

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: P459570

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

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-10)  
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  
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE II  
U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

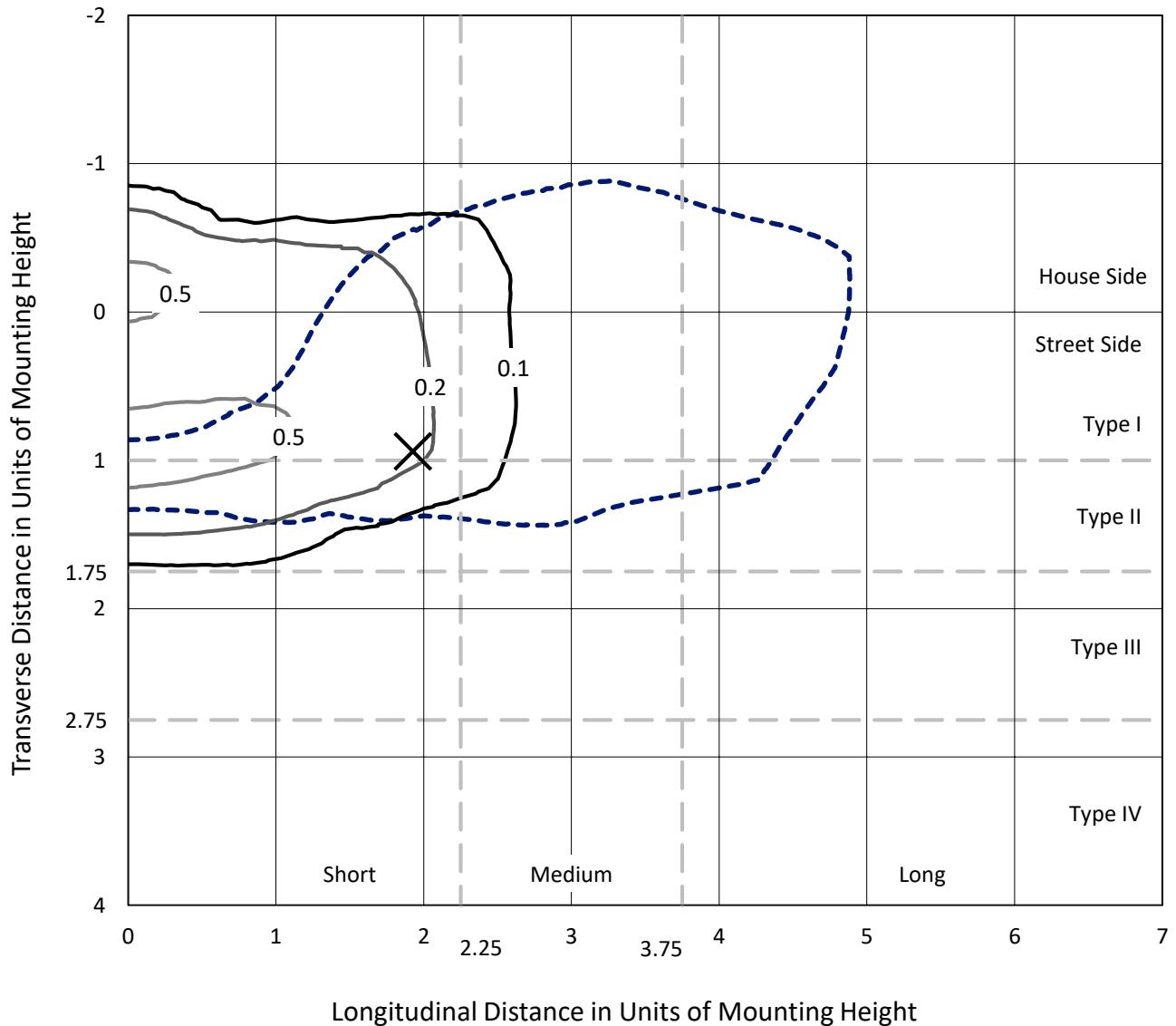
Lumens per Lamp: N/A  
Luminaire Lumens: 2756 lumens  
Efficiency: N/A  
Efficacy: 45.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 60.6  
Input Voltage (V): NR  
Input Current (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



REPORT NUMBER: P459570  
 CATALOG NUMBER: ARCH-M-PA2-60-AMB-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

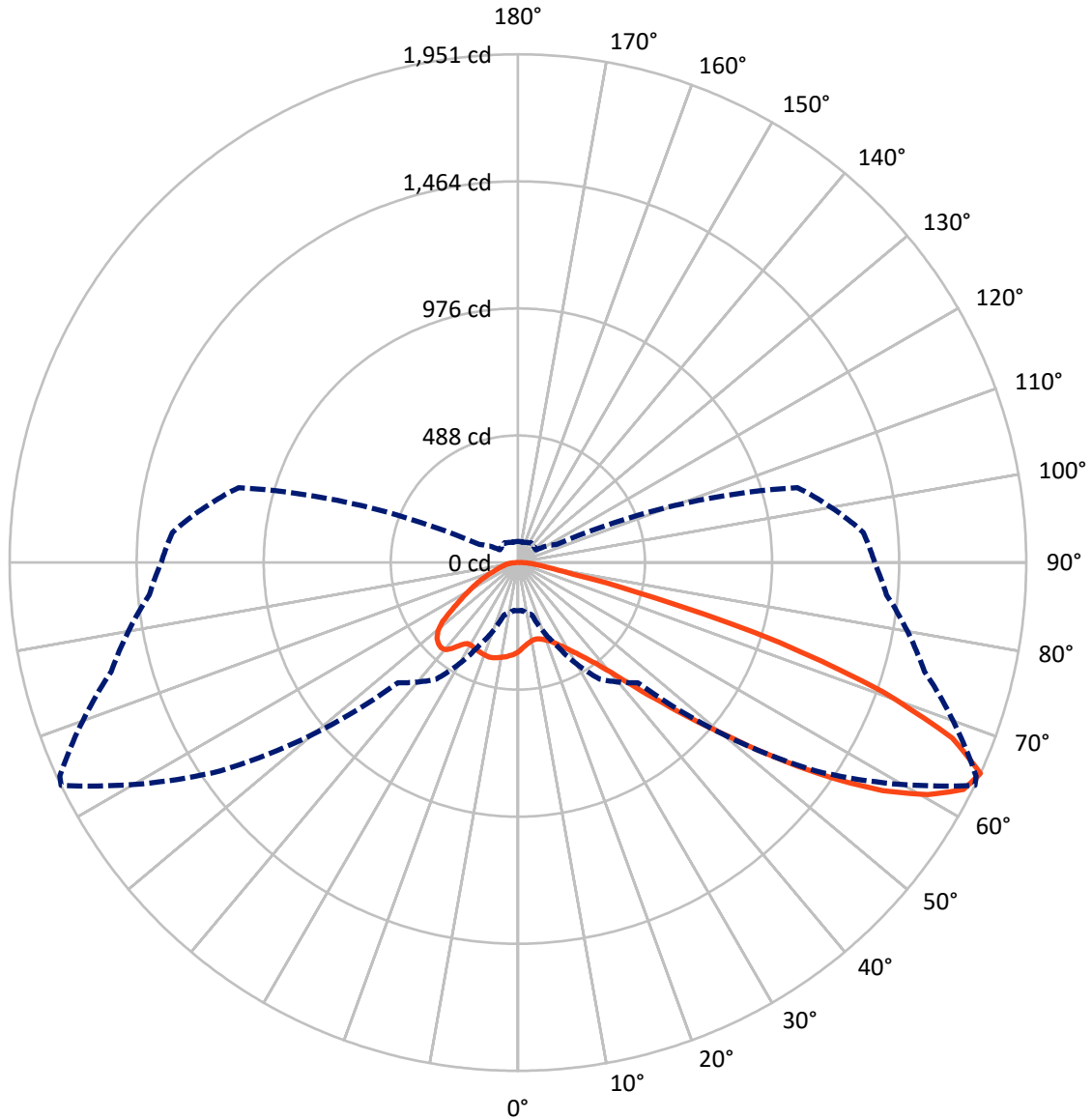
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P459570  
CATALOG NUMBER: ARCH-M-PA2-60-AMB-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P459570

CATALOG NUMBER: ARCH-M-PA2-60-AMB-U-T2U

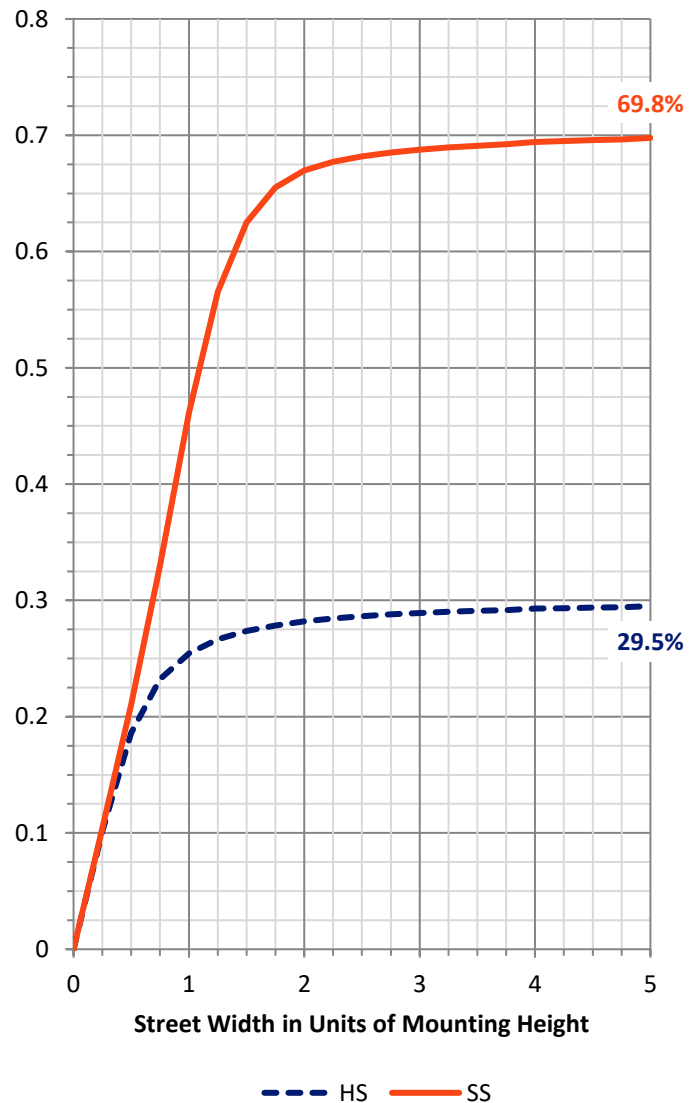
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	824.7	0.0	824.7
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	1931.3	0.0	1931.3
	% Fixture	70.1	0.0	70.1
<b>Total</b>	Lumens	2756.0	0.0	2756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.4	1.2
10°-20°	95.8	3.5
20°-30°	162.9	5.9
30°-40°	259.8	9.4
40°-50°	471.6	17.1
50°-60°	677.3	24.6
60°-70°	621.0	22.5
70°-80°	363.2	13.2
80°-90°	72.0	2.6
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°	2756.0	100.0
0°-180°	2756.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459570

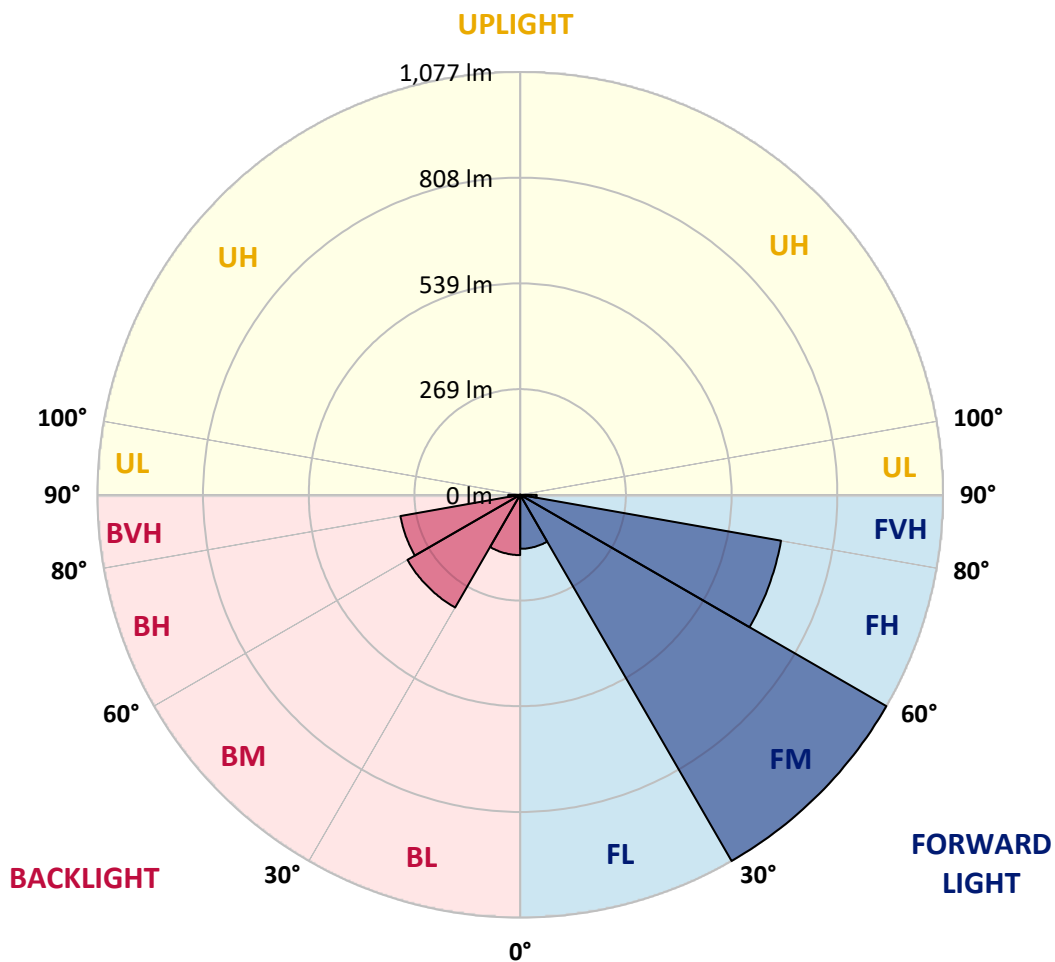
CATALOG NUMBER: ARCH-M-PA2-60-AMB-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.5	5.0			
FM (30°-60°)	1077.1	39.1			
FH (60°-80°)	674.6	24.5			G1/1800
FVH (80°-90°)	42.0	1.5			G1/100
BL (0°-30°)	153.5	5.6	B1/500		
BM (30°-60°)	331.6	12.0	B1/1000		
BH (60°-80°)	309.6	11.2	B1/500		G1/500
BVH (80°-90°)	30.0	1.1			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 Short





REPORT NUMBER: P459570

CATALOG NUMBER: ARCH-M-PA2-60-AMB-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9
2.5°	318.5	318.5	320.6	320.6	322.8	324.9	327.0	329.1	329.1	333.4	337.6
5°	301.5	301.5	303.6	303.6	305.8	307.9	312.1	318.5	318.5	324.9	333.4
7.5°	290.9	290.9	290.9	293.0	295.2	297.3	303.6	310.0	310.0	318.5	329.1
10°	284.5	284.5	284.5	284.5	286.7	290.9	297.3	303.6	303.6	314.3	324.9
12.5°	280.3	280.3	280.3	280.3	282.4	286.7	295.2	301.5	301.5	312.1	324.9
15°	282.4	282.4	282.4	282.4	284.5	288.8	295.2	303.6	303.6	314.3	327.0
17.5°	284.5	286.7	284.5	288.8	290.9	295.2	301.5	310.0	310.0	320.6	331.2
20°	288.8	290.9	290.9	297.3	299.4	303.6	310.0	318.5	318.5	329.1	335.5
22.5°	299.4	301.5	303.6	312.1	312.1	316.4	322.8	329.1	331.2	339.7	341.9
25°	322.8	324.9	329.1	335.5	331.2	335.5	339.7	346.1	346.1	352.5	350.4
27.5°	367.3	367.3	373.7	371.6	361.0	361.0	363.1	365.2	365.2	367.3	363.1
30°	428.9	428.9	431.0	422.6	403.4	392.8	388.6	388.6	388.6	388.6	378.0
32.5°	503.2	505.4	509.6	492.6	458.7	437.4	420.4	416.2	414.1	414.1	401.3
35°	609.4	609.4	605.2	588.2	539.3	494.8	460.8	452.3	448.0	448.0	431.0
37.5°	751.7	749.6	734.7	702.8	641.3	575.4	516.0	494.8	492.6	490.5	473.5
40°	919.4	910.9	893.9	849.4	762.3	681.6	603.0	558.5	556.3	547.8	524.5
42.5°	1072.3	1072.3	1044.7	1012.9	919.4	849.4	707.1	643.4	637.0	620.0	592.4
45°	1193.3	1182.7	1163.6	1150.9	1095.7	1042.6	843.0	753.8	743.2	711.3	671.0
47.5°	1237.9	1214.6	1216.7	1237.9	1257.0	1225.2	1006.5	891.8	874.8	819.6	770.8
50°	1172.1	1159.4	1174.2	1254.9	1363.2	1414.2	1221.0	1051.1	1032.0	961.9	887.6
52.5°	1006.5	1010.7	1055.3	1178.5	1384.5	1548.0	1433.3	1248.6	1218.8	1110.5	1019.2
55°	830.2	838.7	908.8	1036.2	1308.0	1594.7	1618.0	1456.6	1420.6	1254.9	1136.0
57.5°	641.3	656.1	747.4	883.3	1157.2	1505.5	1749.7	1652.0	1615.9	1386.6	1246.4
60°	424.7	437.4	550.0	732.6	951.3	1278.3	1779.4	1809.1	1775.2	1497.0	1342.0
62.5°	284.5	288.8	337.6	556.3	743.2	961.9	1688.1	1919.5	1896.2	1579.8	1401.4
65°	184.7	184.7	208.1	350.4	545.7	651.9	1395.1	1951.4	1940.8	1615.9	1420.6
67.5°	129.5	129.5	140.1	203.8	388.6	397.1	934.3	1798.5	1830.4	1594.7	1388.7
70°	114.7	116.8	125.3	140.1	286.7	248.4	496.9	1486.4	1556.4	1511.9	1312.3
72.5°	99.8	101.9	116.8	129.5	206.0	174.1	235.7	1051.1	1144.5	1426.9	1235.8
75°	82.8	84.9	95.6	121.0	148.6	138.0	150.8	541.5	647.6	1261.3	1170.0
77.5°	65.8	67.9	76.4	95.6	123.2	104.0	123.2	220.8	293.0	927.9	1034.1
80°	44.6	46.7	55.2	70.1	91.3	82.8	95.6	116.8	133.8	541.5	783.5
82.5°	31.9	31.9	40.3	48.8	63.7	70.1	63.7	82.8	84.9	252.7	465.0
85°	23.4	23.4	27.6	31.9	38.2	44.6	42.5	55.2	57.3	101.9	140.1
87.5°	10.6	10.6	17.0	14.9	19.1	21.2	27.6	27.6	27.6	44.6	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



REPORT NUMBER: P459570

CATALOG NUMBER: ARCH-M-PA2-60-AMB-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9
2.5°	339.7	341.9	346.1	350.4	354.6	356.7	358.9	361.0	361.0	363.1	363.1
5°	337.6	341.9	350.4	356.7	365.2	369.5	373.7	378.0	380.1	382.2	382.2
7.5°	335.5	341.9	352.5	363.1	373.7	380.1	386.5	390.7	395.0	395.0	397.1
10°	333.4	339.7	354.6	367.3	380.1	390.7	395.0	399.2	401.3	403.4	403.4
12.5°	331.2	339.7	356.7	371.6	386.5	397.1	401.3	403.4	401.3	401.3	401.3
15°	333.4	341.9	358.9	375.8	390.7	399.2	401.3	392.8	382.2	375.8	375.8
17.5°	335.5	344.0	361.0	378.0	392.8	397.1	384.3	371.6	363.1	361.0	361.0
20°	337.6	344.0	361.0	375.8	388.6	384.3	369.5	365.2	363.1	365.2	363.1
22.5°	341.9	348.2	361.0	373.7	382.2	373.7	369.5	369.5	361.0	358.9	356.7
25°	350.4	352.5	361.0	371.6	373.7	373.7	365.2	354.6	346.1	346.1	346.1
27.5°	358.9	358.9	361.0	367.3	373.7	369.5	341.9	331.2	327.0	324.9	324.9
30°	369.5	367.3	361.0	363.1	380.1	344.0	307.9	297.3	295.2	293.0	293.0
32.5°	388.6	380.1	363.1	365.2	371.6	303.6	263.3	252.7	252.7	252.7	252.7
35°	416.2	403.4	375.8	386.5	348.2	256.9	214.5	208.1	212.3	214.5	214.5
37.5°	454.4	435.3	395.0	420.4	320.6	208.1	172.0	172.0	174.1	178.4	178.4
40°	503.2	477.8	424.7	450.2	286.7	161.4	142.3	142.3	142.3	142.3	142.3
42.5°	564.8	533.0	465.0	462.9	239.9	133.8	125.3	121.0	118.9	114.7	114.7
45°	639.1	596.7	526.6	462.9	191.1	121.0	114.7	110.4	106.2	99.8	99.8
47.5°	726.2	673.1	596.7	454.4	155.0	118.9	112.5	104.0	99.8	97.7	95.6
50°	832.4	764.4	671.0	433.2	131.7	116.8	106.2	99.8	97.7	95.6	93.4
52.5°	949.2	872.7	745.3	392.8	123.2	114.7	101.9	97.7	93.4	93.4	93.4
55°	1065.9	983.1	809.0	329.1	112.5	108.3	99.8	95.6	91.3	91.3	91.3
57.5°	1170.0	1082.9	874.8	278.2	104.0	101.9	97.7	93.4	89.2	89.2	89.2
60°	1261.3	1176.4	944.9	237.8	97.7	97.7	95.6	91.3	87.1	87.1	87.1
62.5°	1331.4	1254.9	1027.7	201.7	91.3	91.3	93.4	89.2	82.8	82.8	82.8
65°	1369.6	1331.4	1110.5	165.6	84.9	87.1	91.3	84.9	80.7	80.7	80.7
67.5°	1352.6	1365.3	1157.2	133.8	76.4	80.7	87.1	80.7	76.4	76.4	76.4
70°	1284.7	1344.1	1142.4	106.2	70.1	76.4	80.7	76.4	70.1	72.2	70.1
72.5°	1214.6	1325.0	1057.4	84.9	65.8	70.1	74.3	70.1	65.8	65.8	63.7
75°	1159.4	1274.0	855.7	72.2	57.3	63.7	67.9	63.7	59.5	59.5	57.3
77.5°	1053.2	1093.5	537.2	59.5	51.0	55.2	59.5	55.2	53.1	51.0	48.8
80°	806.9	753.8	229.3	51.0	44.6	48.8	51.0	48.8	46.7	42.5	40.3
82.5°	452.3	361.0	80.7	40.3	38.2	42.5	42.5	42.5	40.3	38.2	34.0
85°	129.5	99.8	44.6	29.7	29.7	29.7	34.0	36.1	34.0	29.7	25.5
87.5°	19.1	27.6	27.6	19.1	19.1	19.1	23.4	23.4	25.5	19.1	19.1
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)