

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: LUMIERE

Report Number: P394762

Luminaire Tested: **303-B2-LEDB4-TSAM-UNV-T2-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (Compare Roadway Adding Tool)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B2-LEDB4-TSAM-UNV-T2-DIM10
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 2
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 749.3 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 1.06' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

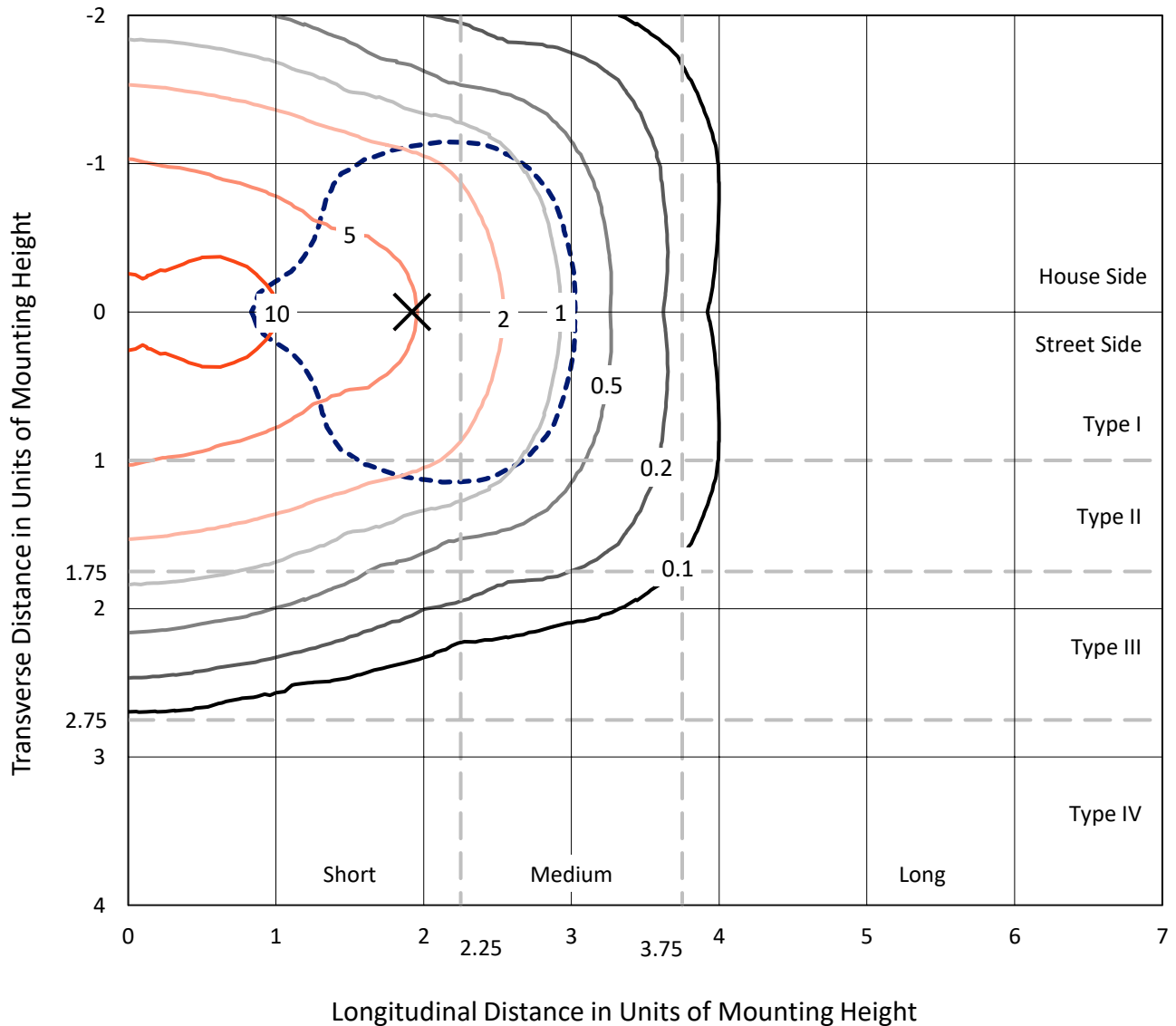
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

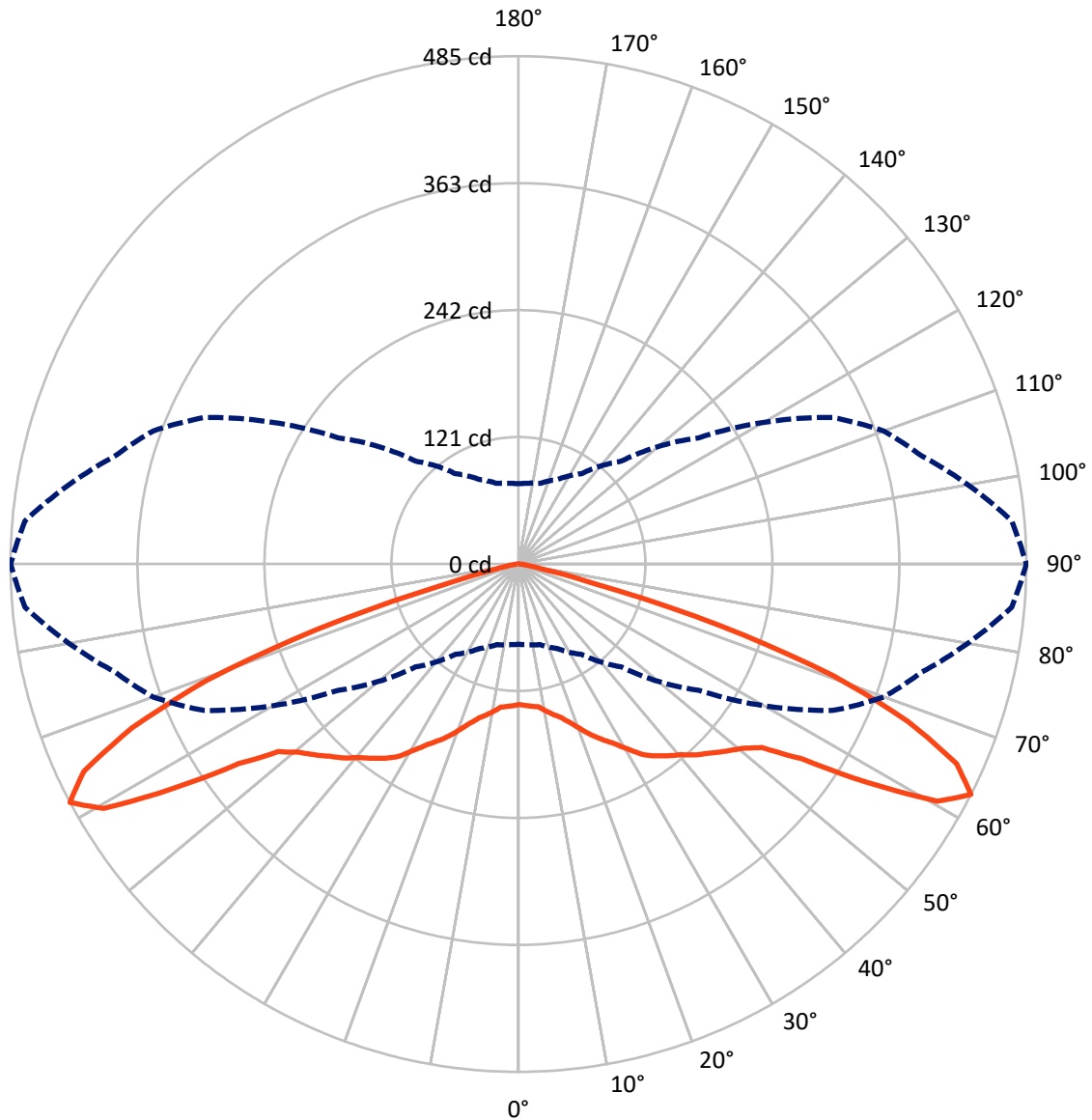
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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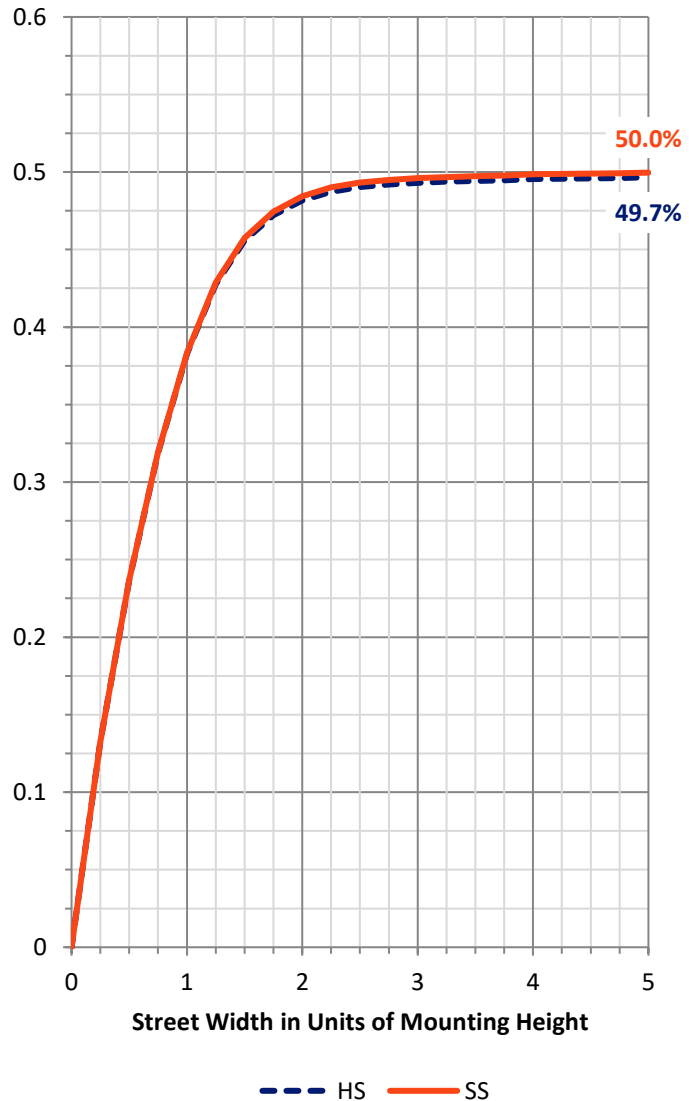
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	374.7	0.0	374.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	374.7	0.0	374.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	749.3	0.0	749.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	1.5
10°-20°	33.5	4.5
20°-30°	60.1	8.0
30°-40°	94.9	12.7
40°-50°	133.7	17.8
50°-60°	175.1	23.4
60°-70°	181.3	24.2
70°-80°	54.5	7.3
80°-90°	4.9	0.7
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°	749.3	100.0
0°-180°	749.3	100.0



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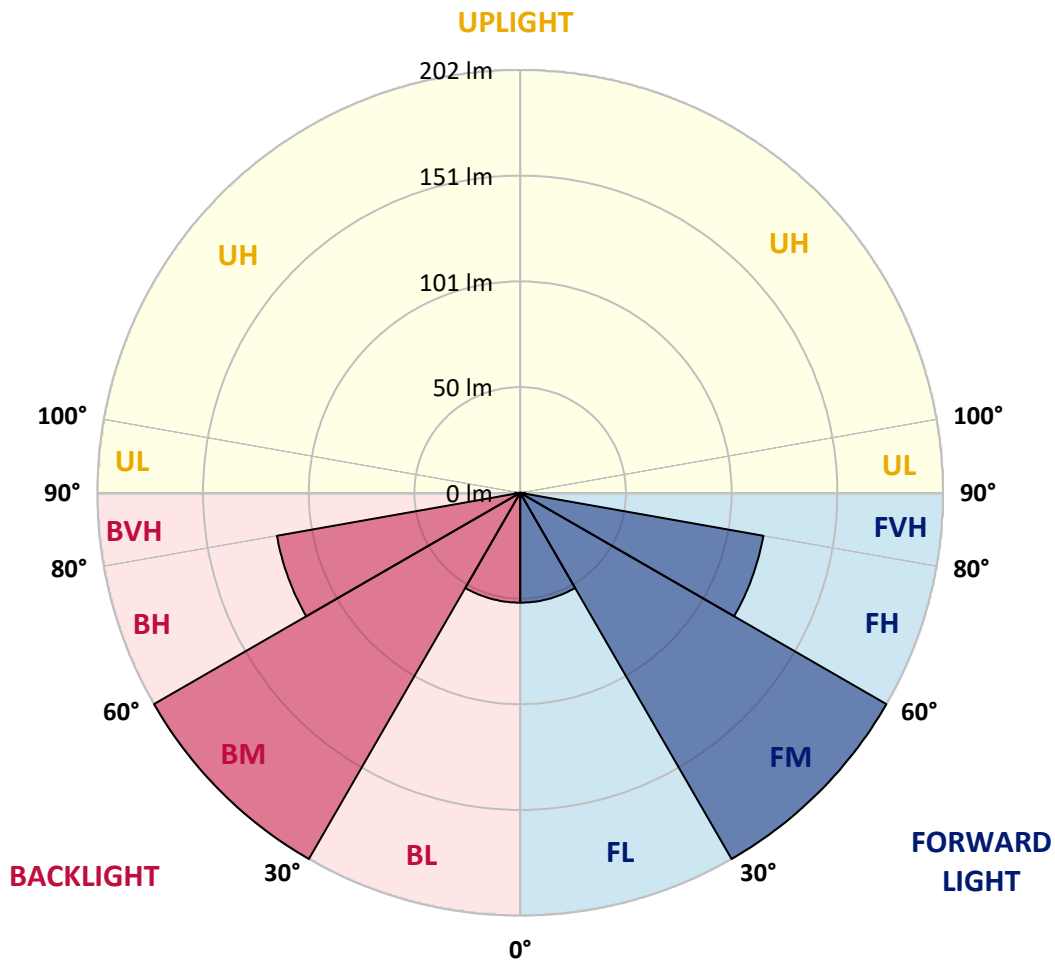
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.4	7.0			
FM (30°-60°)	201.9	26.9			
FH (60°-80°)	117.9	15.7			G0/660
FVH (80°-90°)	2.4	0.3			G0/10
BL (0°-30°)	52.4	7.0	B0/110		
BM (30°-60°)	201.9	26.9	B0/220		
BH (60°-80°)	117.9	15.7	B1/500		G1/500
BVH (80°-90°)	2.4	0.3			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0
2.5°	129.2	124.4	125.0	125.6	127.1	128.6	127.1	125.6	125.6	125.6	128.6
5°	108.9	107.7	108.3	108.9	109.8	110.7	110.7	110.7	113.1	115.5	119.3
7.5°	93.9	94.5	94.8	95.1	96.9	98.7	101.4	104.1	108.9	113.7	117.5
10°	98.1	96.3	96.3	96.3	95.7	95.1	94.5	93.9	98.4	102.9	110.1
12.5°	99.3	96.9	98.4	99.9	100.5	101.1	101.7	102.3	103.2	104.1	109.8
15°	99.3	95.7	96.0	96.3	98.1	99.9	100.8	101.7	106.2	110.7	114.3
17.5°	98.7	93.9	94.5	95.1	96.3	97.5	97.8	98.1	106.2	114.3	119.9
20°	98.7	98.1	97.8	97.5	97.2	96.9	97.2	97.5	104.4	111.3	120.5
22.5°	101.7	98.7	99.0	99.3	99.6	99.9	99.0	98.1	105.0	111.9	119.9
25°	99.3	98.7	98.7	98.7	99.9	101.1	102.3	103.5	109.2	114.9	121.7
27.5°	101.1	100.5	100.5	100.5	101.1	101.7	103.2	104.7	112.5	120.2	129.5
30°	102.9	101.7	102.3	102.9	103.8	104.7	106.2	107.7	115.2	122.6	133.4
32.5°	110.7	104.7	105.0	105.3	106.5	107.7	109.5	111.3	119.3	127.4	139.7
35°	112.5	108.9	109.5	110.1	111.6	113.1	114.9	116.7	124.7	132.8	145.7
37.5°	114.3	114.3	114.3	114.3	117.0	119.6	120.8	122.0	130.4	138.8	150.5
40°	119.6	119.6	119.9	120.2	122.3	124.4	126.2	128.0	136.1	144.2	155.2
42.5°	126.2	125.6	126.8	128.0	128.9	129.8	132.5	135.2	140.0	144.8	158.2
45°	133.4	129.8	129.8	129.8	133.4	137.0	139.4	141.8	149.6	157.3	168.1
47.5°	131.6	131.6	131.3	131.0	134.9	138.8	142.4	146.0	155.2	164.5	173.8
50°	132.2	131.6	132.8	134.0	136.7	139.4	144.8	150.2	159.4	168.7	181.3
52.5°	129.2	131.6	131.0	130.4	135.2	140.0	145.1	150.2	160.9	171.7	185.1
55°	117.8	117.8	120.2	122.6	128.6	134.6	142.7	150.7	161.5	172.3	189.0
57.5°	107.7	105.9	106.8	107.7	113.1	118.4	130.1	141.8	156.7	171.7	193.5
60°	89.7	86.7	89.7	92.7	98.7	104.7	116.4	128.0	146.0	163.9	191.4
62.5°	76.6	77.2	78.4	79.6	84.3	89.1	97.2	105.3	122.0	138.8	174.4
65°	62.8	61.6	62.2	62.8	67.6	72.4	79.0	85.5	96.6	107.7	146.0
67.5°	36.5	35.9	36.8	37.7	41.9	46.1	54.1	62.2	70.6	79.0	108.9
70°	18.5	19.1	19.4	19.7	21.2	22.7	28.4	34.1	44.0	53.8	73.3
72.5°	14.4	13.8	14.1	14.4	14.7	15.0	16.7	18.5	25.1	31.7	47.3
75°	10.2	10.2	10.5	10.8	10.8	10.8	11.1	11.4	13.5	15.6	30.8
77.5°	8.4	8.4	8.1	7.8	7.8	7.8	7.8	7.8	8.7	9.6	18.8
80°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.9	7.2	10.2
82.5°	5.4	5.4	5.4	5.4	5.1	4.8	4.8	4.8	4.8	4.8	5.4
85°	4.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.9	3.6	3.6
87.5°	4.2	4.2	4.2	4.2	3.9	3.6	3.6	3.6	3.3	3.0	2.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0
2.5°	131.6	134.6	137.6	135.6	134.6	134.0	133.4	135.2
5°	123.2	127.1	131.0	134.1	137.6	136.7	135.8	136.4
7.5°	121.4	124.4	127.4	132.8	137.0	137.9	138.8	137.6
10°	117.2	124.4	131.6	136.1	140.6	141.5	142.4	142.4
12.5°	115.5	124.7	134.0	140.1	145.4	146.9	148.4	147.2
15°	117.8	124.4	131.0	142.4	150.7	152.5	154.3	151.9
17.5°	125.6	128.9	132.2	146.3	157.3	159.4	161.5	159.1
20°	129.8	134.3	138.8	150.2	163.9	166.6	169.3	167.5
22.5°	128.0	138.2	148.4	152.7	160.3	169.6	178.9	177.1
25°	128.6	142.4	156.1	161.1	166.3	176.8	187.2	185.4
27.5°	138.8	149.3	159.7	169.7	177.7	186.9	196.2	193.8
30°	144.2	156.7	169.3	181.0	189.0	197.7	206.4	204.6
32.5°	151.9	162.7	173.5	189.9	202.8	209.1	215.4	216.6
35°	158.5	170.2	181.9	199.4	213.0	218.9	224.9	224.9
37.5°	162.1	174.1	186.0	201.9	216.6	223.1	229.7	232.1
40°	166.3	177.7	189.0	205.8	221.9	231.2	240.5	239.3
42.5°	171.7	183.4	195.0	210.3	224.3	236.6	248.9	248.9
45°	178.9	188.4	198.0	214.0	229.7	243.2	256.6	257.2
47.5°	183.1	192.9	202.8	217.6	232.7	248.3	263.8	266.8
50°	193.8	203.1	212.4	225.7	240.5	254.8	269.2	276.4
52.5°	198.6	210.6	222.5	236.9	253.0	267.4	281.8	290.7
55°	205.8	220.4	235.1	253.5	271.0	293.1	315.3	327.8
57.5°	215.4	240.8	266.2	288.0	308.7	344.9	381.1	393.6
60°	218.9	264.7	310.5	344.3	368.5	411.3	454.0	459.4
62.5°	210.0	270.4	330.8	371.0	398.4	435.5	472.6	484.6
65°	184.2	255.1	326.0	368.6	392.4	418.1	443.9	459.4
67.5°	138.8	214.8	290.7	330.2	352.3	372.4	392.4	400.8
70°	92.7	159.4	226.1	265.6	292.5	300.9	309.3	318.2
72.5°	62.8	108.9	154.9	182.9	200.4	204.3	208.2	202.2
75°	46.1	69.4	92.7	101.1	102.3	93.6	84.9	73.0
77.5°	28.1	35.6	43.1	42.8	42.5	33.8	25.1	23.9
80°	13.2	15.9	18.5	16.9	17.9	14.7	11.4	10.8
82.5°	6.0	7.2	8.4	8.8	10.8	8.7	6.6	6.0
85°	3.6	3.6	3.6	3.6	3.6	3.0	2.4	2.4
87.5°	2.4	2.1	1.8	1.6	1.2	0.9	0.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)