

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: INVUE

Report Number: H21324

Luminaire Tested: **ENC-QAB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21324
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-QAB
Description: ARCHITECTURAL WALL LUMINAIRE - QUARTZ RESTRIKE ADAPTER BOX
Light Source: 100 WATT QUARTZ CLEAR T4
Ballast/Driver: -

Summary

Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1194.2 lumens
Efficiency: 62.9%
Efficacy: 11.9 lumens/watt
Luminous Opening: Rectangular (W 0.25' x L: 0.1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

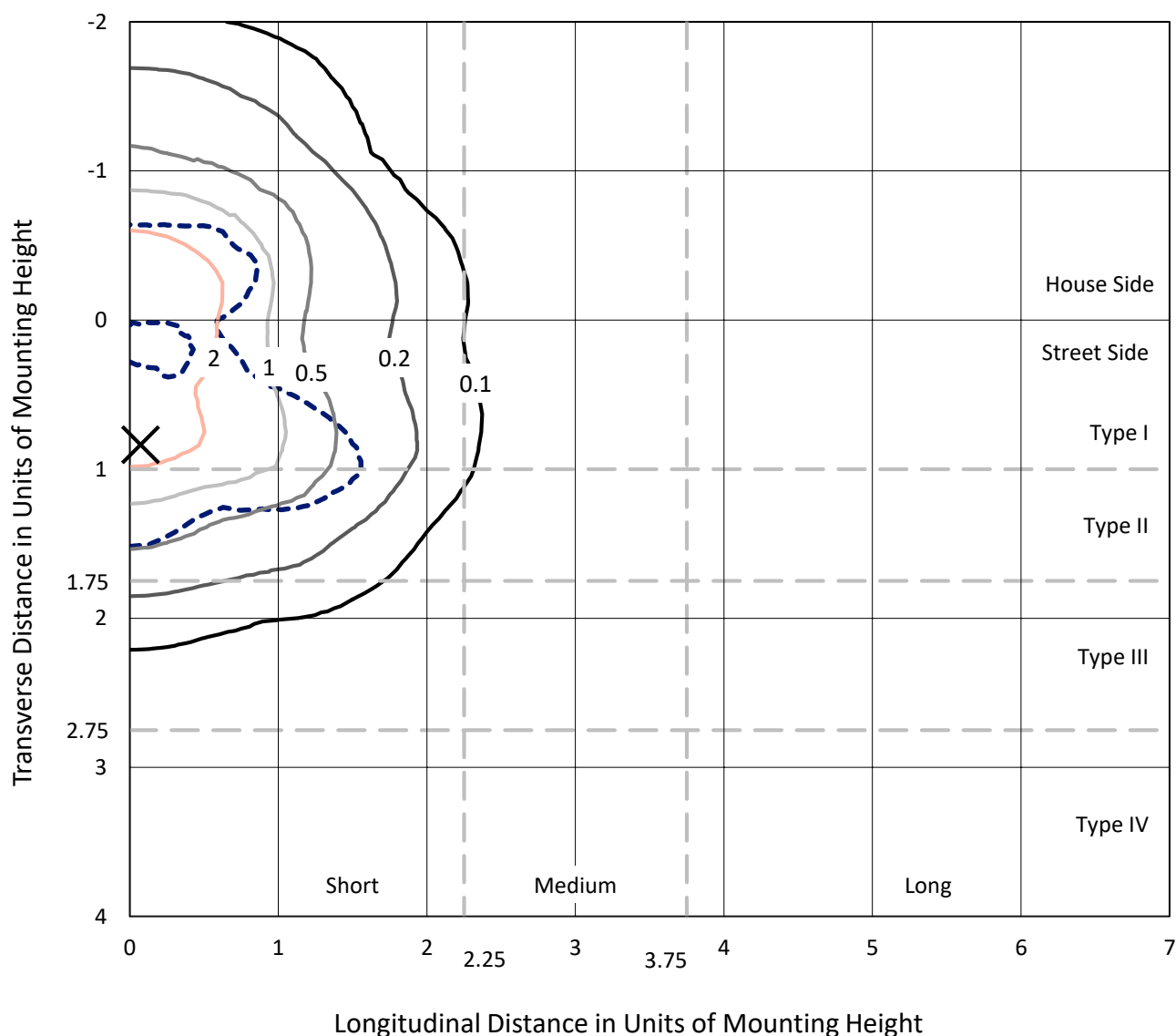
Input Watts (W): 100
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

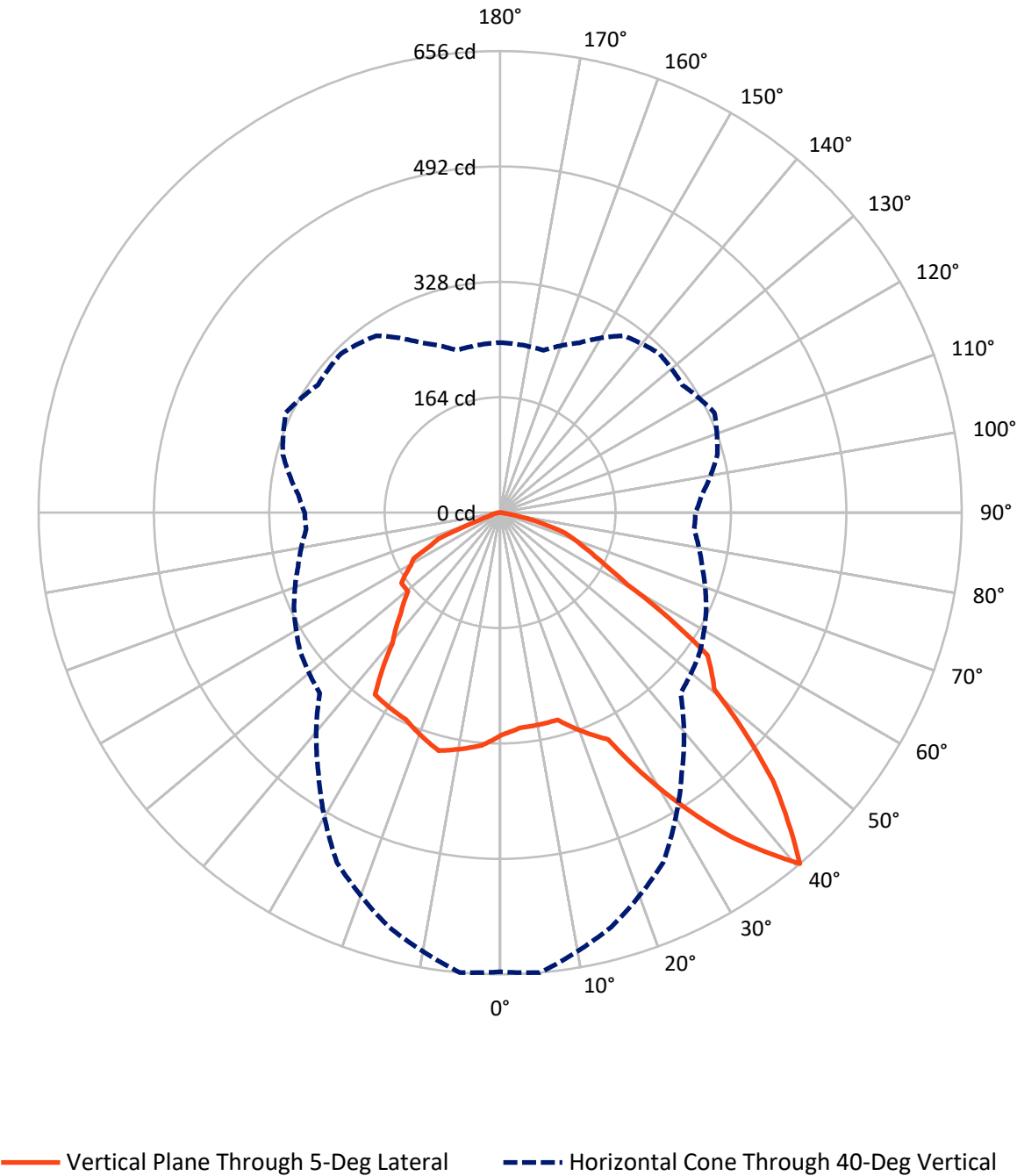


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - Full Cutoff



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Luminous Intensity Polar Plot



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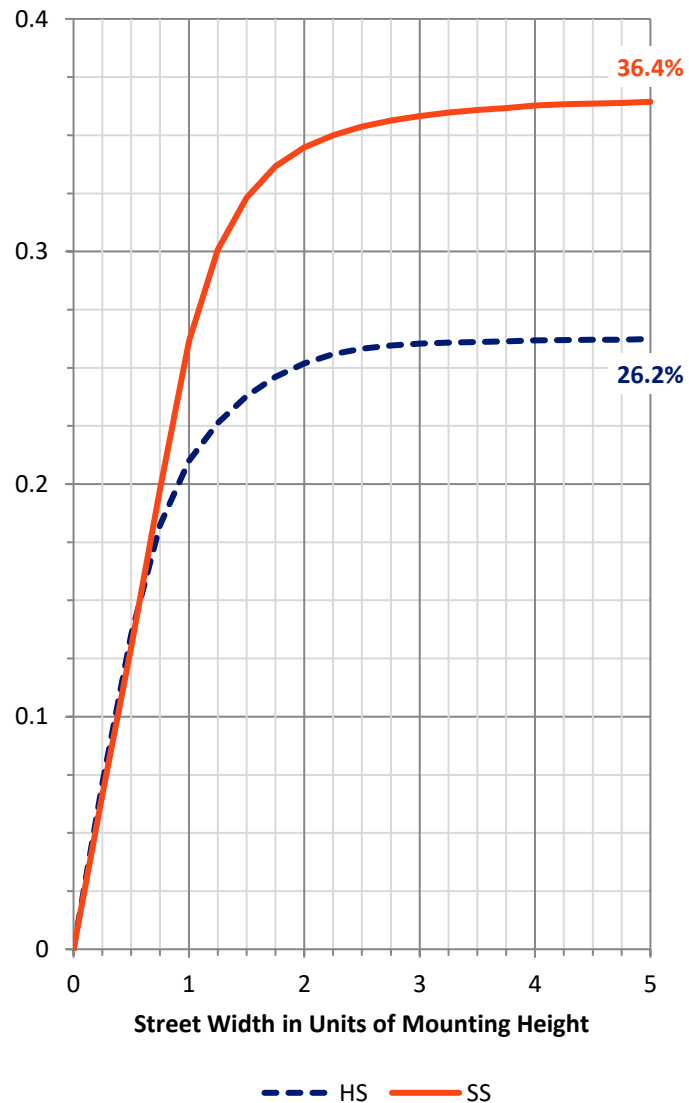
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	501.4	0.0	501.4
	% Lamp	26.4	0.0	26.4
Street Side	Lumens	692.8	0.0	692.8
	% Lamp	36.5	0.0	36.5
Total	Lumens	1194.2	0.0	1194.2
	% Lamp	62.9	0.0	62.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.1	2.5	1.6
10°-20°	90.7	7.6	4.8
20°-30°	155.0	13.0	8.2
30°-40°	222.1	18.6	11.7
40°-50°	254.3	21.3	13.4
50°-60°	222.3	18.6	11.7
60°-70°	155.1	13.0	8.2
70°-80°	55.8	4.7	2.9
80°-90°	7.6	0.6	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	1194.2	100.0	62.9
0°-180°	1194.2	100.0	62.9

Coefficient of Utilization



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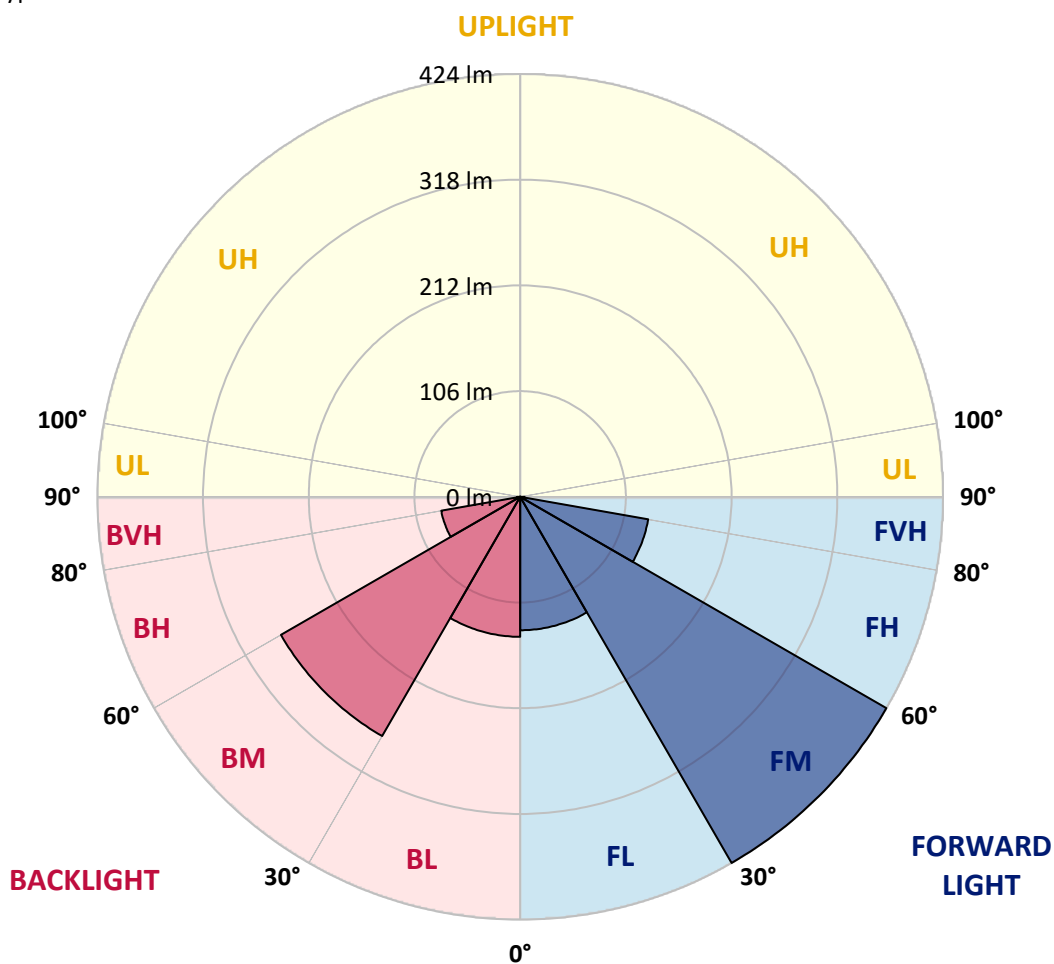
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.9	7.0			
FM	(30°-60°)	424.4	22.3			
FH	(60°-80°)	130.5	6.9			G0/660
FVH	(80°-90°)	4.4	0.2			G0/10
BL	(0°-30°)	140.5	7.4	B1/500		
BM	(30°-60°)	277.2	14.6	B1/1000		
BH	(60°-80°)	80.4	4.2	B0/110		G0/110
BVH	(80°-90°)	3.2	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		705.8	37.1			

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5
5°	307.3	306.9	305.8	304.8	303.5	302.1	301.7	304.0	307.2	309.9	315.3
15°	305.6	305.5	302.4	300.2	295.1	292.3	294.8	299.1	300.8	308.4	315.4
25°	358.9	357.1	341.7	321.6	310.3	306.7	310.2	317.2	318.3	317.5	323.3
35°	563.4	566.0	531.5	464.1	380.8	339.7	332.0	335.2	314.8	305.2	304.8
40°	652.6	656.0	609.8	548.5	450.4	362.6	346.4	323.1	297.3	276.7	277.7
45°	540.9	543.8	532.6	534.2	528.7	422.9	365.3	314.2	257.2	227.4	230.0
50°	399.7	394.6	384.6	421.4	524.6	536.3	428.2	321.1	195.7	161.8	168.4
55°	362.7	358.0	313.7	286.7	367.5	491.8	430.6	304.1	195.4	173.6	183.5
60°	210.1	208.3	209.4	226.9	236.0	318.1	350.2	287.0	207.1	163.6	169.1
62.5°	172.5	172.3	166.2	186.8	231.1	246.5	300.9	287.0	202.9	156.0	162.2
65°	147.4	147.5	143.2	148.1	213.1	217.4	242.4	259.5	195.6	148.9	152.9
67.5°	127.6	126.6	118.3	128.6	161.6	194.2	193.1	219.3	187.9	146.1	147.3
70°	112.3	110.6	106.2	102.0	117.5	131.5	127.4	166.0	178.1	128.7	129.7
72.5°	93.9	93.4	86.2	84.8	92.4	91.7	82.8	114.2	143.0	79.5	97.2
75°	59.8	60.9	58.6	63.8	73.4	63.5	58.2	73.2	92.6	38.6	39.2
77.5°	39.0	37.7	35.8	38.1	46.8	37.4	35.4	41.3	58.3	30.7	28.1
80°	13.6	13.9	15.6	19.2	23.8	18.6	24.3	31.9	37.4	30.1	25.9
82.5°	5.2	5.2	5.2	5.5	7.4	6.8	10.6	20.4	18.4	27.8	21.4
85°	4.0	4.0	3.9	3.8	3.7	3.7	4.4	7.2	9.6	15.0	11.6
87.5°	2.9	3.0	2.8	2.6	2.4	2.2	1.9	2.0	2.1	2.4	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5
5°	316.3	314.8	317.9	322.0	325.7	327.9	329.7	330.7	331.7	331.8
15°	319.8	328.7	333.4	334.7	335.6	339.1	341.6	345.2	349.3	349.4
25°	328.7	338.2	343.7	350.0	348.2	339.9	331.2	324.5	323.0	323.3
35°	314.5	341.5	355.5	348.2	329.1	324.7	317.0	313.7	313.9	313.5
40°	287.7	319.7	336.1	316.3	319.8	306.9	266.3	238.8	240.7	241.6
45°	246.3	289.5	303.8	285.0	284.6	226.9	229.3	218.1	201.8	201.0
50°	176.8	214.3	249.0	262.2	209.6	203.0	165.7	161.6	172.2	175.7
55°	191.2	193.9	194.1	190.6	172.6	149.7	177.5	178.1	172.1	171.9
60°	180.2	178.7	173.5	150.2	137.4	154.3	142.7	149.6	147.1	147.4
62.5°	171.2	163.5	135.5	110.6	138.9	136.3	143.3	141.0	139.5	139.3
65°	163.6	151.1	108.5	100.2	119.2	135.3	130.7	120.0	110.2	107.5
67.5°	150.6	138.4	84.8	90.4	108.6	126.8	98.9	96.6	95.6	92.6
70°	131.4	119.1	56.2	55.6	84.5	83.7	80.2	51.0	38.7	37.3
72.5°	87.3	78.5	49.7	44.2	49.3	47.6	28.2	22.8	18.6	17.9
75°	42.6	43.8	43.8	42.8	24.7	17.9	15.4	13.0	12.4	12.2
77.5°	33.2	31.3	47.7	29.7	13.3	10.8	12.2	14.0	13.6	13.3
80°	30.7	32.1	29.3	11.1	9.3	9.0	11.2	10.0	9.1	8.8
82.5°	15.3	16.7	8.3	7.5	6.8	5.8	5.5	5.0	4.6	4.5
85°	10.2	5.1	4.6	4.4	3.8	3.5	3.5	3.3	3.1	3.0
87.5°	2.8	2.4	2.3	2.1	2.2	2.2	2.1	2.0	1.9	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)