

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: LUMARK

Report Number: P30126

Luminaire Tested: **LDWP-FC-4A-ED-EM-LED**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P30126
Test Lab: COOPER LIGHTING INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDWP-FC-4A-ED-EM-LED
Description: LUMARK FULL CUTOFF WAL-PAK WITH SOLITE GLASS LENS WITH EMERGENCY INTEGRAL BATTERY OPTION
Light Source: (4) CHIP LED (5000K, 67 CRI)
4-CHIP LED
Ballast/Driver: CLASS 2 PWR SUPPLY

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 840.7 lumens
Efficiency: N/A
Efficacy: 240.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 0.75' x H: 0.1')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

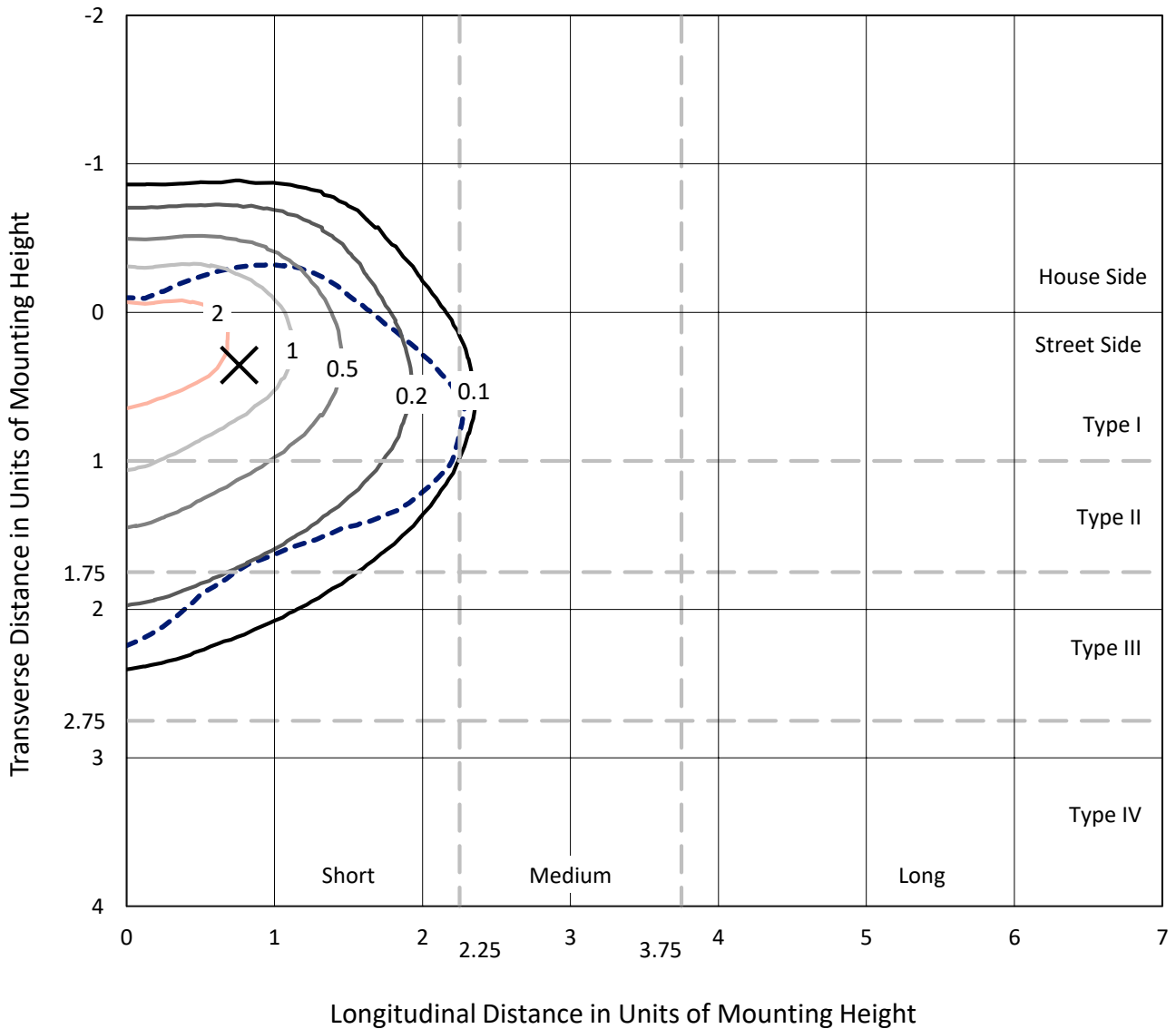
Input Watts (W): 3.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P30126
 CATALOG NUMBER: LDWP-FC-4A-ED-EM-LED

Iso-Footcandle Lines of Horizontal Illumination

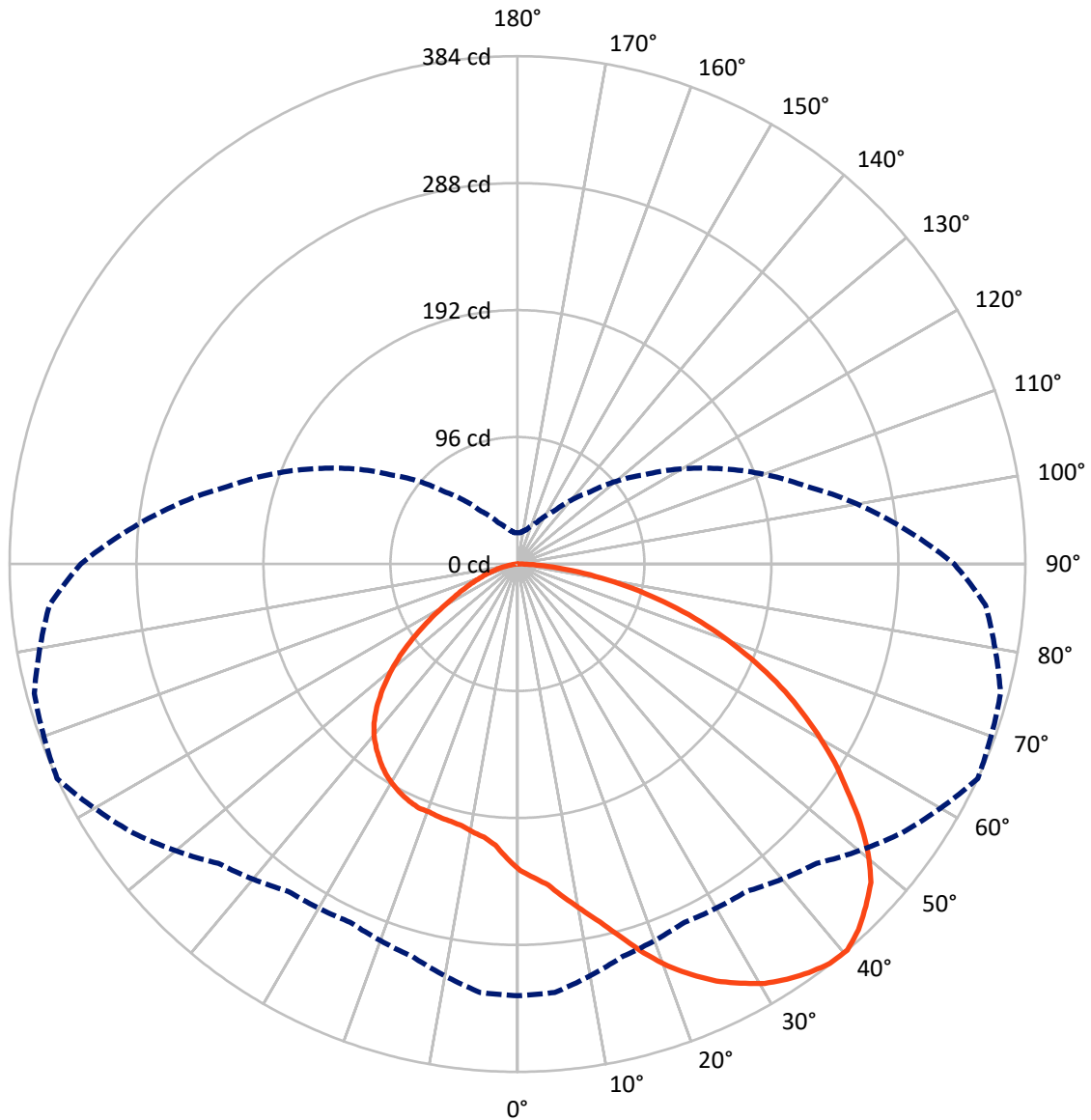
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P30126
CATALOG NUMBER: LDWP-FC-4A-ED-EM-LED

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical

REPORT NUMBER: P30126

CATALOG NUMBER: LDWP-FC-4A-ED-EM-LED

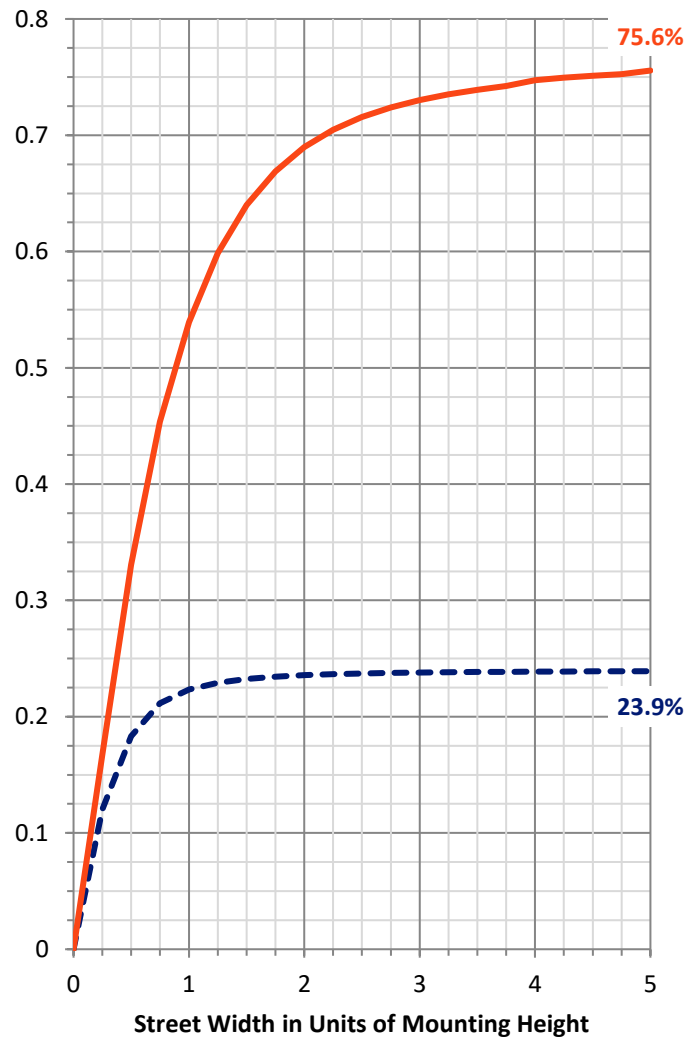
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.6	0.0	202.6
	% Fixture	24.1	0.0	24.1
Street Side	Lumens	638.1	0.0	638.1
	% Fixture	75.9	0.0	75.9
Total	Lumens	840.7	0.0	840.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	2.6
10°-20°	66.7	7.9
20°-30°	113.6	13.5
30°-40°	148.0	17.6
40°-50°	161.5	19.2
50°-60°	146.8	17.5
60°-70°	108.8	12.9
70°-80°	60.0	7.1
80°-90°	13.5	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°	840.7	100.0
0°-180°	840.7	100.0



REPORT NUMBER: P30126

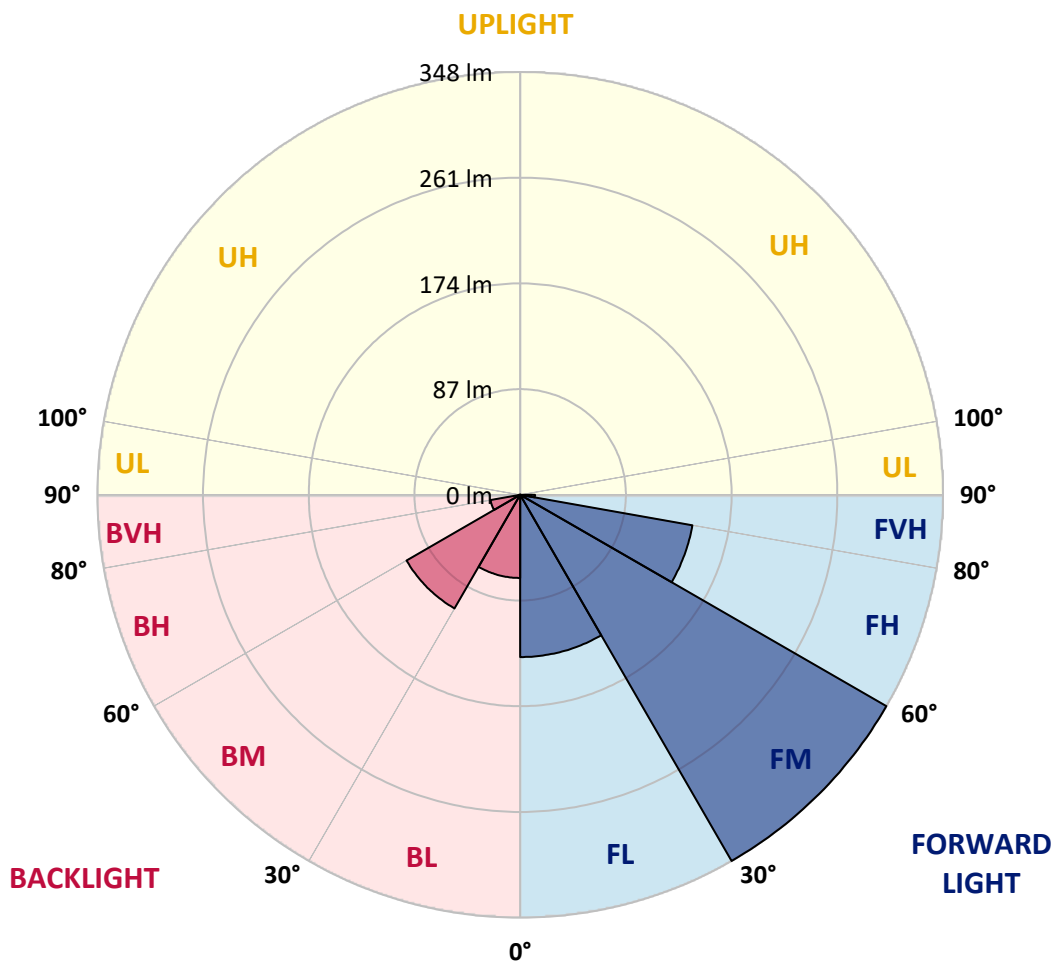
CATALOG NUMBER: LDWP-FC-4A-ED-EM-LED

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.6	15.9			
FM	(30°-60°)	348.2	41.4			
FH	(60°-80°)	144.0	17.1			G0/660
FVH	(80°-90°)	12.2	1.5			G1/100
BL	(0°-30°)	68.5	8.1	B0/110		
BM	(30°-60°)	108.0	12.9	B0/220		
BH	(60°-80°)	24.8	3.0	B0/110		G0/110
BVH	(80°-90°)	1.3	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P30126

CATALOG NUMBER: LDWP-FC-4A-ED-EM-LED

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7
2.5°	247.7	247.0	246.4	244.5	243.8	241.9	240.0	237.4	234.9	231.7	229.8
5°	264.3	263.7	262.4	259.8	256.0	252.2	249.0	243.8	238.1	233.0	229.1
7.5°	277.1	276.5	274.6	271.4	267.5	264.3	260.5	254.7	246.4	237.4	232.3
10°	288.6	287.4	284.8	283.5	281.6	277.8	272.6	265.6	256.0	245.8	238.7
12.5°	297.6	297.6	295.7	297.6	295.7	291.8	285.4	277.8	268.8	256.0	248.3
15°	303.4	304.0	306.6	311.0	311.0	306.6	298.9	292.5	283.5	268.8	259.2
17.5°	307.8	309.8	314.2	321.3	325.1	321.9	316.2	309.1	299.5	283.5	272.0
20°	314.9	316.2	323.2	331.5	336.0	336.0	330.9	324.5	315.5	297.0	284.8
22.5°	321.9	323.2	330.2	340.5	345.0	346.9	344.3	337.3	329.0	310.4	297.6
25°	330.2	329.6	332.2	341.8	351.4	356.5	355.8	349.4	340.5	322.6	306.6
27.5°	334.1	332.8	332.2	336.6	350.7	364.2	366.1	359.0	349.4	331.5	314.9
30°	337.9	335.4	331.5	330.9	343.7	363.5	373.8	368.0	357.8	339.8	321.3
32.5°	337.9	333.4	327.0	325.1	334.7	354.6	376.3	374.4	364.8	346.2	325.8
35°	335.4	332.8	321.3	316.8	324.5	343.7	372.5	379.5	369.9	350.7	329.0
37.5°	332.8	330.2	315.5	309.1	313.6	330.9	364.2	383.4	376.3	354.6	331.5
40°	326.4	325.1	307.2	298.9	302.1	320.0	354.6	384.0	378.2	355.2	330.2
42.5°	321.3	318.1	298.2	288.6	291.2	309.8	341.1	378.2	378.2	353.3	327.7
45°	315.5	310.4	289.3	277.1	280.3	298.9	330.2	369.3	376.3	348.2	320.6
47.5°	305.9	300.2	278.4	265.0	268.2	286.7	316.8	359.7	370.6	337.9	309.8
50°	297.0	289.9	267.5	251.5	256.0	274.6	302.1	343.7	355.8	322.6	291.8
52.5°	287.4	279.0	255.4	240.0	243.8	261.8	287.4	324.5	338.6	298.9	268.2
55°	274.6	265.6	241.9	229.1	231.7	247.7	273.3	302.7	313.6	268.2	238.7
57.5°	258.6	250.2	227.2	217.0	219.5	233.0	257.9	282.9	285.4	234.9	204.8
60°	241.3	233.0	211.2	202.2	206.7	218.9	240.6	260.5	257.9	206.7	176.0
62.5°	221.4	212.5	193.3	186.2	190.7	201.6	222.7	238.1	233.0	184.3	154.2
65°	199.0	191.4	173.4	169.6	172.8	182.4	202.2	215.0	209.3	165.1	135.0
67.5°	175.4	168.3	153.0	149.8	154.2	163.8	179.2	190.1	186.2	145.3	117.8
70°	151.0	145.3	131.8	130.6	135.7	143.4	155.5	165.1	162.6	125.4	100.5
72.5°	126.7	121.0	110.7	110.7	115.8	122.9	132.5	140.2	137.0	104.3	83.2
75°	101.8	97.3	89.6	90.9	96.0	101.8	108.8	114.6	110.1	83.2	66.6
77.5°	78.1	74.9	69.1	71.0	75.5	80.0	85.8	89.0	83.8	62.7	49.9
80°	56.3	53.1	49.3	51.8	55.0	59.5	62.7	64.6	60.2	44.2	35.2
82.5°	35.8	33.3	31.4	33.3	35.8	39.0	41.6	42.2	38.4	28.2	21.8
85°	19.2	17.3	16.0	17.9	19.8	21.8	23.0	23.0	20.5	14.7	10.9
87.5°	6.4	5.1	5.1	6.4	7.0	8.3	9.0	9.0	7.7	5.1	3.2
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: P30126

CATALOG NUMBER: LDWP-FC-4A-ED-EM-LED

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7
2.5°	228.5	224.6	222.7	220.8	218.9	217.6	217.0	216.3	215.7	216.3
5°	225.9	218.9	213.1	208.0	202.2	199.0	197.1	195.8	195.2	195.8
7.5°	227.8	217.6	208.0	198.4	188.8	181.8	176.6	175.4	174.7	175.4
10°	232.3	218.9	205.4	190.7	176.6	166.4	159.4	156.8	156.8	156.2
12.5°	240.6	221.4	202.2	184.3	166.4	153.0	143.4	140.2	139.5	139.5
15°	249.6	225.3	201.0	178.6	158.1	140.8	129.9	124.8	124.8	124.8
17.5°	259.2	229.8	200.3	173.4	149.8	131.2	117.8	111.4	110.7	111.4
20°	269.4	234.2	199.0	169.0	142.1	121.6	107.5	99.2	98.6	98.6
22.5°	278.4	238.1	199.0	165.1	135.7	113.3	97.9	88.3	87.0	87.0
25°	286.7	240.0	197.1	159.4	128.6	105.0	88.3	78.1	75.5	75.5
27.5°	291.2	240.0	194.6	154.9	122.2	96.6	78.7	67.8	64.0	64.0
30°	295.0	239.4	191.4	149.8	115.2	87.7	69.1	57.6	53.1	53.1
32.5°	297.6	237.4	187.5	144.0	107.5	78.1	58.2	47.4	43.5	43.5
35°	298.9	233.6	182.4	136.3	97.9	67.8	49.3	39.0	35.8	35.2
37.5°	298.2	231.0	176.6	128.0	87.0	58.2	41.0	32.0	29.4	28.8
40°	295.0	226.6	170.2	117.8	76.8	49.3	34.6	26.9	23.7	23.7
42.5°	290.6	220.8	161.9	106.9	66.6	41.6	28.2	21.8	19.8	19.8
45°	283.5	211.8	151.7	96.6	57.6	35.2	23.7	18.6	17.3	16.6
47.5°	272.0	201.6	139.5	85.1	49.9	29.4	19.8	16.0	14.7	14.7
50°	253.4	186.9	126.7	74.2	42.2	25.0	17.3	14.7	13.4	13.4
52.5°	230.4	167.7	112.6	64.6	35.8	21.1	15.4	12.8	12.2	11.5
55°	202.9	145.9	97.3	55.7	30.7	17.9	14.1	12.2	10.9	10.9
57.5°	170.9	123.5	81.9	47.4	25.6	16.0	12.2	10.9	9.6	9.6
60°	144.0	101.8	67.8	39.7	21.1	14.1	10.9	9.6	9.0	9.0
62.5°	123.5	83.8	55.7	32.6	17.9	12.2	10.2	9.0	7.7	7.7
65°	106.2	69.8	46.1	26.9	15.4	10.9	9.0	7.7	7.0	7.0
67.5°	90.2	57.0	37.8	21.8	12.8	9.0	7.7	6.4	5.8	5.8
70°	75.5	46.7	30.1	17.3	10.2	7.7	5.8	5.1	4.5	4.5
72.5°	62.1	37.1	24.3	13.4	8.3	5.8	4.5	4.5	3.8	3.8
75°	49.3	28.8	18.6	10.2	6.4	4.5	3.8	3.2	3.2	2.6
77.5°	36.5	21.1	13.4	7.0	4.5	3.2	2.6	2.6	1.9	1.9
80°	25.6	14.1	8.3	4.5	2.6	1.9	1.3	1.3	1.3	1.3
82.5°	15.4	8.3	4.5	1.9	1.3	0.6	0.6	0.6	0.6	0.6
85°	7.0	3.2	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	0.6	0.6	0.0	0.0	0.0	0.0	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

(END OF REPORT)