

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **ARCH3-60-AMB-U-T4W**

Issue Date: 12/16/2024

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-10)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ARCH3-60-AMB-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2564 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

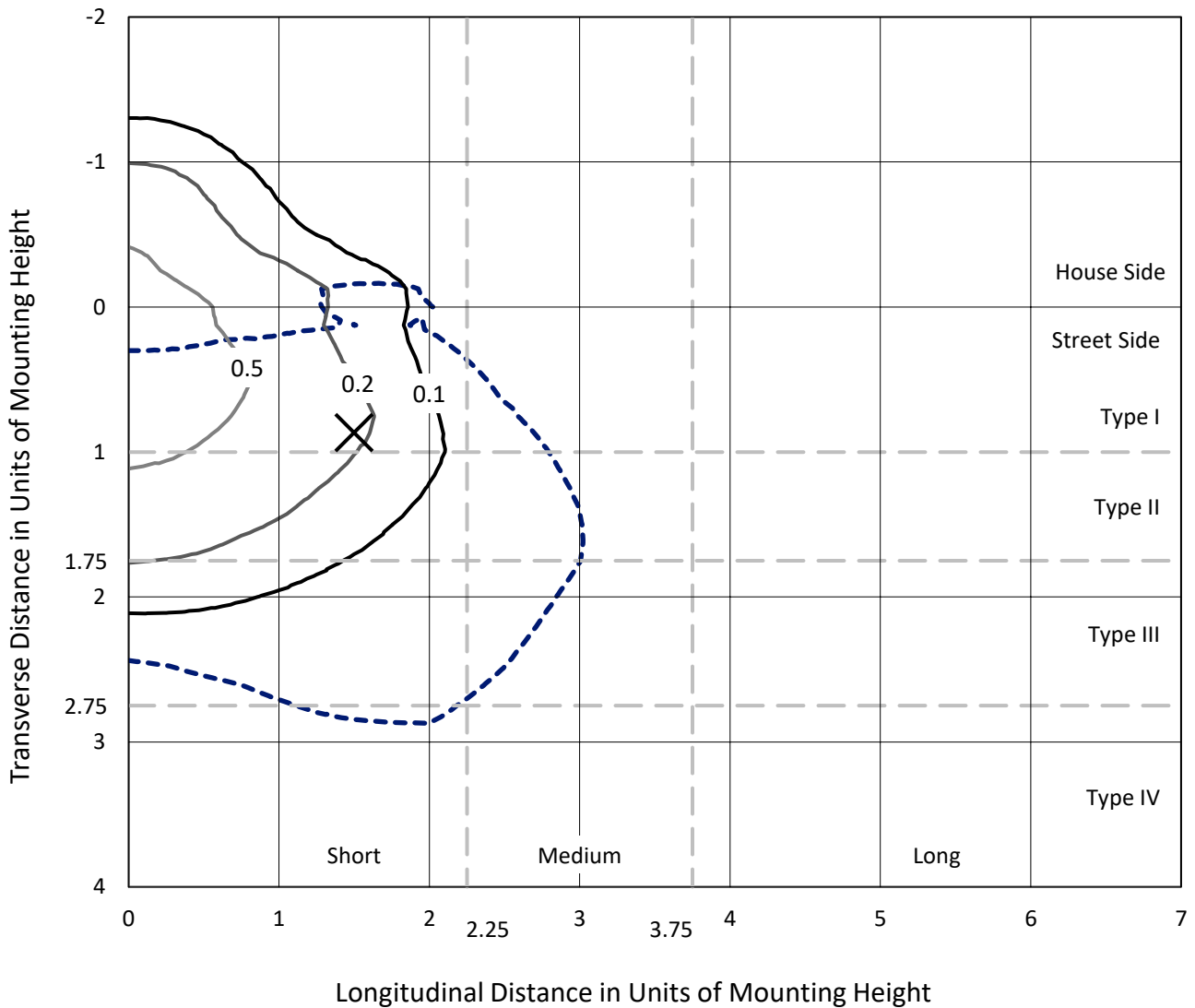
Input Watts (W): 58.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

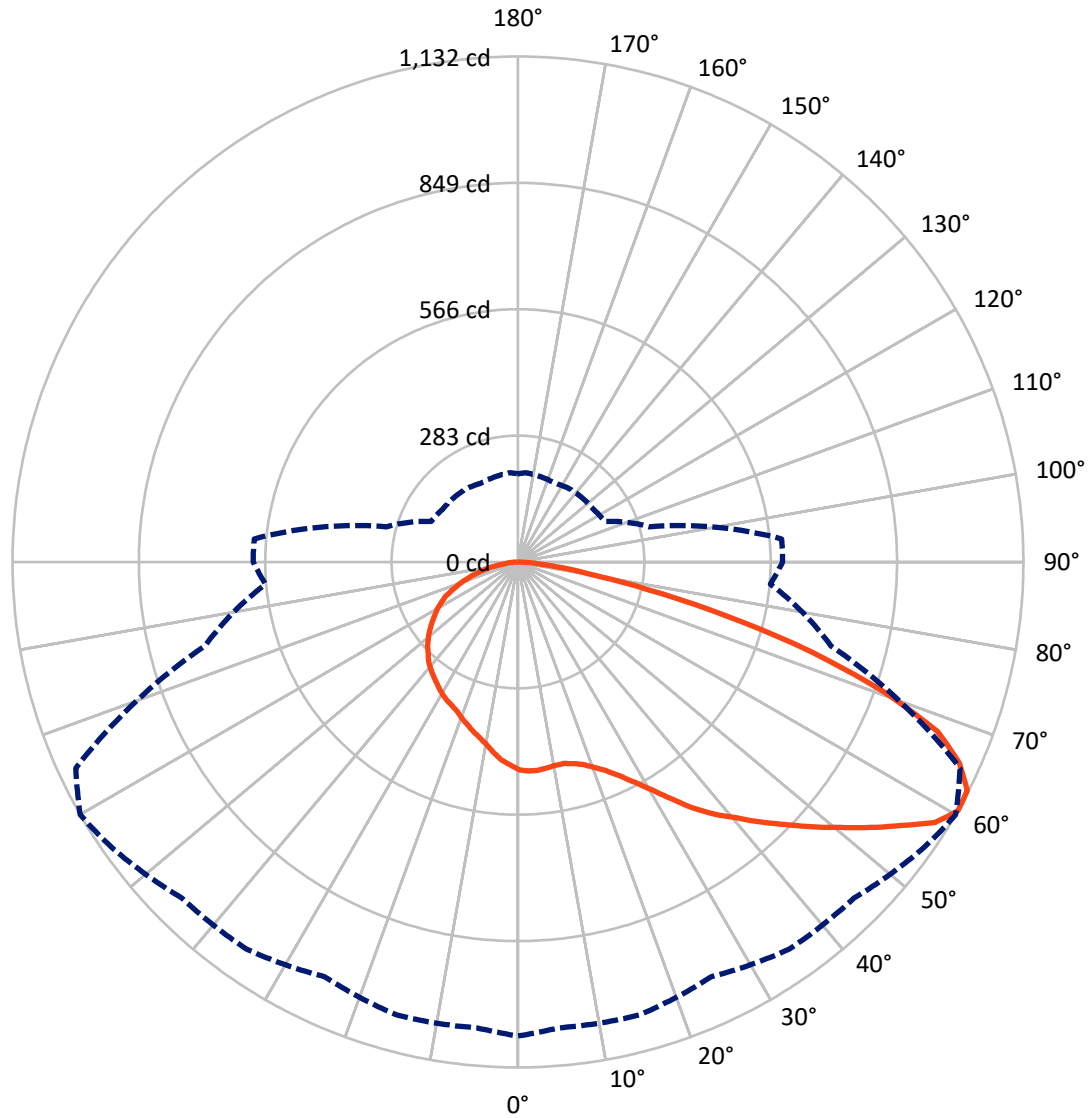
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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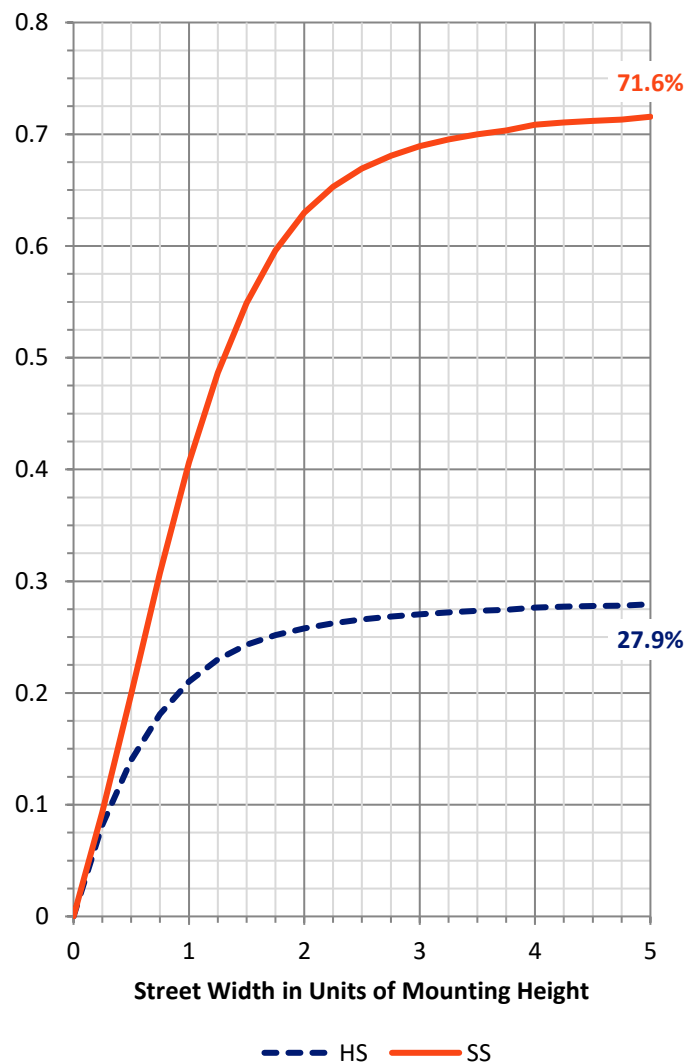
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	722.6	0.0	722.6
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	1841.4	0.0	1841.4
	% Fixture	71.8	0.0	71.8
Total	Lumens	2564.0	0.0	2564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	1.7
10°-20°	127.2	5.0
20°-30°	221.6	8.6
30°-40°	336.3	13.1
40°-50°	456.5	17.8
50°-60°	554.3	21.6
60°-70°	524.6	20.5
70°-80°	260.8	10.2
80°-90°	39.9	1.6
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°	2564.0	100.0
0°-180°	2564.0	100.0

Coefficient of Utilization



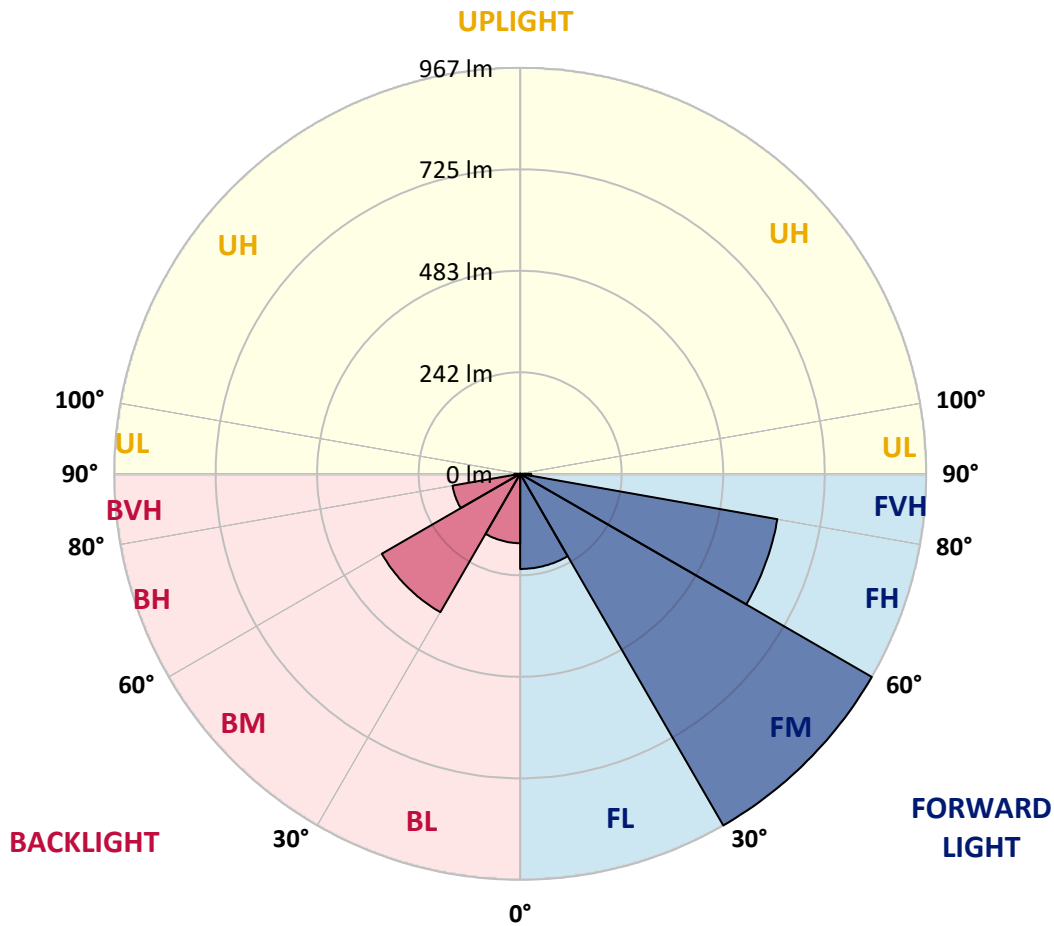
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.6	8.8			
FM (30°-60°)	966.7	37.7			
FH (60°-80°)	621.9	24.3			G0/660
FVH (80°-90°)	26.2	1.0			G1/100
BL (0°-30°)	165.0	6.4	B1/500		
BM (30°-60°)	380.4	14.8	B1/1000		
BH (60°-80°)	163.5	6.4	B1/500		G1/500
BVH (80°-90°)	13.7	0.5			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9
2.5°	471.6	471.6	471.6	471.6	471.6	468.7	468.7	468.7	465.9	465.9	463.1
5°	471.6	471.6	471.6	471.6	471.6	468.7	468.7	468.7	465.9	465.9	463.1
7.5°	474.4	474.4	474.4	471.6	471.6	465.9	465.9	465.9	463.1	463.1	460.3
10°	485.7	488.5	485.7	480.0	474.4	468.7	463.1	463.1	460.3	460.3	457.4
12.5°	513.9	513.9	508.3	499.8	491.3	477.2	468.7	463.1	460.3	457.4	454.6
15°	550.6	550.6	545.0	530.9	516.7	494.1	477.2	468.7	463.1	460.3	457.4
17.5°	584.5	587.3	578.9	561.9	545.0	516.7	488.5	477.2	468.7	460.3	457.4
20°	607.1	607.1	604.3	590.1	576.0	542.1	508.3	491.3	477.2	463.1	457.4
22.5°	618.4	621.2	618.4	609.9	598.6	570.4	530.9	508.3	488.5	465.9	460.3
25°	632.5	635.3	632.5	624.0	621.2	598.6	556.3	530.9	505.4	474.4	463.1
27.5°	663.6	666.4	657.9	643.8	641.0	624.0	587.3	559.1	528.0	482.8	468.7
30°	720.0	720.0	708.7	677.7	663.6	652.3	624.0	593.0	556.3	494.1	474.4
32.5°	790.6	790.6	773.7	725.7	703.1	683.3	663.6	632.5	587.3	508.3	482.8
35°	855.6	855.6	838.6	785.0	745.5	722.9	708.7	677.7	624.0	525.2	485.7
37.5°	906.4	909.2	889.5	835.8	801.9	759.6	745.5	717.2	652.3	533.7	488.5
40°	957.2	954.4	929.0	869.7	844.3	799.1	782.2	753.9	697.4	553.4	494.1
42.5°	993.9	979.8	962.9	900.8	883.8	847.1	818.9	796.3	739.8	570.4	502.6
45°	1036.3	1013.7	982.6	934.6	914.9	889.5	858.4	838.6	785.0	593.0	513.9
47.5°	1050.4	1025.0	1005.2	979.8	948.8	929.0	903.6	886.6	830.2	618.4	525.2
50°	1056.1	1030.6	1030.6	999.6	977.0	960.1	948.8	934.6	878.2	643.8	533.7
52.5°	1036.3	1041.9	1047.6	1010.9	1005.2	991.1	999.6	988.3	926.2	669.2	545.0
55°	1067.4	1067.4	1067.4	1027.8	1036.3	1022.2	1044.8	1041.9	985.5	694.6	559.1
57.5°	1089.9	1087.1	1087.1	1053.2	1064.5	1053.2	1087.1	1101.2	1047.6	717.2	567.6
60°	1061.7	1047.6	1050.4	1025.0	1058.9	1064.5	1112.5	1132.3	1092.8	725.7	567.6
62.5°	943.1	940.3	960.1	948.8	1008.1	1044.8	1098.4	1129.5	1109.7	728.5	556.3
65°	773.7	785.0	835.8	878.2	940.3	1010.9	1056.1	1087.1	1078.6	708.7	533.7
67.5°	570.4	590.1	677.7	787.8	864.0	951.6	1008.1	1013.7	985.5	624.0	457.4
70°	440.5	449.0	539.3	672.0	770.9	833.0	903.6	866.9	796.3	513.9	364.3
72.5°	310.6	319.1	420.7	547.8	657.9	683.3	703.1	686.2	609.9	401.0	285.2
75°	203.3	209.0	290.8	406.6	511.1	505.4	465.9	480.0	451.8	310.6	220.2
77.5°	135.5	138.4	183.5	259.8	336.0	344.5	288.0	296.5	305.0	223.1	160.9
80°	87.5	90.4	115.8	152.5	169.4	209.0	172.2	158.1	158.1	141.2	110.1
82.5°	48.0	50.8	64.9	84.7	87.5	93.2	87.5	87.5	84.7	87.5	73.4
85°	19.8	19.8	25.4	31.1	31.1	36.7	39.5	39.5	39.5	45.2	39.5
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	8.5	8.5	8.5	8.5	5.6
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°	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9
2.5°	465.9	463.1	460.3	457.4	454.6	454.6	451.8	451.8	449.0	449.0	451.8
5°	463.1	460.3	454.6	449.0	443.3	437.7	432.0	429.2	426.4	423.6	423.6
7.5°	460.3	457.4	449.0	437.7	426.4	417.9	409.4	403.8	401.0	398.1	401.0
10°	457.4	451.8	440.5	423.6	409.4	398.1	386.8	384.0	381.2	381.2	384.0
12.5°	454.6	449.0	434.8	412.3	395.3	384.0	375.5	372.7	372.7	375.5	375.5
15°	454.6	449.0	429.2	403.8	384.0	372.7	369.9	372.7	372.7	378.4	378.4
17.5°	454.6	446.1	423.6	392.5	372.7	367.1	367.1	372.7	378.4	384.0	384.0
20°	454.6	446.1	415.1	381.2	364.3	361.4	367.1	375.5	384.0	389.7	392.5
22.5°	457.4	446.1	409.4	369.9	353.0	358.6	367.1	378.4	386.8	395.3	398.1
25°	460.3	449.0	403.8	361.4	347.3	353.0	367.1	381.2	389.7	401.0	401.0
27.5°	465.9	451.8	403.8	355.8	341.7	347.3	364.3	381.2	392.5	403.8	406.6
30°	471.6	457.4	403.8	350.1	333.2	341.7	358.6	381.2	392.5	403.8	406.6
32.5°	477.2	463.1	401.0	341.7	324.7	330.4	353.0	378.4	389.7	401.0	406.6
35°	482.8	468.7	401.0	336.0	313.4	319.1	341.7	372.7	386.8	395.3	401.0
37.5°	488.5	480.0	406.6	327.5	305.0	310.6	330.4	364.3	381.2	386.8	392.5
40°	499.8	494.1	409.4	321.9	293.7	299.3	319.1	355.8	372.7	375.5	378.4
42.5°	511.1	511.1	412.3	313.4	285.2	288.0	307.8	344.5	358.6	361.4	361.4
45°	525.2	528.0	415.1	299.3	273.9	276.7	296.5	330.4	344.5	347.3	347.3
47.5°	539.3	545.0	412.3	288.0	265.4	271.1	285.2	310.6	327.5	330.4	330.4
50°	553.4	561.9	403.8	273.9	254.1	259.8	268.2	290.8	302.1	307.8	305.0
52.5°	567.6	578.9	386.8	259.8	242.8	248.5	251.3	265.4	276.7	276.7	273.9
55°	584.5	593.0	364.3	242.8	231.5	234.4	234.4	242.8	245.7	248.5	242.8
57.5°	595.8	598.6	336.0	228.7	217.4	220.2	217.4	217.4	220.2	223.1	220.2
60°	593.0	593.0	305.0	214.6	206.1	203.3	200.5	194.8	197.7	200.5	197.7
62.5°	581.7	567.6	273.9	197.7	192.0	183.5	180.7	177.9	180.7	180.7	177.9
65°	547.8	511.1	240.0	183.5	175.1	163.8	166.6	163.8	163.8	163.8	163.8
67.5°	457.4	395.3	203.3	163.8	155.3	146.8	152.5	146.8	149.7	155.3	152.5
70°	358.6	296.5	169.4	144.0	132.7	129.9	135.5	132.7	135.5	141.2	138.4
72.5°	276.7	220.2	144.0	121.4	112.9	112.9	118.6	118.6	121.4	127.1	127.1
75°	209.0	166.6	121.4	101.7	93.2	93.2	98.8	98.8	101.7	110.1	101.7
77.5°	152.5	127.1	101.7	79.1	73.4	73.4	76.2	81.9	84.7	87.5	84.7
80°	104.5	90.4	70.6	56.5	53.6	53.6	59.3	59.3	59.3	62.1	62.1
82.5°	70.6	62.1	45.2	36.7	33.9	33.9	36.7	42.4	42.4	45.2	42.4
85°	36.7	33.9	28.2	19.8	19.8	19.8	19.8	16.9	16.9	14.1	14.1
87.5°	5.6	5.6	8.5	8.5	8.5	8.5	5.6	5.6	2.8	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)