

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: P459568

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-4)
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
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II ROADWAY 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 II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

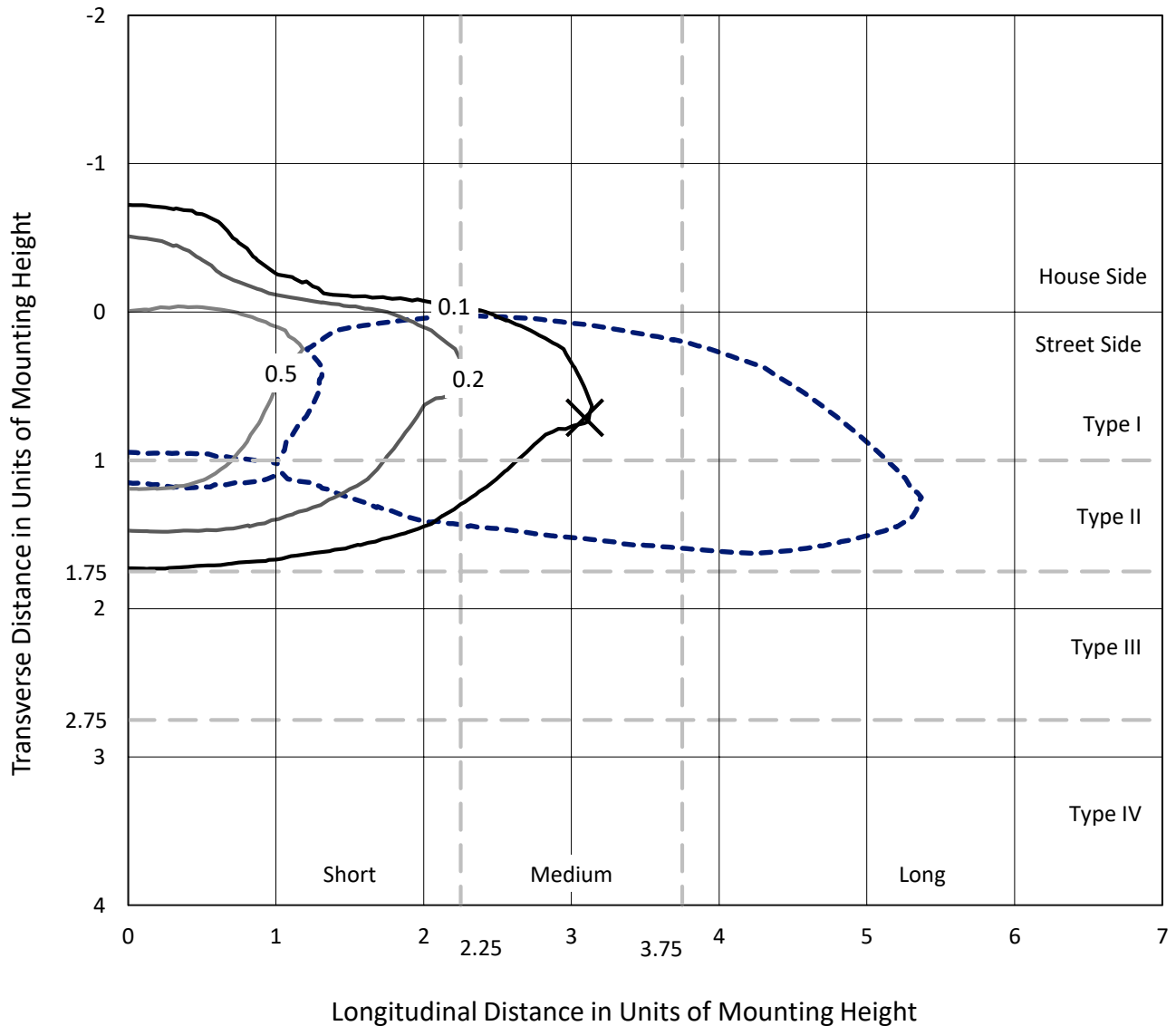
Input Watts (W): 60.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

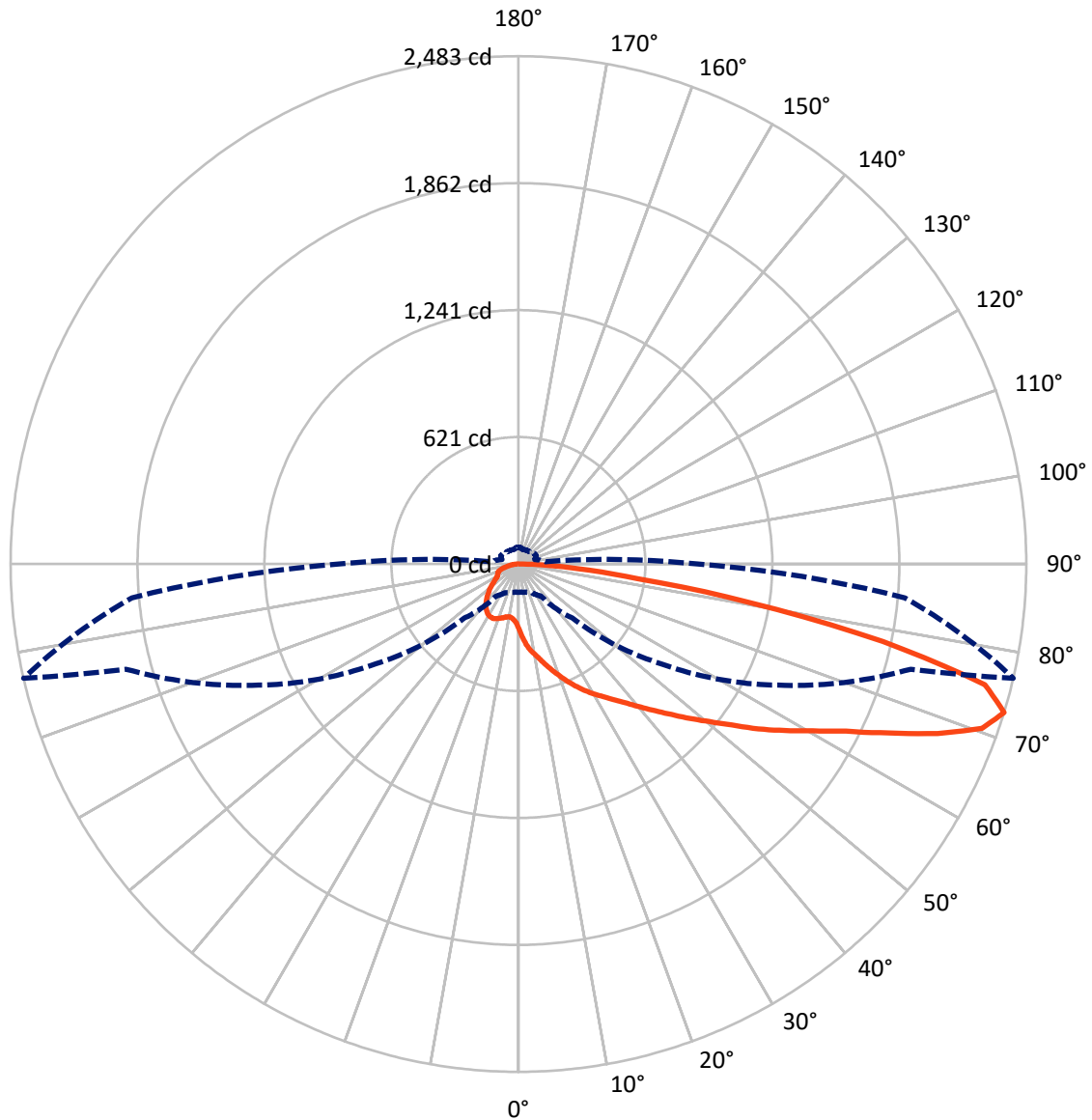
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Medium - Non-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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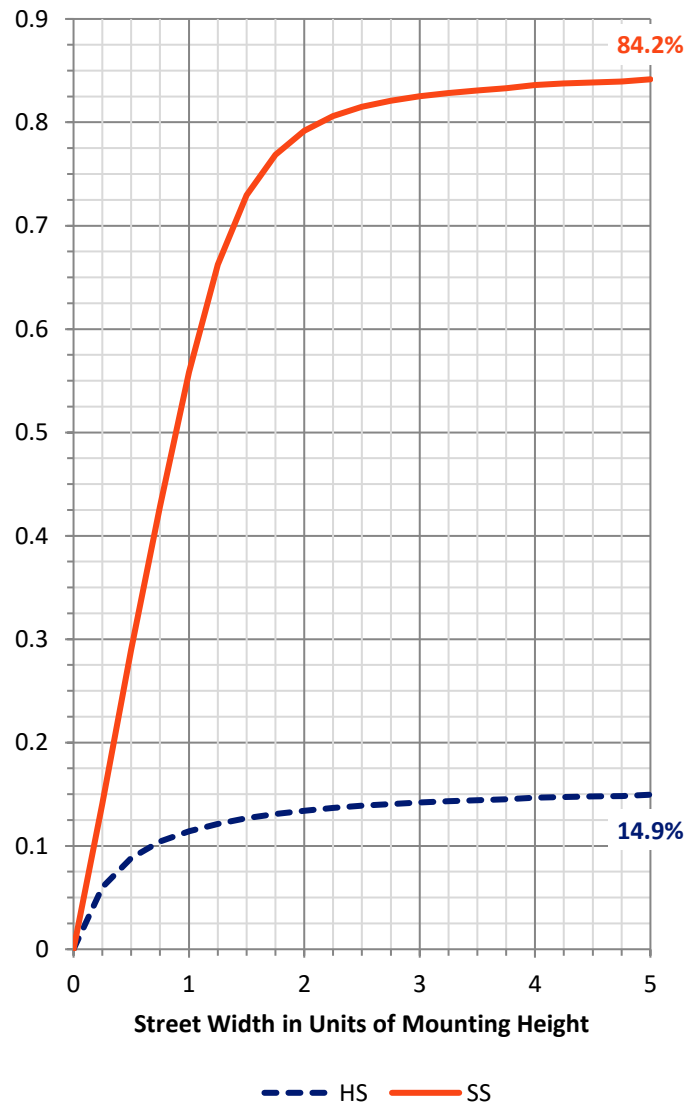
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.5	0.0	418.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	2301.5	0.0	2301.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	2720.0	0.0	2720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.2
10°-20°	115.9	4.3
20°-30°	199.6	7.3
30°-40°	310.5	11.4
40°-50°	474.4	17.4
50°-60°	563.0	20.7
60°-70°	539.5	19.8
70°-80°	392.4	14.4
80°-90°	90.5	3.3
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

Coefficient of Utilization



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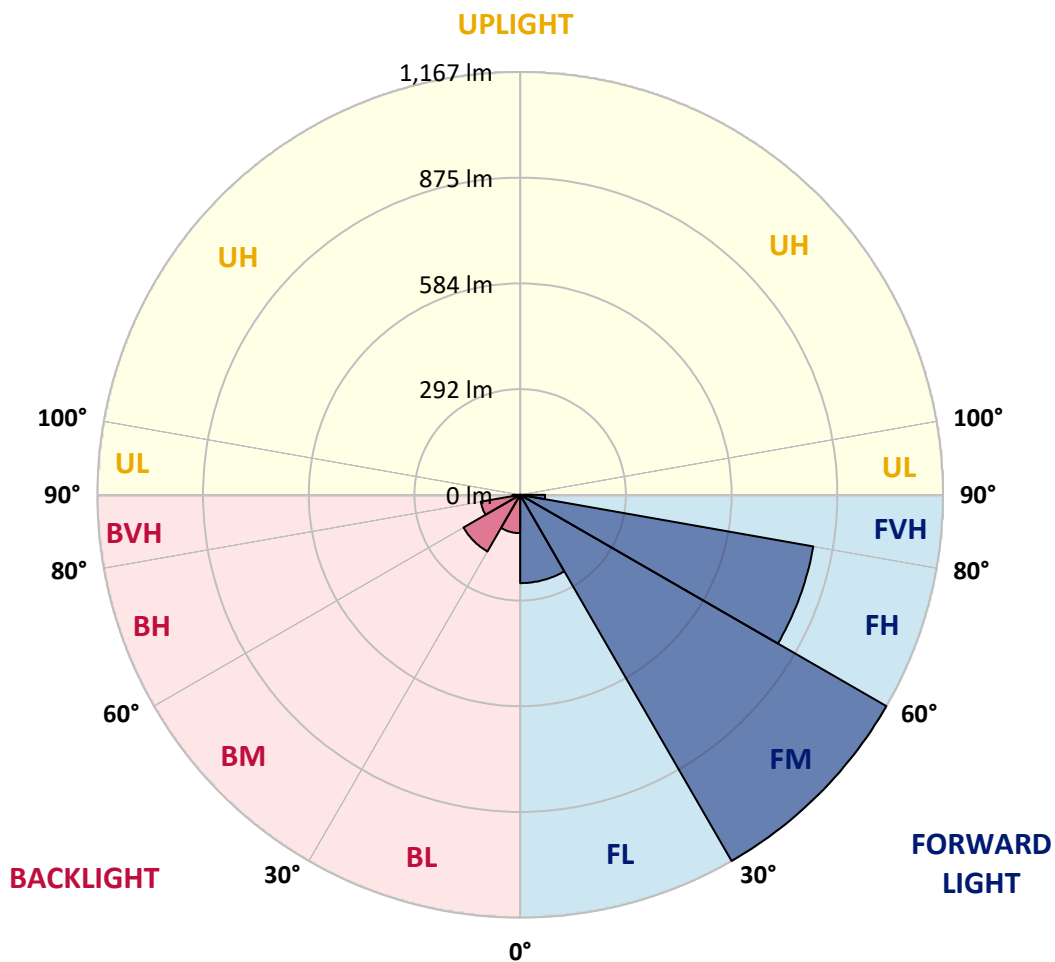
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.8	9.0			
FM (30°-60°)	1167.2	42.9			
FH (60°-80°)	821.6	30.2			G1/1800
FVH (80°-90°)	68.9	2.5			G1/100
BL (0°-30°)	105.8	3.9	B0/110		
BM (30°-60°)	180.8	6.6	B0/220		
BH (60°-80°)	110.4	4.1	B1/500		G1/500
BVH (80°-90°)	21.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	429.0	429.0	426.9	420.5	416.3	409.9	399.3	386.5	361.0	354.7	331.3
5°	482.1	480.0	480.0	471.5	465.1	454.5	441.7	426.9	401.4	395.0	352.5
7.5°	522.5	522.5	522.5	516.1	511.8	501.2	482.1	458.7	431.1	424.8	375.9
10°	543.7	545.8	545.8	545.8	545.8	537.3	524.6	494.8	456.6	450.2	401.4
12.5°	547.9	550.1	556.4	567.0	573.4	573.4	564.9	537.3	488.5	480.0	426.9
15°	526.7	528.8	537.3	556.4	579.8	601.0	603.2	579.8	524.6	514.0	454.5
17.5°	524.6	528.8	535.2	552.2	571.3	605.3	630.8	618.0	564.9	550.1	482.1
20°	526.7	528.8	535.2	554.3	584.0	607.4	639.3	647.8	605.3	586.2	507.6
22.5°	537.3	539.4	543.7	560.7	594.7	622.3	645.6	669.0	641.4	626.5	539.4
25°	562.8	564.9	567.0	575.5	607.4	645.6	662.6	683.9	675.4	664.7	569.2
27.5°	590.4	590.4	590.4	598.9	624.4	669.0	690.2	696.6	707.2	703.0	605.3
30°	658.4	660.5	647.8	628.6	645.6	690.2	720.0	709.3	737.0	739.1	635.0
32.5°	758.2	753.9	726.3	692.4	675.4	711.5	753.9	734.8	764.6	775.2	669.0
35°	889.9	881.4	847.4	783.7	734.8	737.0	790.0	770.9	794.3	817.7	705.1
37.5°	1019.4	1013.0	968.4	898.4	821.9	781.6	830.4	815.5	828.3	864.4	747.6
40°	1123.5	1117.1	1091.6	1017.3	919.6	849.5	866.5	864.4	866.5	919.6	790.0
42.5°	1210.6	1204.2	1176.6	1110.7	1023.7	930.2	919.6	919.6	915.4	981.2	838.9
45°	1263.7	1257.3	1244.5	1193.6	1108.6	1017.3	983.3	979.1	968.4	1049.1	894.1
47.5°	1274.3	1274.3	1282.8	1257.3	1170.2	1098.0	1053.4	1036.4	1030.0	1127.7	962.1
50°	1221.2	1231.8	1274.3	1293.4	1219.1	1161.7	1123.5	1100.1	1095.9	1210.6	1038.5
52.5°	979.1	1013.0	1149.0	1248.8	1250.9	1197.8	1189.3	1161.7	1174.5	1306.1	1136.2
55°	734.8	756.1	898.4	1106.5	1236.0	1221.2	1242.4	1236.0	1270.0	1422.9	1233.9
57.5°	598.9	618.0	677.5	900.5	1132.0	1231.8	1293.4	1297.6	1348.6	1535.5	1331.6
60°	490.6	503.3	539.4	690.2	957.8	1193.6	1329.5	1355.0	1429.3	1654.4	1437.8
62.5°	378.0	388.7	424.8	522.5	764.6	1104.4	1357.1	1414.4	1516.4	1798.8	1563.1
65°	278.2	286.7	318.6	384.4	577.7	945.1	1342.2	1482.4	1626.8	1990.0	1718.1
67.5°	210.3	214.5	233.6	280.3	403.5	773.1	1253.0	1550.4	1760.6	2210.9	1860.4
70°	163.5	167.8	176.3	203.9	276.1	560.7	1085.3	1518.5	1885.9	2404.1	1960.3
72.5°	138.0	138.0	142.3	155.0	191.1	373.8	849.5	1401.7	1985.7	2482.7	1896.5
75°	114.7	116.8	116.8	123.2	140.2	252.7	611.6	1202.1	1979.4	2355.3	1637.4
77.5°	97.7	97.7	97.7	101.9	110.4	180.5	401.4	919.6	1707.5	1822.2	1115.0
80°	82.8	80.7	80.7	82.8	91.3	133.8	254.9	601.0	1142.6	1144.7	607.4
82.5°	57.3	63.7	65.8	65.8	76.5	97.7	161.4	329.2	605.3	588.3	291.0
85°	36.1	38.2	48.8	51.0	63.7	55.2	97.7	167.8	284.6	286.7	99.8
87.5°	12.7	10.6	27.6	29.7	42.5	23.4	48.8	57.3	118.9	112.6	27.6
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°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	318.6	303.7	284.6	269.7	261.2	250.6	244.2	235.7	233.6	233.6	235.7
5°	324.9	299.5	267.6	244.2	233.6	227.2	227.2	227.2	227.2	227.2	227.2
7.5°	333.4	299.5	257.0	235.7	231.5	231.5	233.6	237.9	240.0	242.1	242.1
10°	344.1	301.6	250.6	235.7	235.7	240.0	246.4	252.7	254.9	259.1	257.0
12.5°	361.0	307.9	252.7	242.1	244.2	250.6	257.0	261.2	265.5	267.6	267.6
15°	380.2	316.4	257.0	248.5	250.6	257.0	263.3	269.7	271.8	276.1	274.0
17.5°	401.4	327.1	263.3	252.7	257.0	261.2	263.3	267.6	269.7	269.7	267.6
20°	422.6	337.7	267.6	257.0	257.0	257.0	254.9	250.6	248.5	246.4	246.4
22.5°	446.0	352.5	271.8	257.0	250.6	244.2	235.7	227.2	223.0	223.0	220.9
25°	473.6	367.4	274.0	250.6	240.0	227.2	214.5	203.9	197.5	195.4	193.3
27.5°	499.1	380.2	271.8	244.2	227.2	210.3	191.1	178.4	172.0	172.0	172.0
30°	526.7	390.8	265.5	233.6	210.3	189.0	169.9	159.3	152.9	150.8	150.8
32.5°	547.9	397.1	257.0	220.9	193.3	169.9	155.0	146.5	135.9	131.7	131.7
35°	575.5	401.4	242.1	203.9	176.3	155.0	146.5	133.8	123.2	118.9	118.9
37.5°	603.2	401.4	229.4	189.0	161.4	148.7	142.3	121.1	112.6	108.3	108.3
40°	632.9	397.1	212.4	172.0	146.5	146.5	131.7	112.6	97.7	95.6	95.6
42.5°	664.7	388.7	193.3	155.0	135.9	138.0	125.3	104.1	95.6	93.4	91.3
45°	698.7	375.9	176.3	135.9	123.2	121.1	110.4	104.1	97.7	99.8	99.8
47.5°	739.1	358.9	157.2	121.1	114.7	110.4	104.1	95.6	93.4	95.6	97.7
50°	785.8	333.4	142.3	110.4	108.3	101.9	97.7	93.4	91.3	93.4	91.3
52.5°	845.3	299.5	127.4	101.9	101.9	91.3	89.2	89.2	89.2	89.2	89.2
55°	906.9	263.3	114.7	97.7	97.7	87.1	87.1	87.1	87.1	87.1	87.1
57.5°	964.2	229.4	106.2	95.6	93.4	85.0	85.0	85.0	85.0	87.1	87.1
60°	1019.4	201.8	99.8	93.4	91.3	82.8	82.8	82.8	82.8	85.0	85.0
62.5°	1072.5	184.8	97.7	93.4	89.2	82.8	82.8	82.8	82.8	87.1	85.0
65°	1121.4	172.0	97.7	95.6	87.1	82.8	82.8	82.8	82.8	87.1	85.0
67.5°	1125.6	159.3	95.6	97.7	87.1	82.8	82.8	82.8	80.7	87.1	85.0
70°	1053.4	148.7	91.3	99.8	91.3	82.8	80.7	80.7	78.6	87.1	82.8
72.5°	875.0	133.8	82.8	95.6	91.3	82.8	78.6	76.5	74.3	82.8	78.6
75°	611.6	112.6	70.1	87.1	89.2	82.8	74.3	72.2	70.1	74.3	70.1
77.5°	369.5	91.3	57.3	74.3	80.7	82.8	70.1	68.0	63.7	65.8	63.7
80°	220.9	68.0	44.6	61.6	70.1	82.8	65.8	61.6	55.2	55.2	53.1
82.5°	135.9	46.7	31.9	46.7	57.3	76.5	63.7	53.1	46.7	46.7	42.5
85°	63.7	29.7	21.2	34.0	42.5	63.7	57.3	44.6	38.2	51.0	40.4
87.5°	17.0	14.9	12.7	19.1	27.6	31.9	51.0	29.7	31.9	29.7	25.5
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)