

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: P594522

Luminaire Tested: **ISS-PA1A-AMB-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-PA1A-AMB-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1348 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

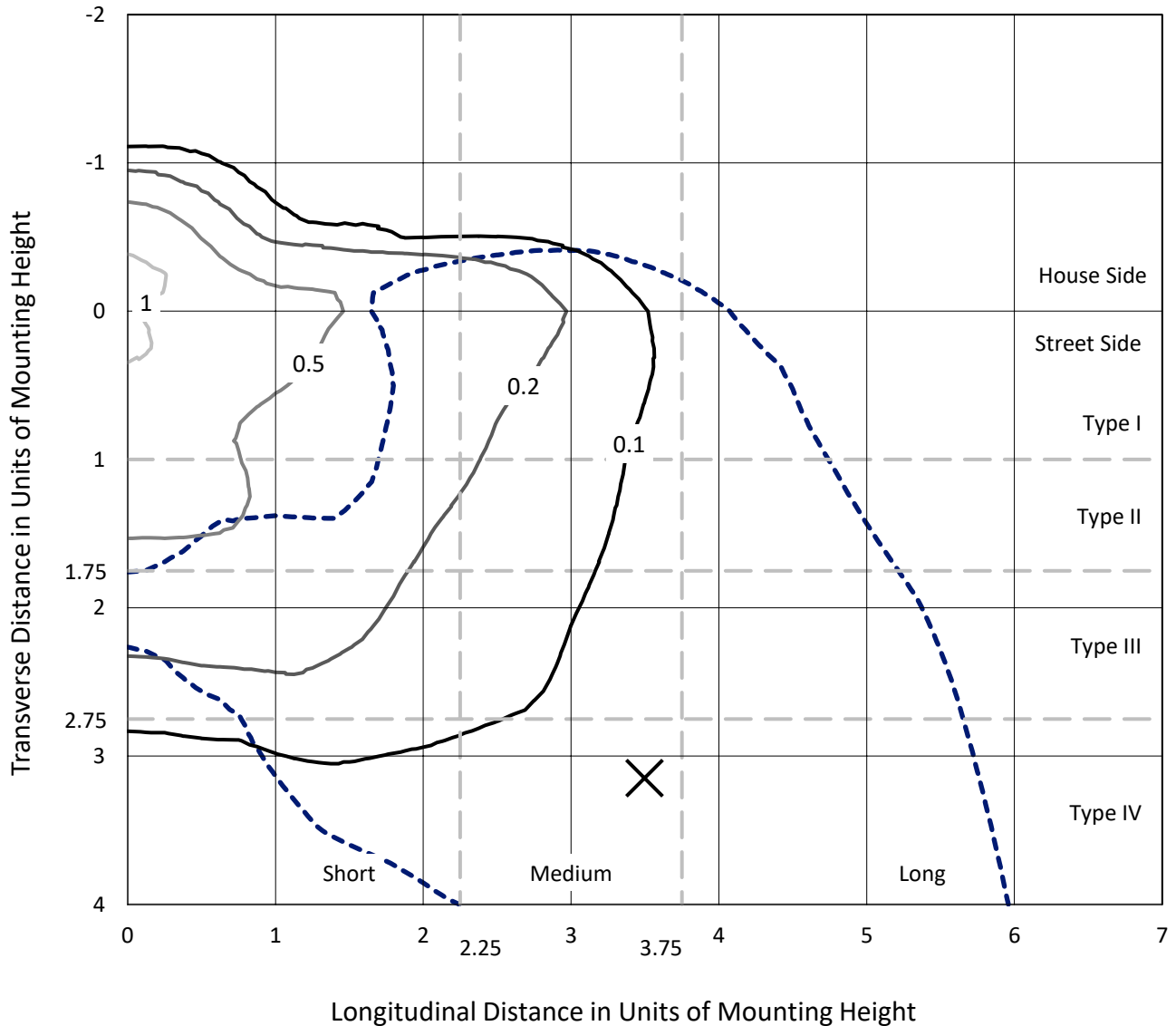
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

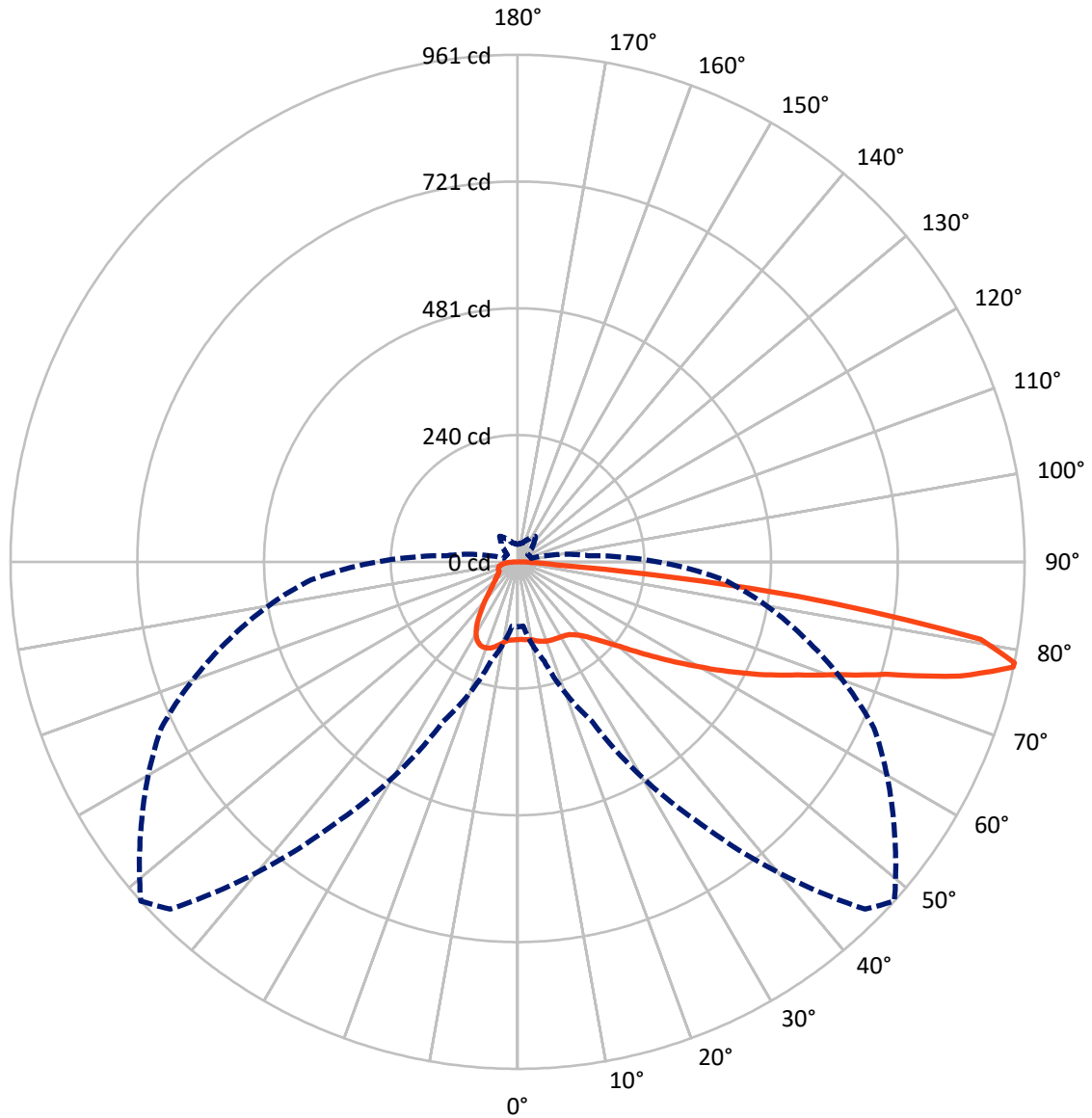
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical

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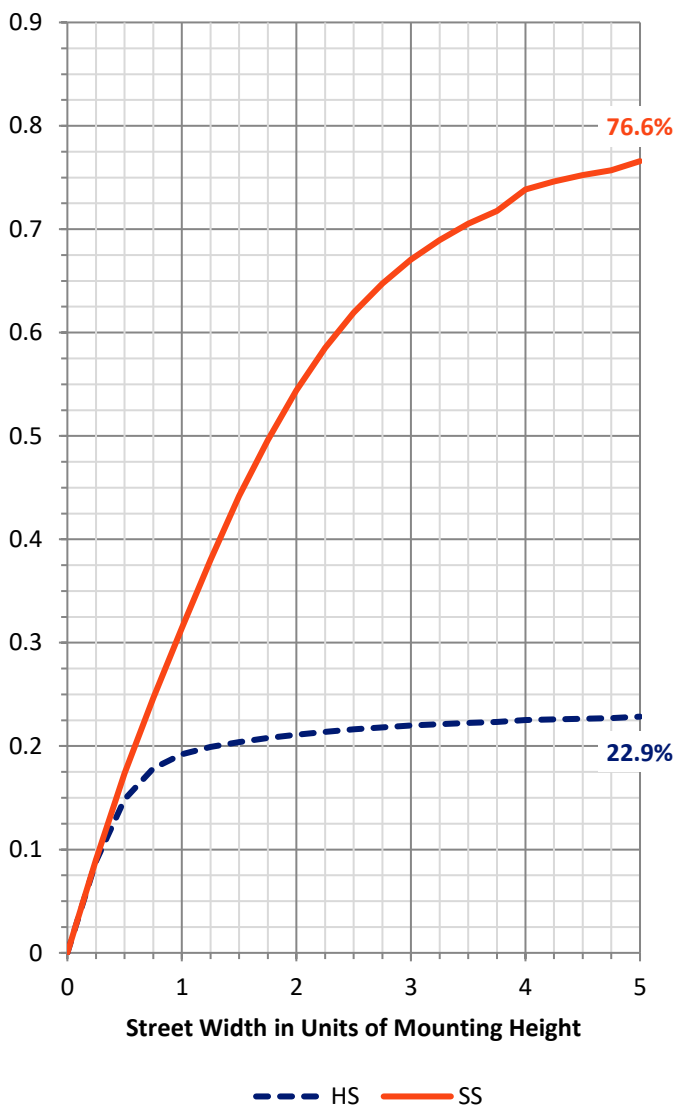
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	314.9	0.0	314.9
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	1033.2	0.0	1033.2
	% Fixture	76.6	0.0	76.6
Total	Lumens	1348.0	0.0	1348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	1.1
10°-20°	45.6	3.4
20°-30°	77.0	5.7
30°-40°	101.1	7.5
40°-50°	133.2	9.9
50°-60°	216.1	16.0
60°-70°	337.7	25.0
70°-80°	356.5	26.4
80°-90°	66.5	4.9
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°	1348.0	100.0
0°-180°	1348.0	100.0

Coefficient of Utilization

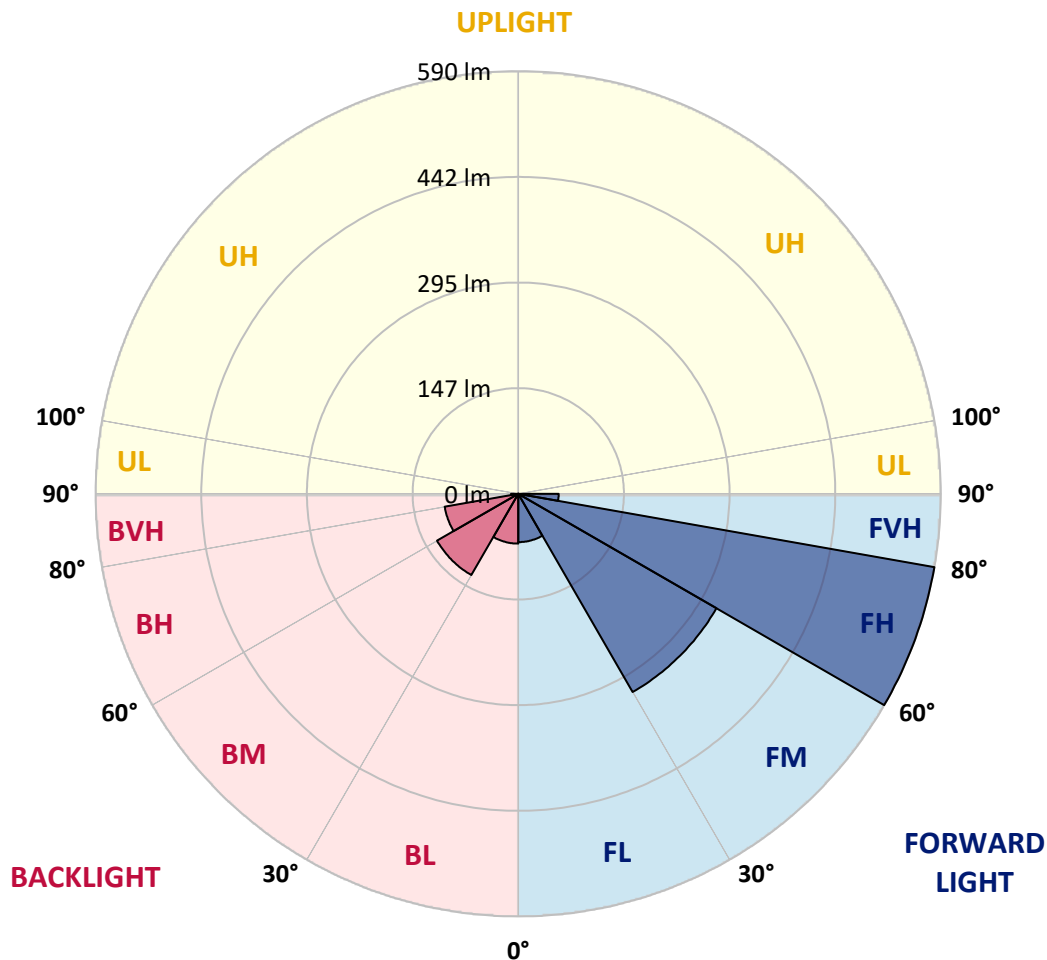


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	67.4	5.0			
FM (30°-60°)	319.5	23.7			
FH (60°-80°)	589.9	43.8			G0/660
FVH (80°-90°)	56.4	4.2			G1/100
BL (0°-30°)	69.5	5.2	B0/110		
BM (30°-60°)	130.9	9.7	B0/220		
BH (60°-80°)	104.3	7.7	B0/110		G0/110
BVH (80°-90°)	10.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3
2.5°	149.3	149.3	149.3	148.3	148.3	148.3	147.3	147.3	147.3	146.3	146.3
5°	154.3	154.3	153.3	152.3	150.3	149.3	148.3	146.3	145.3	144.3	144.3
7.5°	159.3	159.3	158.3	155.3	153.3	150.3	149.3	147.3	144.3	143.3	143.3
10°	164.4	164.4	162.3	159.3	156.3	152.3	150.3	149.3	146.3	144.3	143.3
12.5°	168.4	168.4	167.4	163.4	159.3	155.3	153.3	152.3	149.3	146.3	144.3
15°	171.4	171.4	170.4	165.4	160.3	157.3	156.3	154.3	151.3	148.3	145.3
17.5°	172.4	172.4	172.4	166.4	161.3	160.3	158.3	158.3	154.3	151.3	147.3
20°	171.4	171.4	172.4	166.4	162.3	161.3	160.3	160.3	157.3	153.3	149.3
22.5°	170.4	169.4	171.4	164.4	161.3	162.3	161.3	162.3	161.3	157.3	151.3
25°	167.4	167.4	169.4	162.3	161.3	162.3	162.3	164.4	164.4	160.3	154.3
27.5°	166.4	166.4	168.4	162.3	161.3	163.4	163.4	166.4	167.4	164.4	158.3
30°	167.4	167.4	168.4	162.3	162.3	164.4	164.4	167.4	170.4	168.4	162.3
32.5°	170.4	170.4	171.4	165.4	164.4	166.4	166.4	169.4	173.4	174.4	167.4
35°	176.4	175.4	177.4	170.4	169.4	170.4	169.4	173.4	178.4	180.4	174.4
37.5°	184.4	184.4	187.4	177.4	175.4	175.4	175.4	179.4	184.4	187.4	182.4
40°	201.4	200.4	206.4	189.4	183.4	184.4	183.4	187.4	193.4	196.4	193.4
42.5°	233.5	234.5	239.5	206.4	195.4	196.4	194.4	198.4	205.4	209.5	208.4
45°	274.6	276.6	282.6	234.5	213.5	211.5	210.5	213.5	221.5	227.5	228.5
47.5°	328.7	324.7	314.7	272.6	239.5	230.5	229.5	233.5	242.5	250.5	255.5
50°	376.8	374.8	361.8	324.7	278.6	253.5	252.5	257.6	269.6	280.6	290.6
52.5°	411.9	410.9	412.9	383.8	326.7	285.6	282.6	288.6	304.7	316.7	327.7
55°	426.9	426.9	443.0	442.0	380.8	324.7	319.7	322.7	341.7	354.8	368.8
57.5°	443.0	443.0	466.0	488.1	442.0	370.8	360.8	365.8	386.8	396.9	415.9
60°	472.0	474.0	496.1	534.1	496.1	414.9	407.9	409.9	430.9	445.0	473.0
62.5°	519.1	520.1	548.2	586.3	552.2	464.0	460.0	458.0	479.0	493.1	535.2
65°	509.1	521.1	592.3	638.4	613.3	523.1	516.1	506.1	531.1	544.2	609.3
67.5°	445.0	456.0	571.2	681.5	671.4	584.3	572.2	560.2	582.3	598.3	693.5
70°	393.8	403.9	478.0	693.5	707.5	649.4	640.4	618.3	633.4	647.4	787.7
72.5°	370.8	377.8	433.9	660.4	729.6	737.6	729.6	688.5	692.5	694.5	821.8
75°	319.7	319.7	374.8	566.2	737.6	866.9	865.9	801.7	758.6	696.5	715.5
77.5°	156.3	167.4	224.5	386.8	645.4	935.0	960.1	870.9	762.6	601.3	463.0
78°	123.3	122.3	194.4	333.7	607.3	931.0	961.1	870.9	745.6	565.2	392.8
80°	31.1	32.1	56.1	133.3	414.9	828.8	889.9	776.7	590.3	375.8	188.4
82.5°	15.0	16.0	27.1	49.1	116.3	438.9	534.1	442.0	255.5	113.2	28.1
85°	8.0	8.0	16.0	30.1	66.1	59.1	75.2	92.2	66.1	28.1	10.0
87.5°	3.0	3.0	8.0	13.0	25.1	15.0	15.0	21.0	17.0	11.0	3.0
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°	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3
2.5°	146.3	147.3	147.3	147.3	147.3	148.3	148.3	148.3	149.3	148.3	149.3
5°	144.3	144.3	145.3	146.3	147.3	149.3	150.3	151.3	152.3	153.3	152.3
7.5°	143.3	143.3	144.3	146.3	149.3	150.3	152.3	155.3	157.3	158.3	157.3
10°	143.3	144.3	146.3	149.3	152.3	155.3	158.3	160.3	162.3	163.4	163.4
12.5°	144.3	145.3	148.3	153.3	158.3	161.3	163.4	164.4	166.4	168.4	168.4
15°	146.3	147.3	152.3	158.3	163.4	166.4	168.4	168.4	170.4	172.4	172.4
17.5°	147.3	149.3	156.3	164.4	169.4	171.4	171.4	172.4	172.4	175.4	175.4
20°	149.3	151.3	160.3	169.4	172.4	173.4	173.4	173.4	174.4	177.4	177.4
22.5°	151.3	153.3	164.4	172.4	174.4	174.4	174.4	173.4	174.4	177.4	177.4
25°	154.3	156.3	167.4	173.4	173.4	172.4	172.4	172.4	173.4	176.4	176.4
27.5°	157.3	160.3	170.4	172.4	169.4	167.4	168.4	169.4	170.4	173.4	173.4
30°	161.3	164.4	172.4	168.4	161.3	159.3	160.3	162.3	165.4	167.4	167.4
32.5°	166.4	169.4	173.4	161.3	149.3	146.3	148.3	154.3	157.3	159.3	159.3
35°	173.4	175.4	174.4	152.3	134.3	130.3	133.3	139.3	144.3	147.3	147.3
37.5°	181.4	183.4	174.4	138.3	117.3	113.2	116.3	121.3	126.3	128.3	130.3
40°	193.4	194.4	175.4	125.3	102.2	97.2	98.2	100.2	103.2	105.2	105.2
42.5°	207.4	210.5	175.4	110.2	88.2	81.2	80.2	81.2	80.2	80.2	80.2
45°	229.5	232.5	177.4	97.2	77.2	70.2	68.1	66.1	63.1	61.1	61.1
47.5°	259.6	262.6	179.4	87.2	68.1	61.1	59.1	57.1	53.1	49.1	48.1
50°	297.6	299.6	181.4	79.2	61.1	55.1	54.1	51.1	47.1	43.1	42.1
52.5°	342.7	339.7	183.4	72.2	54.1	52.1	50.1	47.1	42.1	38.1	38.1
55°	383.8	377.8	180.4	64.1	48.1	48.1	47.1	43.1	38.1	36.1	36.1
57.5°	442.0	433.9	175.4	57.1	44.1	45.1	44.1	41.1	38.1	37.1	37.1
60°	515.1	505.1	169.4	51.1	41.1	42.1	43.1	41.1	40.1	39.1	39.1
62.5°	623.3	588.3	144.3	47.1	38.1	40.1	44.1	45.1	43.1	44.1	44.1
65°	740.6	668.4	106.2	43.1	36.1	41.1	48.1	49.1	46.1	47.1	47.1
67.5°	859.9	719.5	66.1	39.1	34.1	41.1	54.1	53.1	47.1	46.1	44.1
70°	925.0	715.5	48.1	36.1	32.1	42.1	59.1	55.1	46.1	44.1	42.1
72.5°	850.8	613.3	40.1	33.1	30.1	41.1	62.1	54.1	44.1	41.1	39.1
75°	627.3	406.9	34.1	30.1	27.1	41.1	62.1	52.1	42.1	38.1	37.1
77.5°	319.7	177.4	28.1	26.1	24.1	39.1	60.1	48.1	38.1	35.1	34.1
78°	265.6	134.3	27.1	25.1	24.1	39.1	59.1	47.1	37.1	34.1	33.1
80°	113.2	53.1	22.0	21.0	21.0	36.1	55.1	43.1	33.1	30.1	28.1
82.5°	33.1	20.0	16.0	16.0	17.0	32.1	49.1	37.1	29.1	24.1	23.0
85°	11.0	9.0	11.0	11.0	12.0	25.1	41.1	30.1	20.0	15.0	14.0
87.5°	4.0	5.0	5.0	5.0	6.0	13.0	23.0	16.0	10.0	6.0	7.0
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)