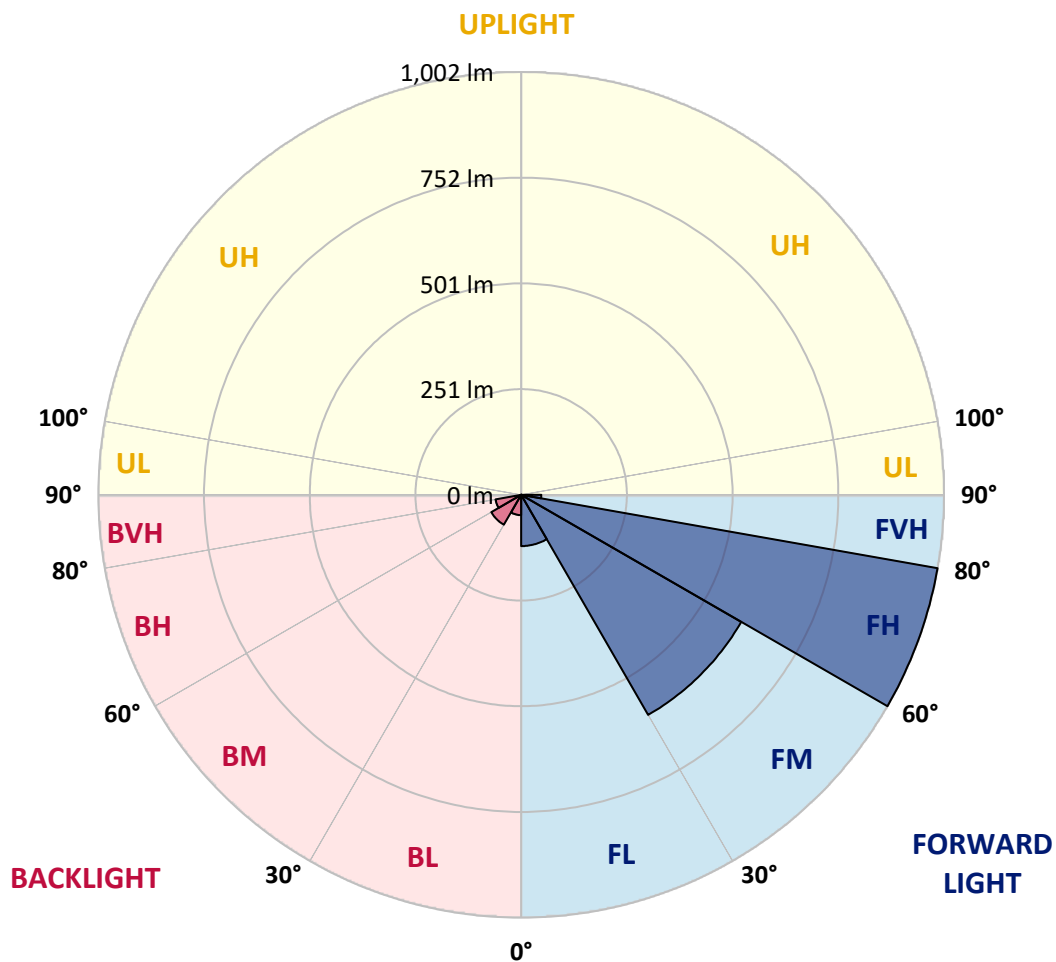
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.5	6.2			
FM	(30°-60°)	602.3	30.6			
FH	(60°-80°)	1002.2	51.0			G1/1800
FVH	(80°-90°)	47.8	2.4			G1/100
BL	(0°-30°)	48.2	2.5	B0/110		
BM	(30°-60°)	81.9	4.2	B0/220		
BH	(60°-80°)	61.8	3.1	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-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1
2.5°	244.2	246.4	244.2	242.1	240.0	235.8	237.9	233.6	231.5	227.3	223.0
5°	265.5	265.5	263.4	259.1	254.9	248.5	248.5	244.2	235.8	229.4	223.0
7.5°	280.4	280.4	278.2	274.0	265.5	259.1	257.0	250.6	242.1	233.6	223.0
10°	293.1	291.0	288.8	282.5	274.0	265.5	265.5	257.0	248.5	240.0	227.3
12.5°	303.7	303.7	299.5	291.0	282.5	276.1	274.0	267.6	259.1	246.4	233.6
15°	312.2	312.2	308.0	297.3	288.8	284.6	282.5	276.1	267.6	254.9	240.0
17.5°	312.2	314.3	312.2	301.6	295.2	288.8	291.0	284.6	276.1	263.4	246.4
20°	314.3	314.3	312.2	301.6	297.3	295.2	295.2	288.8	282.5	271.9	254.9
22.5°	316.5	318.6	316.5	301.6	299.5	299.5	299.5	297.3	288.8	276.1	261.2
25°	318.6	318.6	318.6	303.7	301.6	303.7	305.8	303.7	297.3	284.6	269.7
27.5°	322.8	320.7	320.7	305.8	305.8	308.0	310.1	310.1	305.8	293.1	276.1
30°	327.1	327.1	327.1	310.1	310.1	314.3	318.6	320.7	316.5	301.6	284.6
32.5°	339.8	337.7	335.6	316.5	316.5	322.8	325.0	329.2	327.1	312.2	295.2
35°	358.9	354.7	348.3	329.2	327.1	333.5	335.6	339.8	341.9	325.0	308.0
37.5°	380.2	375.9	367.4	346.2	341.9	346.2	348.3	352.6	356.8	344.1	325.0
40°	403.5	401.4	403.5	375.9	361.1	367.4	369.6	371.7	378.1	365.3	344.1
42.5°	452.4	454.5	458.8	405.7	382.3	399.3	401.4	395.0	399.3	390.8	369.6
45°	518.2	514.0	520.4	448.1	412.0	433.3	439.6	424.8	429.0	418.4	397.2
47.5°	609.6	603.2	584.1	509.7	454.5	465.1	469.4	465.1	465.1	458.8	435.4
50°	683.9	679.6	649.9	586.2	522.5	509.7	509.7	511.9	516.1	511.9	490.6
52.5°	754.0	749.7	720.0	666.9	613.8	569.2	567.1	573.5	579.8	592.6	571.3
55°	788.0	788.0	773.1	749.7	700.9	649.9	643.5	647.8	666.9	683.9	658.4
57.5°	851.7	849.6	847.4	845.3	811.3	745.5	730.6	730.6	768.8	777.3	734.9
60°	932.4	936.6	957.9	962.1	923.9	843.2	817.7	830.4	879.3	864.4	826.2
62.5°	983.4	994.0	1057.7	1115.0	1072.6	938.8	917.5	934.5	968.5	949.4	947.3
65°	936.6	930.3	1085.3	1204.2	1251.0	1042.8	1017.3	1025.8	1055.6	1042.8	1074.7
67.5°	843.2	845.3	989.7	1229.7	1376.3	1144.8	1115.0	1119.3	1151.1	1138.4	1210.6
70°	743.4	754.0	877.2	1178.8	1412.4	1297.7	1272.2	1246.7	1251.0	1195.8	1306.2
72.5°	611.7	620.2	790.1	1076.8	1412.4	1457.0	1446.4	1399.6	1316.8	1174.5	1212.7
75°	252.7	257.0	524.6	894.2	1331.7	1618.4	1639.6	1522.8	1280.7	930.3	713.6
77.5°	116.8	118.9	169.9	522.5	1015.2	1548.3	1584.4	1352.9	894.2	435.4	208.1
80°	53.1	55.2	74.3	159.3	494.9	987.6	1017.3	730.6	365.3	101.9	31.9
82.5°	10.6	12.7	23.4	63.7	180.5	325.0	346.2	246.4	114.7	36.1	12.7
85°	4.2	4.2	10.6	36.1	82.8	80.7	93.5	87.1	72.2	31.9	6.4
87.5°	2.1	2.1	4.2	14.9	40.4	21.2	21.2	36.1	48.8	29.7	2.1
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°	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1	225.1
2.5°	223.0	220.9	216.6	214.5	212.4	210.3	210.3	208.1	208.1	208.1	208.1
5°	218.8	216.6	208.1	203.9	199.6	195.4	195.4	193.3	193.3	193.3	193.3
7.5°	218.8	214.5	203.9	195.4	189.0	182.7	180.5	176.3	174.2	172.0	174.2
10°	220.9	214.5	201.8	191.2	182.7	169.9	152.9	138.1	129.6	127.4	127.4
12.5°	225.1	216.6	201.8	186.9	169.9	142.3	112.6	91.3	78.6	74.3	76.5
15°	231.5	220.9	203.9	184.8	148.7	104.1	70.1	55.2	55.2	57.3	59.5
17.5°	235.8	225.1	203.9	174.2	118.9	65.8	51.0	48.8	48.8	55.2	55.2
20°	244.2	231.5	208.1	157.2	82.8	51.0	46.7	46.7	46.7	53.1	53.1
22.5°	250.6	240.0	212.4	133.8	55.2	46.7	44.6	44.6	44.6	51.0	51.0
25°	261.2	250.6	212.4	104.1	44.6	44.6	44.6	44.6	44.6	48.8	48.8
27.5°	269.7	261.2	206.0	74.3	40.4	40.4	42.5	42.5	42.5	44.6	46.7
30°	278.2	271.9	195.4	51.0	38.2	38.2	38.2	40.4	38.2	42.5	42.5
32.5°	288.8	284.6	178.4	38.2	34.0	34.0	34.0	36.1	36.1	38.2	40.4
35°	303.7	301.6	157.2	34.0	31.9	31.9	31.9	31.9	34.0	34.0	36.1
37.5°	322.8	320.7	131.7	31.9	29.7	27.6	27.6	27.6	27.6	29.7	31.9
40°	346.2	346.2	104.1	29.7	27.6	25.5	25.5	23.4	23.4	23.4	25.5
42.5°	373.8	373.8	76.5	27.6	25.5	23.4	21.2	19.1	17.0	17.0	19.1
45°	401.4	399.3	53.1	27.6	25.5	21.2	17.0	14.9	10.6	10.6	12.7
47.5°	439.6	422.7	36.1	27.6	25.5	19.1	14.9	8.5	6.4	6.4	8.5
50°	494.9	454.5	29.7	25.5	23.4	14.9	10.6	6.4	4.2	4.2	6.4
52.5°	577.7	494.9	27.6	23.4	21.2	12.7	6.4	4.2	4.2	4.2	4.2
55°	658.4	535.2	27.6	21.2	17.0	8.5	4.2	2.1	2.1	2.1	2.1
57.5°	737.0	577.7	25.5	19.1	12.7	4.2	2.1	2.1	2.1	2.1	2.1
60°	830.4	611.7	21.2	14.9	8.5	4.2	2.1	2.1	2.1	2.1	2.1
62.5°	968.5	641.4	14.9	10.6	6.4	2.1	2.1	2.1	2.1	2.1	2.1
65°	1134.2	664.8	10.6	8.5	4.2	2.1	2.1	2.1	0.0	0.0	0.0
67.5°	1238.2	664.8	6.4	6.4	2.1	2.1	2.1	0.0	0.0	0.0	0.0
70°	1221.2	613.8	6.4	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	985.5	426.9	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	465.1	131.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	127.4	36.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.2	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	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)