

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: P459572

Luminaire Tested: **ARCH-M-PA2-60-AMB-U-T3**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-6)
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-T3
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765 lumens
Efficiency: N/A
Efficacy: 45.6 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 (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

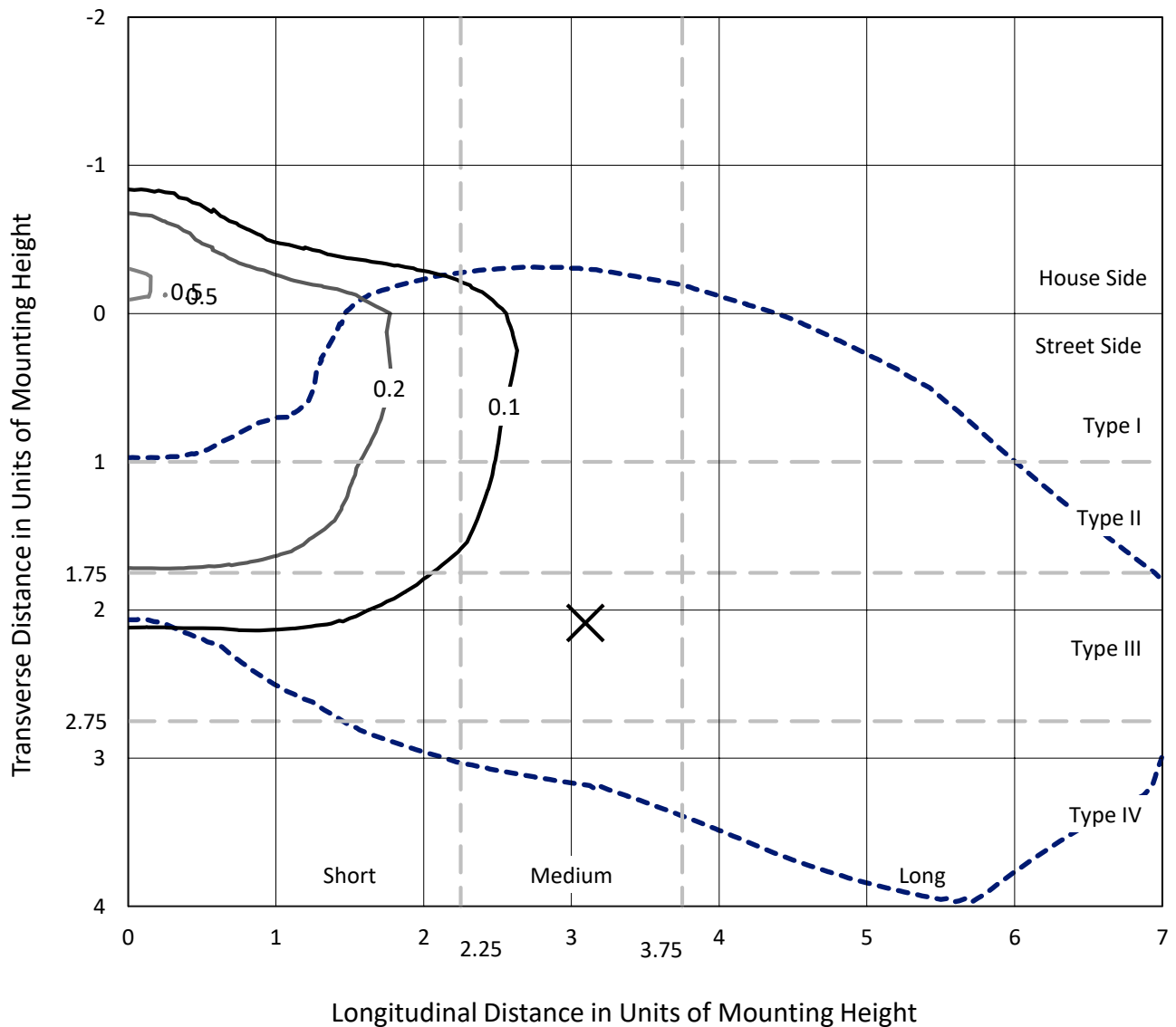


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

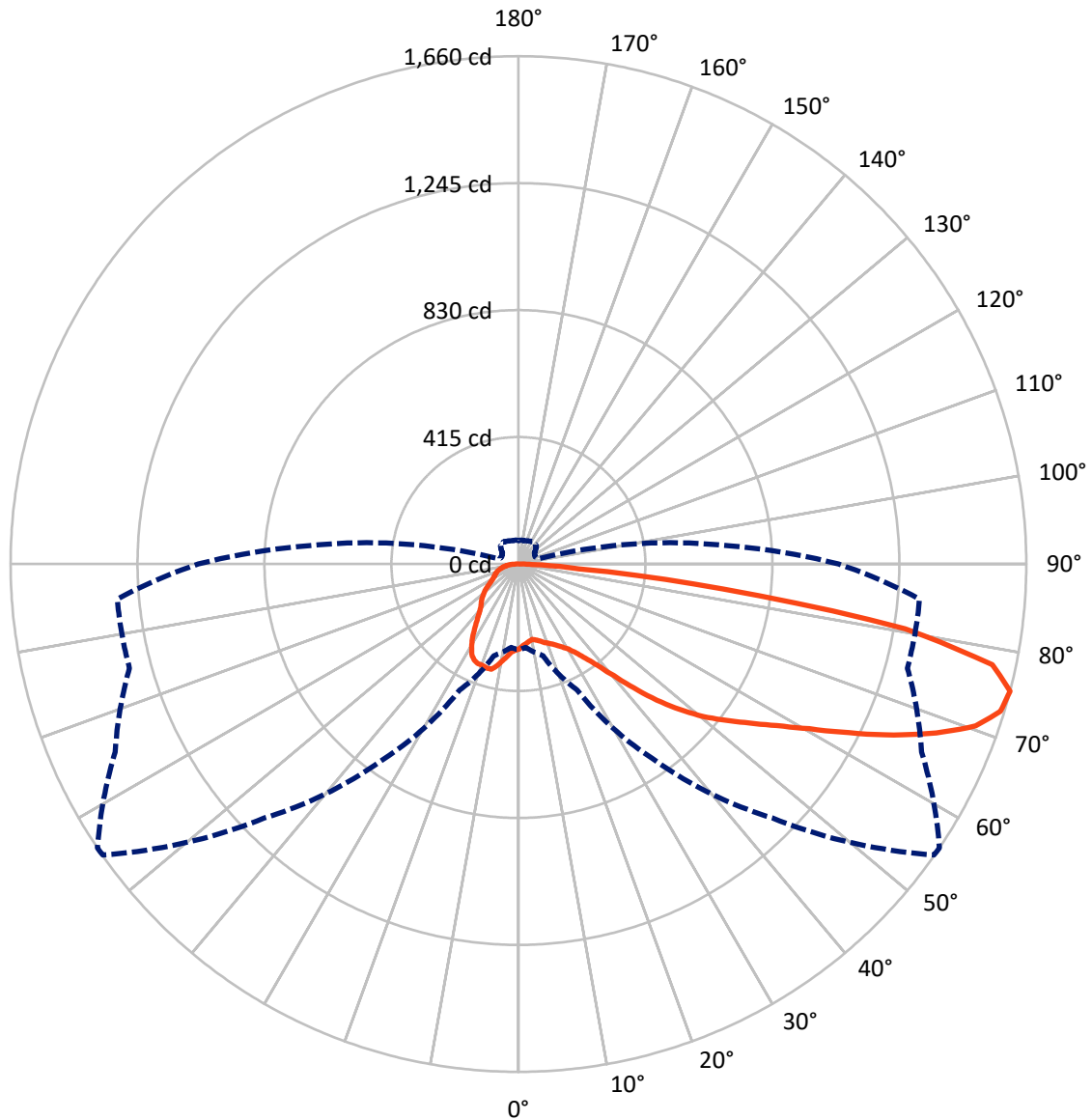


Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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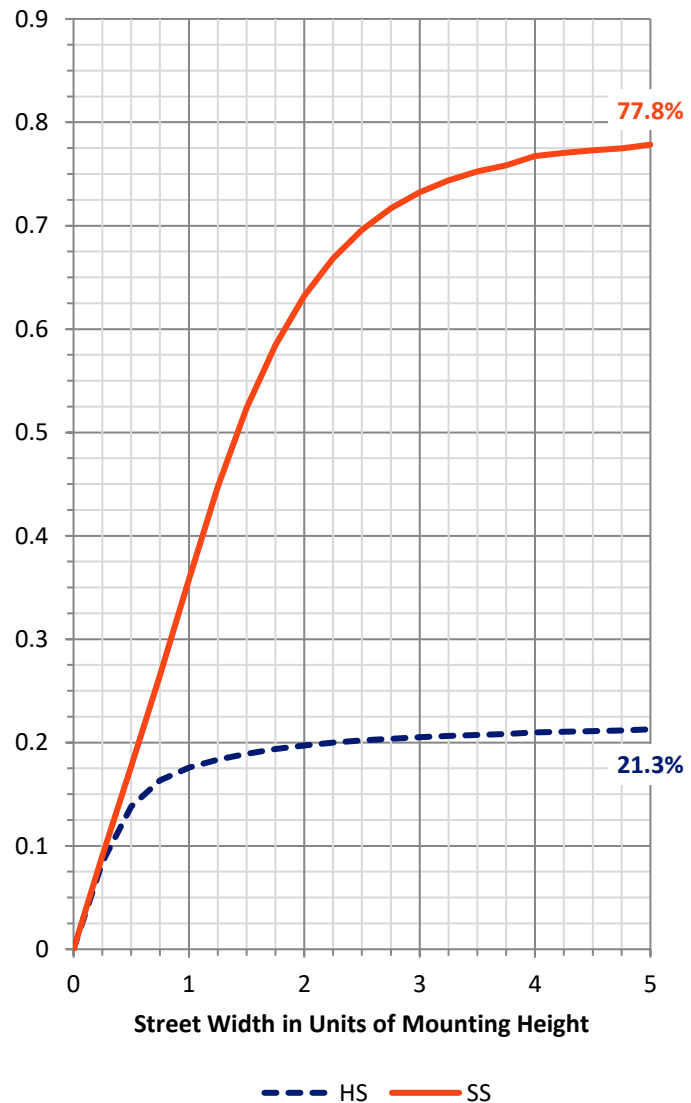
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.9	0.0	603.9
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	2161.1	0.0	2161.1
	% Fixture	78.2	0.0	78.2
Total	Lumens	2765.0	0.0	2765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.0
10°-20°	85.7	3.1
20°-30°	147.8	5.3
30°-40°	214.4	7.8
40°-50°	352.8	12.8
50°-60°	546.9	19.8
60°-70°	687.7	24.9
70°-80°	569.5	20.6
80°-90°	133.4	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°	2765.0	100.0
0°-180°	2765.0	100.0

Coefficient of Utilization



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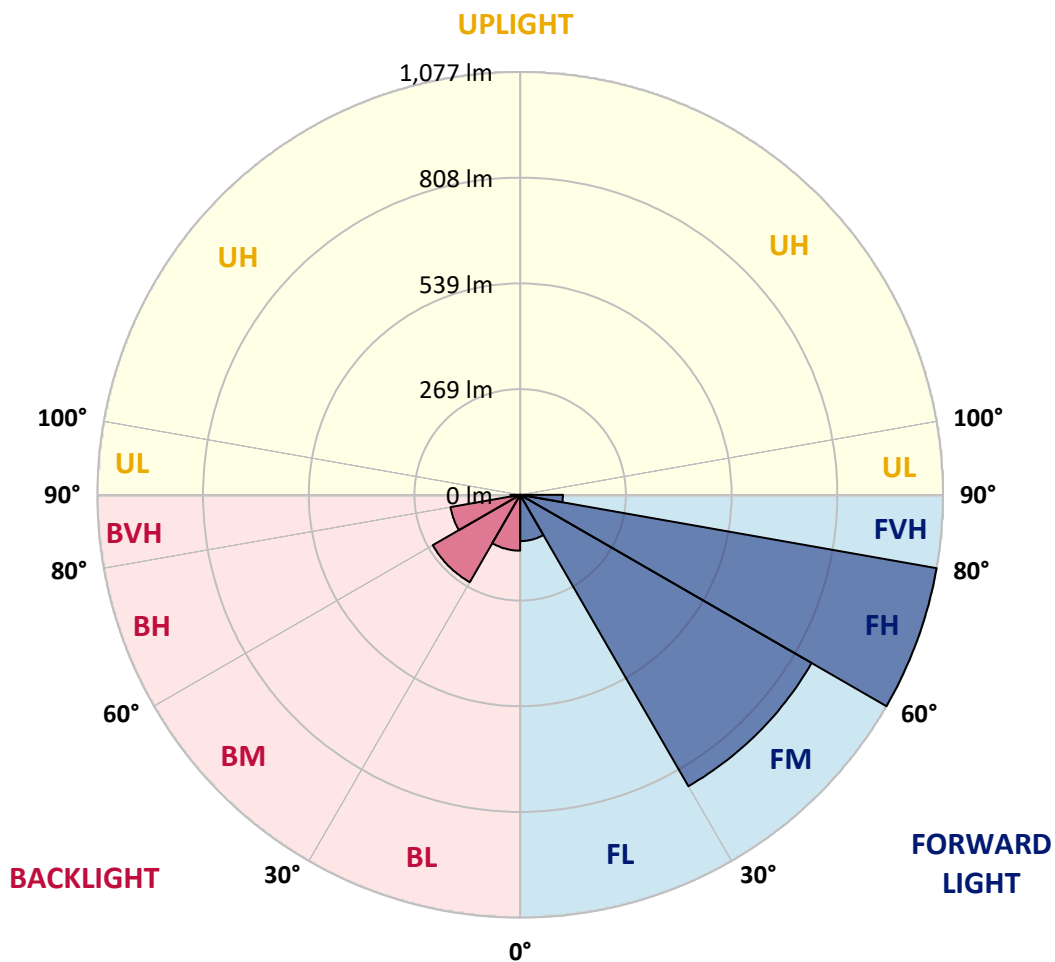
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.1	4.3			
FM	(30°-60°)	857.1	31.0			
FH	(60°-80°)	1077.1	39.0			G1/1800
FVH	(80°-90°)	108.8	3.9			G2/225
BL	(0°-30°)	142.2	5.1	B1/500		
BM	(30°-60°)	257.0	9.3	B1/1000		
BH	(60°-80°)	180.1	6.5	B1/500		G1/500
BVH	(80°-90°)	24.5	0.9			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°	55°	56°	65°	75°	85°
0°	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2
2.5°	265.4	265.4	265.4	265.4	267.5	267.5	267.5	267.5	269.7	269.7	271.8
5°	246.3	246.3	248.4	250.5	252.7	256.9	261.2	261.2	265.4	267.5	271.8
7.5°	237.8	237.8	239.9	242.1	244.2	246.3	254.8	254.8	261.2	269.7	276.0
10°	231.4	233.6	233.6	237.8	239.9	244.2	250.5	250.5	261.2	273.9	282.4
12.5°	231.4	231.4	231.4	233.6	235.7	242.1	254.8	254.8	265.4	282.4	293.0
15°	231.4	231.4	229.3	229.3	233.6	244.2	261.2	261.2	276.0	293.0	307.9
17.5°	229.3	229.3	227.2	227.2	233.6	246.3	267.5	269.7	286.6	307.9	322.7
20°	227.2	227.2	225.1	227.2	235.7	250.5	273.9	276.0	299.4	320.6	335.5
22.5°	235.7	233.6	229.3	231.4	239.9	256.9	282.4	284.5	312.1	335.5	350.3
25°	269.7	265.4	254.8	250.5	252.7	265.4	293.0	295.1	327.0	350.3	363.1
27.5°	312.1	307.9	297.3	286.6	276.0	282.4	305.8	307.9	344.0	367.3	377.9
30°	356.7	352.5	344.0	329.1	312.1	305.8	320.6	322.7	363.1	386.4	392.8
32.5°	397.1	394.9	382.2	369.5	356.7	341.8	346.1	346.1	380.1	403.4	407.7
35°	448.0	456.5	441.6	414.0	399.2	386.4	377.9	377.9	405.5	428.9	424.7
37.5°	499.0	507.5	516.0	469.2	448.0	433.2	422.5	420.4	439.5	458.6	448.0
40°	588.2	586.0	579.7	541.4	513.8	494.7	479.9	479.9	484.1	496.9	479.9
42.5°	717.7	726.2	685.8	645.5	600.9	579.7	558.4	554.2	532.9	545.7	518.1
45°	876.9	870.5	830.2	766.5	713.4	677.3	645.5	634.9	590.3	600.9	564.8
47.5°	993.7	976.7	947.0	887.5	862.1	796.2	726.2	711.3	645.5	658.2	624.2
50°	1097.7	1063.8	1025.5	987.3	995.8	942.7	802.6	783.5	704.9	728.3	685.8
52.5°	1148.7	1076.5	1068.0	1063.8	1076.5	1070.1	870.5	849.3	779.2	811.1	755.9
55°	1076.5	1070.1	1085.0	1110.5	1146.6	1144.5	938.5	917.3	870.5	900.3	834.5
57.5°	1017.1	1031.9	1082.9	1140.2	1231.5	1216.6	1010.7	995.8	976.7	993.7	919.4
60°	974.6	987.3	1065.9	1167.8	1299.5	1278.2	1108.4	1093.5	1089.2	1089.2	1012.8
62.5°	893.9	898.2	1002.2	1174.2	1312.2	1339.8	1216.6	1214.5	1210.3	1184.8	1116.9
65°	794.1	792.0	898.2	1133.8	1322.8	1392.9	1352.5	1348.3	1331.3	1278.2	1242.1
67.5°	683.7	687.9	777.1	1021.3	1291.0	1424.7	1475.7	1473.6	1433.2	1356.8	1365.3
70°	603.0	603.0	660.3	883.3	1212.4	1426.9	1579.7	1586.1	1505.4	1386.5	1433.2
72.5°	475.6	471.4	522.3	702.8	1061.6	1375.9	1647.7	1647.7	1499.0	1365.3	1429.0
75°	280.3	273.9	310.0	454.4	787.7	1174.2	1658.3	1660.4	1454.5	1316.4	1316.4
77.5°	112.5	108.3	135.9	210.2	448.0	830.2	1558.5	1584.0	1416.2	1259.1	1091.4
80°	48.8	46.7	61.6	87.1	199.6	388.6	1237.9	1282.5	1231.5	1108.4	766.5
82.5°	31.8	31.8	42.5	51.0	108.3	116.8	668.8	673.1	834.5	809.0	390.7
85°	34.0	34.0	36.1	34.0	70.1	48.8	186.8	197.5	371.6	426.8	114.7
87.5°	19.1	17.0	40.3	19.1	38.2	21.2	42.5	44.6	74.3	76.4	23.4
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°	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2
2.5°	273.9	273.9	276.0	278.2	282.4	284.5	288.8	288.8	293.0	290.9	293.0
5°	273.9	276.0	278.2	284.5	288.8	295.1	301.5	305.8	310.0	312.1	312.1
7.5°	278.2	282.4	288.8	297.3	305.8	310.0	316.4	322.7	329.1	333.4	335.5
10°	286.6	290.9	299.4	310.0	322.7	331.2	339.7	344.0	346.1	348.2	348.2
12.5°	297.3	303.6	316.4	329.1	341.8	348.2	344.0	341.8	344.0	346.1	348.2
15°	312.1	320.6	333.4	346.1	356.7	346.1	346.1	352.5	358.8	361.0	363.1
17.5°	329.1	333.4	348.2	361.0	354.6	350.3	358.8	365.2	367.3	367.3	367.3
20°	341.8	348.2	361.0	365.2	350.3	356.7	363.1	365.2	363.1	363.1	361.0
22.5°	356.7	361.0	369.5	358.8	350.3	354.6	354.6	352.5	350.3	350.3	350.3
25°	369.5	371.6	373.7	350.3	346.1	341.8	335.5	333.4	329.1	327.0	329.1
27.5°	380.1	382.2	371.6	344.0	333.4	316.4	307.9	301.5	301.5	301.5	301.5
30°	390.7	386.4	369.5	333.4	307.9	282.4	269.7	267.5	271.8	273.9	273.9
32.5°	401.3	392.8	365.2	320.6	278.2	242.1	233.6	233.6	239.9	239.9	242.1
35°	416.2	403.4	365.2	301.5	244.2	208.1	201.7	199.6	199.6	201.7	201.7
37.5°	435.3	418.3	367.3	280.3	214.5	182.6	176.2	169.9	165.6	159.2	159.2
40°	460.8	437.4	365.2	259.0	191.1	165.6	155.0	146.5	140.1	131.6	131.6
42.5°	492.6	467.1	367.3	237.8	176.2	152.9	140.1	131.6	123.2	114.7	112.5
45°	537.2	501.1	367.3	218.7	167.7	144.4	131.6	121.0	114.7	108.3	106.2
47.5°	586.0	541.4	365.2	203.8	157.1	138.0	123.2	112.5	108.3	99.8	99.8
50°	643.4	590.3	358.8	195.3	144.4	129.5	116.8	106.2	97.7	95.5	93.4
52.5°	711.3	651.9	352.5	180.5	131.6	121.0	110.4	99.8	97.7	93.4	93.4
55°	796.2	717.7	352.5	161.4	116.8	116.8	104.0	99.8	104.0	93.4	93.4
57.5°	902.4	781.4	344.0	135.9	104.0	110.4	104.0	104.0	110.4	93.4	91.3
60°	1025.5	849.3	307.9	114.7	95.5	104.0	108.3	106.2	106.2	97.7	91.3
62.5°	1150.8	925.8	242.1	99.8	89.2	101.9	108.3	101.9	95.5	95.5	95.5
65°	1259.1	987.3	159.2	91.3	84.9	99.8	108.3	97.7	91.3	95.5	93.4
67.5°	1307.9	1008.6	108.3	82.8	80.7	97.7	101.9	93.4	87.1	97.7	95.5
70°	1274.0	966.1	84.9	74.3	76.4	93.4	97.7	89.2	84.9	95.5	91.3
72.5°	1184.8	859.9	72.2	67.9	70.1	87.1	93.4	87.1	82.8	87.1	82.8
75°	1046.8	687.9	63.7	59.5	63.7	82.8	87.1	82.8	78.6	78.6	76.4
77.5°	794.1	433.2	53.1	53.1	55.2	74.3	80.7	78.6	72.2	70.1	70.1
80°	488.4	197.5	44.6	46.7	48.8	67.9	74.3	72.2	67.9	65.8	63.7
82.5°	233.6	70.1	36.1	38.2	40.3	61.6	67.9	65.8	61.6	65.8	55.2
85°	65.8	38.2	25.5	29.7	31.8	48.8	57.3	59.5	55.2	51.0	48.8
87.5°	23.4	23.4	14.9	19.1	21.2	38.2	44.6	46.7	46.7	40.3	38.2
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)