

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: P459567

Luminaire Tested: **ARCH-M-PA2-60-AMB-U-T2R-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-5)
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-T2R-HSS
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2155 lumens
Efficiency: N/A
Efficacy: 35.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-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

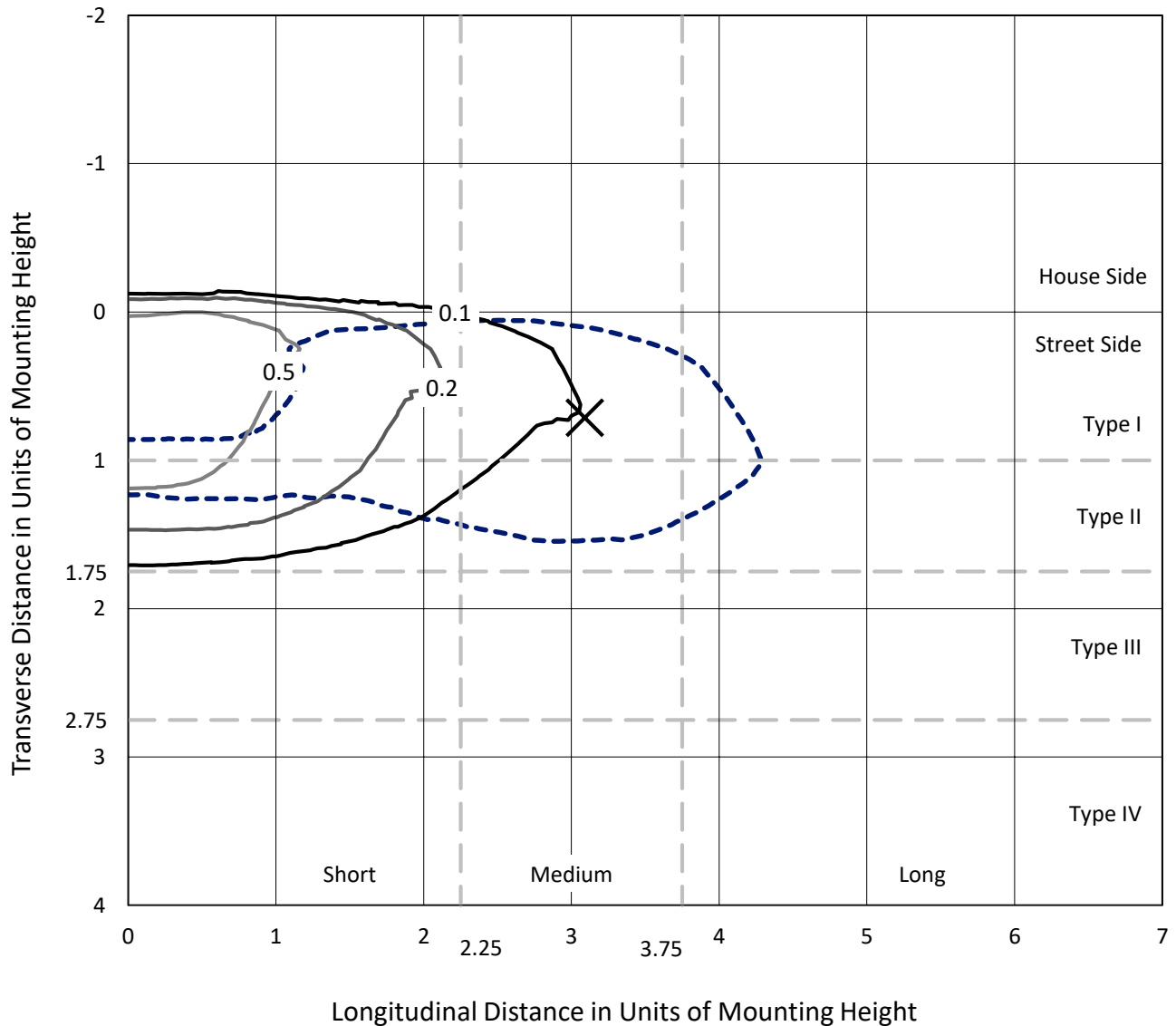


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

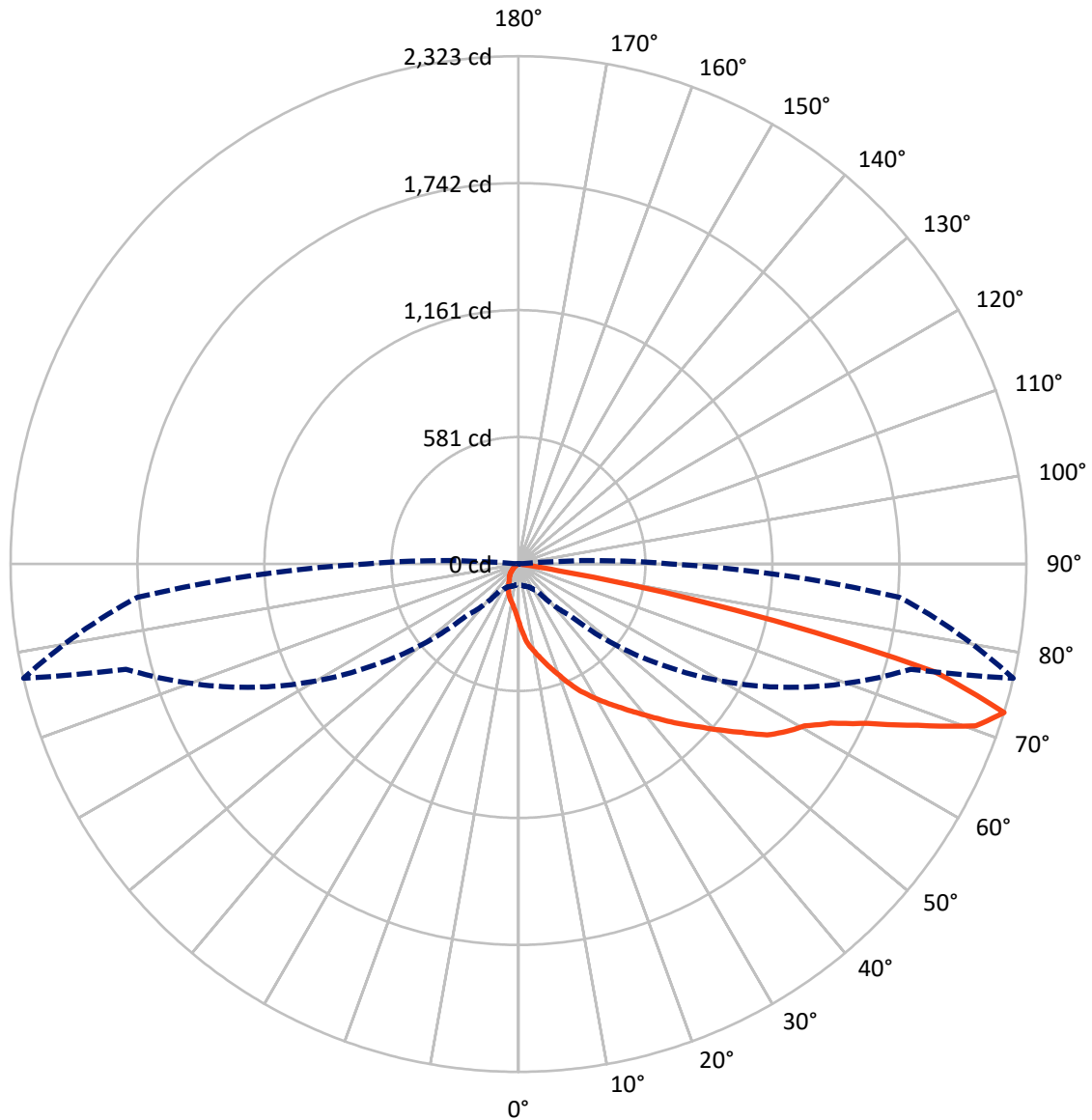


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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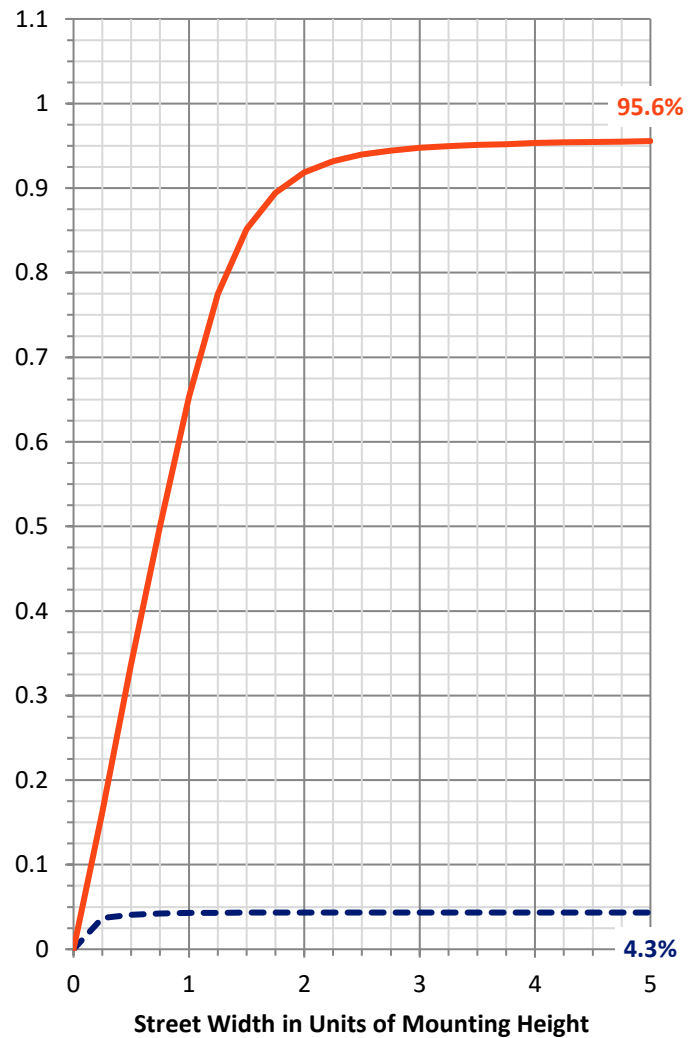
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	93.7	0.0	93.7
	% Fixture	4.3	0.0	4.3
Street Side	Lumens	2061.3	0.0	2061.3
	% Fixture	95.7	0.0	95.7
Total	Lumens	2155.0	0.0	2155.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.2
10°-20°	84.2	3.9
20°-30°	150.2	7.0
30°-40°	255.4	11.9
40°-50°	417.0	19.3
50°-60°	498.3	23.1
60°-70°	444.0	20.6
70°-80°	269.7	12.5
80°-90°	9.9	0.5
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°	2155.0	100.0
0°-180°	2155.0	100.0



--- HS — SS

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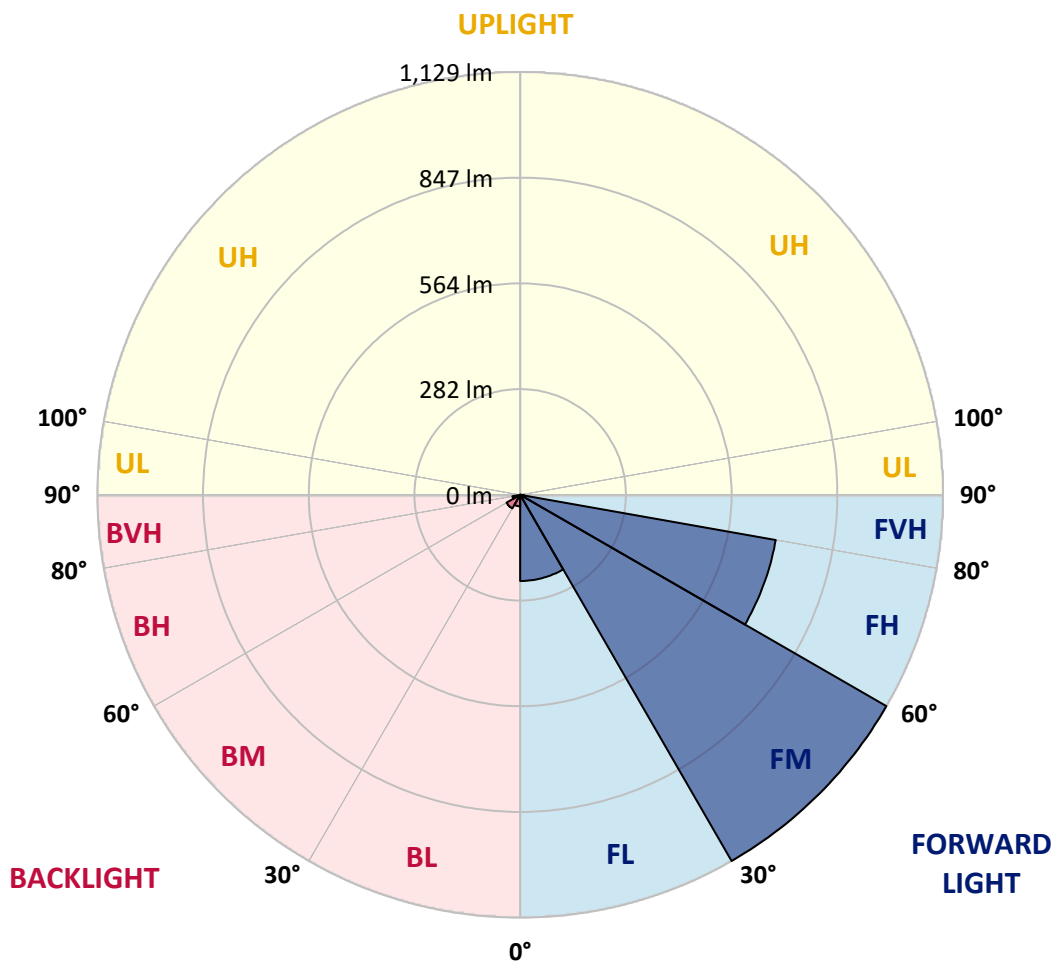
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.9	10.7			
FM (30°-60°)	1128.8	52.4			
FH (60°-80°)	692.8	32.1			G1/1800
FVH (80°-90°)	9.8	0.5			G0/10
BL (0°-30°)	30.8	1.4	B0/110		
BM (30°-60°)	41.9	1.9	B0/220		
BH (60°-80°)	20.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4
2.5°	388.5	384.3	384.3	377.9	373.6	365.1	354.5	337.5	307.8	303.6	282.4
5°	445.8	443.7	441.6	431.0	424.6	416.1	401.2	382.1	356.7	348.2	301.5
7.5°	488.3	486.2	484.0	481.9	475.5	462.8	443.7	418.2	388.5	382.1	326.9
10°	509.5	509.5	509.5	511.6	507.4	501.0	486.2	454.3	416.1	407.6	350.3
12.5°	515.9	518.0	522.2	535.0	537.1	539.2	524.4	494.6	447.9	439.4	377.9
15°	498.9	503.1	509.5	524.4	547.7	571.1	571.1	539.2	484.0	473.4	407.6
17.5°	496.8	498.9	507.4	522.2	543.5	577.4	598.7	583.8	522.2	509.5	435.2
20°	498.9	498.9	507.4	524.4	549.8	581.7	611.4	617.8	566.8	547.7	467.0
22.5°	507.4	509.5	515.9	532.9	566.8	594.4	617.8	641.1	609.3	592.3	496.8
25°	530.7	530.7	535.0	545.6	579.6	617.8	636.9	658.1	647.5	636.9	528.6
27.5°	562.6	558.3	562.6	573.2	596.5	643.3	662.4	670.8	683.6	677.2	566.8
30°	628.4	626.3	613.5	598.7	617.8	664.5	696.3	685.7	715.4	719.7	596.5
32.5°	717.6	715.4	698.4	660.2	645.4	685.7	732.4	715.4	747.3	762.1	630.5
35°	849.2	847.1	817.3	751.5	700.6	713.3	768.5	751.5	781.2	806.7	670.8
37.5°	989.3	987.2	944.7	870.4	783.4	753.6	808.8	796.1	815.2	857.7	711.2
40°	1095.4	1093.3	1061.5	995.7	889.5	819.5	849.2	849.2	855.5	912.9	755.8
42.5°	1180.4	1178.2	1152.8	1091.2	995.7	898.0	898.0	904.4	902.2	976.6	800.3
45°	1237.7	1229.2	1220.7	1167.6	1080.6	987.2	957.4	961.7	955.3	1044.5	853.4
47.5°	1254.7	1254.7	1254.7	1231.3	1142.1	1067.8	1027.5	1021.1	1014.8	1112.4	912.9
50°	1212.2	1216.4	1248.3	1265.3	1186.7	1133.7	1097.6	1080.6	1080.6	1193.1	987.2
52.5°	989.3	995.7	1120.9	1220.7	1218.6	1167.6	1165.5	1142.1	1152.8	1280.1	1070.0
55°	713.3	734.5	868.3	1080.6	1210.1	1188.8	1214.3	1205.8	1231.3	1379.9	1133.7
57.5°	583.8	583.8	653.9	870.4	1103.9	1195.2	1261.0	1254.7	1282.3	1445.7	1182.5
60°	458.6	469.2	509.5	656.0	927.7	1142.1	1250.4	1267.4	1305.6	1503.0	1250.4
62.5°	348.2	358.8	397.0	496.8	723.9	1025.4	1218.6	1265.3	1345.9	1602.8	1356.6
65°	256.9	256.9	282.4	352.4	537.1	870.4	1191.0	1295.0	1433.0	1755.7	1481.8
67.5°	180.4	180.4	201.7	244.1	367.3	700.6	1125.2	1356.6	1558.2	1968.0	1645.3
70°	125.3	127.4	142.2	165.6	229.3	490.4	995.7	1394.8	1734.4	2218.5	1791.8
72.5°	95.5	95.5	104.0	114.6	148.6	331.2	806.7	1333.2	1857.6	2322.5	1749.3
75°	44.6	44.6	72.2	84.9	101.9	218.7	581.7	1065.7	1711.1	1965.8	1265.3
77.5°	36.1	36.1	38.2	63.7	67.9	123.1	271.7	515.9	980.8	1010.5	486.2
80°	23.4	23.4	29.7	34.0	34.0	63.7	80.7	106.1	216.5	184.7	65.8
82.5°	17.0	14.9	17.0	25.5	31.8	34.0	14.9	17.0	19.1	17.0	10.6
85°	6.4	6.4	12.7	21.2	19.1	8.5	6.4	6.4	8.5	8.5	4.2
87.5°	2.1	2.1	8.5	8.5	12.7	4.2	4.2	2.1	4.2	4.2	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°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4
2.5°	267.5	252.6	227.2	210.2	191.1	178.3	167.7	159.2	157.1	150.7	152.9
5°	271.7	244.1	201.7	169.8	142.2	125.3	110.4	101.9	97.7	93.4	93.4
7.5°	280.2	239.9	180.4	138.0	108.3	89.2	72.2	65.8	59.4	57.3	57.3
10°	290.8	239.9	163.5	114.6	80.7	61.6	51.0	46.7	42.5	42.5	42.5
12.5°	307.8	242.0	150.7	93.4	59.4	46.7	42.5	40.3	38.2	38.2	38.2
15°	326.9	246.3	135.9	72.2	46.7	40.3	36.1	34.0	31.8	31.8	31.8
17.5°	350.3	252.6	121.0	57.3	40.3	36.1	31.8	29.7	27.6	27.6	27.6
20°	371.5	256.9	104.0	46.7	36.1	31.8	27.6	25.5	23.4	21.2	21.2
22.5°	397.0	263.2	82.8	40.3	34.0	27.6	23.4	21.2	19.1	17.0	17.0
25°	422.5	265.4	65.8	36.1	29.7	23.4	19.1	17.0	14.9	14.9	14.9
27.5°	441.6	265.4	53.1	31.8	25.5	19.1	17.0	14.9	12.7	12.7	12.7
30°	460.7	259.0	40.3	29.7	21.2	17.0	12.7	12.7	10.6	10.6	10.6
32.5°	479.8	248.4	36.1	25.5	19.1	14.9	10.6	10.6	8.5	8.5	8.5
35°	498.9	233.5	31.8	23.4	14.9	12.7	10.6	8.5	8.5	8.5	8.5
37.5°	518.0	216.5	27.6	19.1	12.7	10.6	8.5	8.5	8.5	6.4	6.4
40°	539.2	195.3	25.5	17.0	12.7	8.5	8.5	6.4	6.4	6.4	6.4
42.5°	566.8	172.0	23.4	14.9	10.6	8.5	6.4	6.4	6.4	6.4	6.4
45°	590.2	144.4	19.1	12.7	10.6	6.4	6.4	4.2	4.2	4.2	4.2
47.5°	622.0	114.6	17.0	10.6	8.5	6.4	4.2	4.2	4.2	4.2	4.2
50°	658.1	93.4	17.0	10.6	8.5	4.2	4.2	4.2	2.1	2.1	2.1
52.5°	706.9	78.5	14.9	8.5	6.4	4.2	2.1	2.1	2.1	2.1	2.1
55°	734.5	63.7	12.7	8.5	4.2	4.2	2.1	2.1	2.1	2.1	2.1
57.5°	757.9	53.1	10.6	6.4	4.2	2.1	2.1	0.0	0.0	0.0	0.0
60°	796.1	42.5	10.6	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
62.5°	840.7	36.1	8.5	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0
65°	885.3	31.8	6.4	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	919.2	29.7	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	893.8	25.5	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	694.2	21.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	326.9	14.9	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	70.1	8.5	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	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)