

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: P180123

Luminaire Tested: **ICS-F01-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180123
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F01-LED-E1-5WQ
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2365.6 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 25.9
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

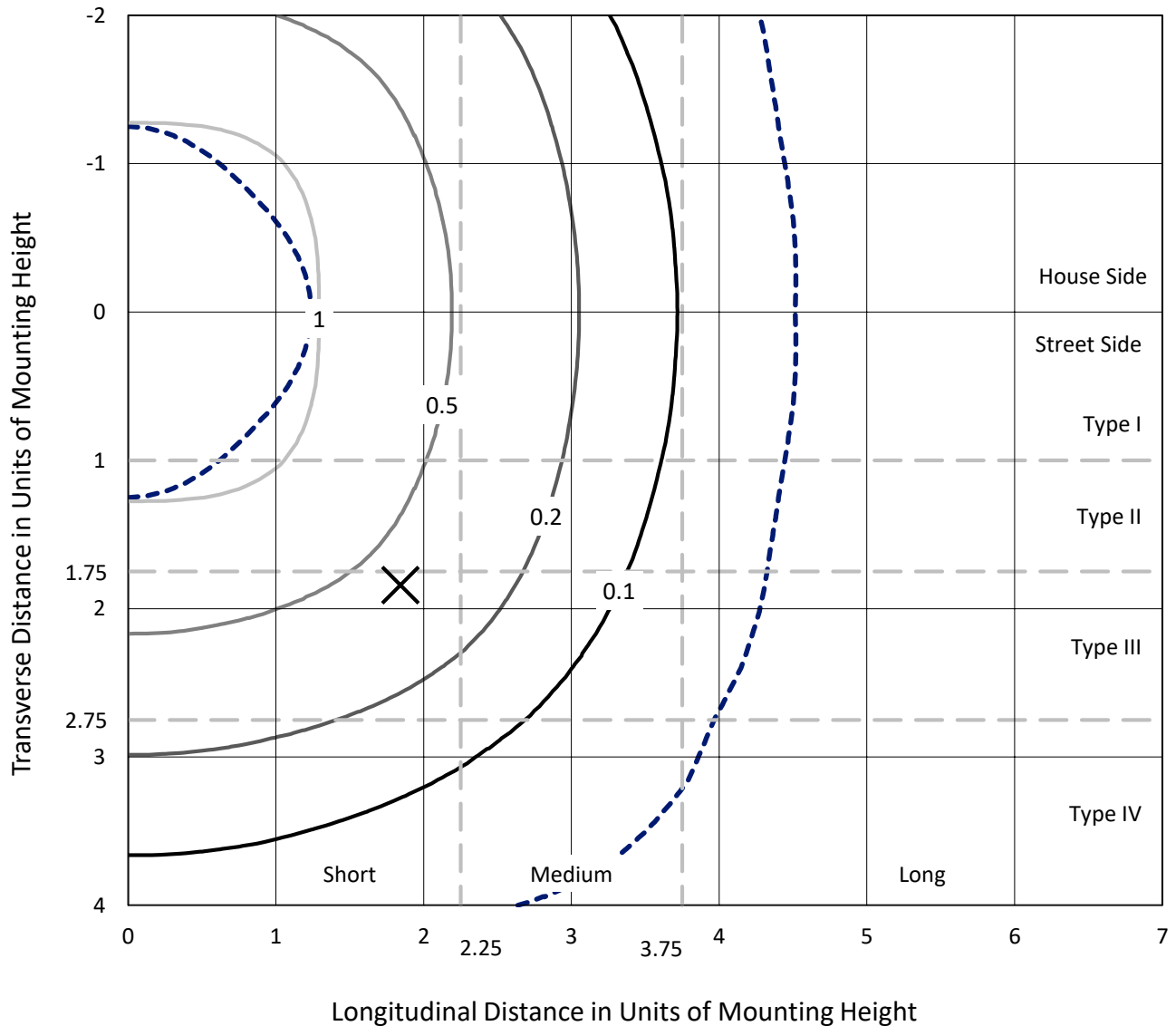


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Iso-Footcandle Lines of Horizontal Illumination

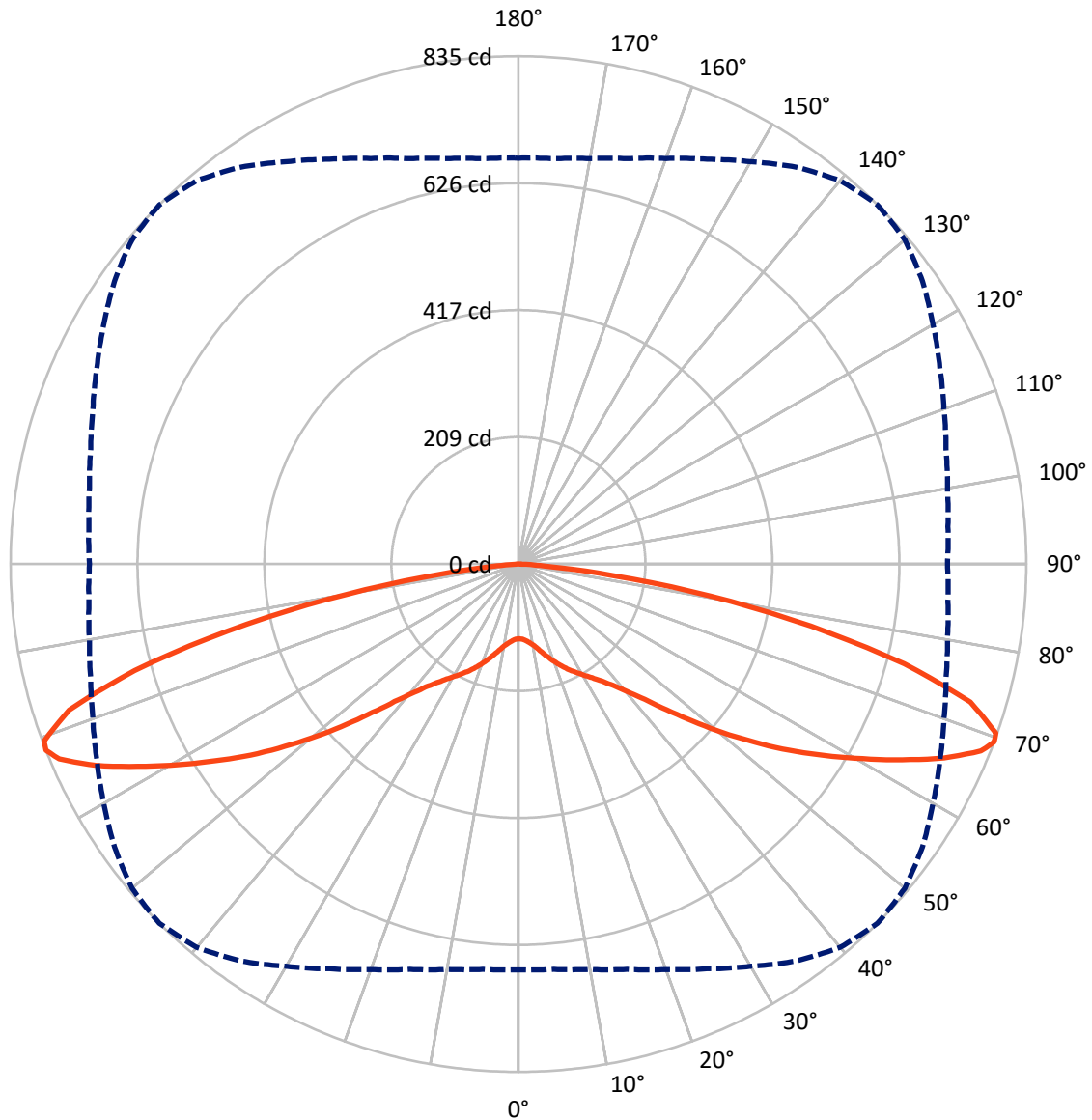
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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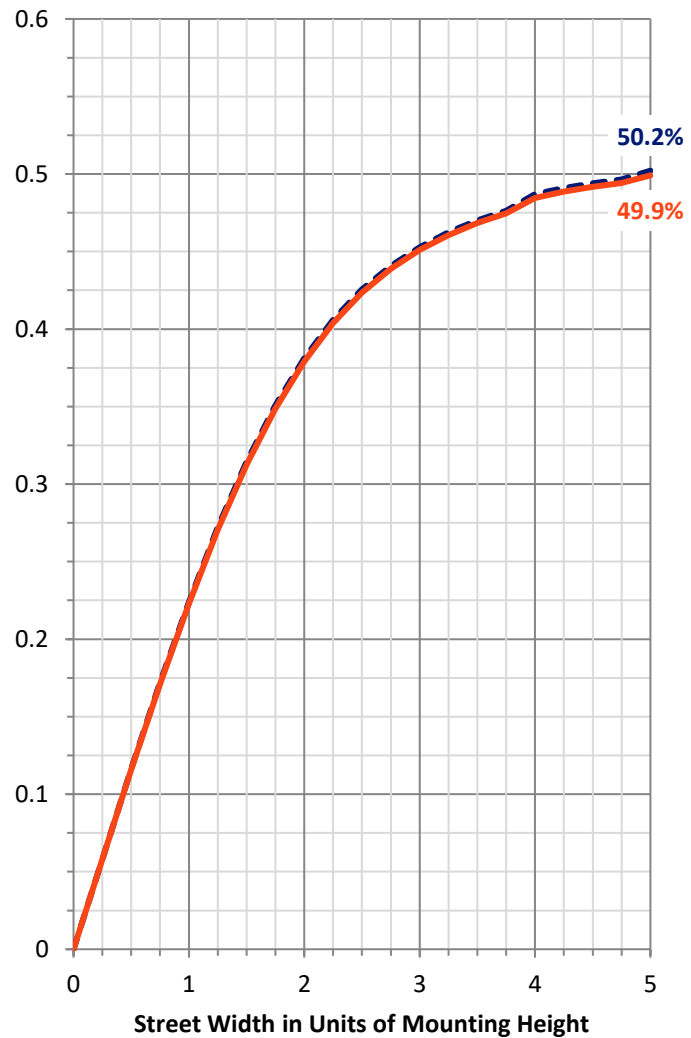
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.8	0.0	1182.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1182.8	0.0	1182.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2365.6	0.0	2365.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.5
10°-20°	43.6	1.8
20°-30°	88.2	3.7
30°-40°	147.9	6.3
40°-50°	260.8	11.0
50°-60°	460.0	19.4
60°-70°	702.3	29.7
70°-80°	586.8	24.8
80°-90°	63.8	2.7
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°	2365.6	100.0
0°-180°	2365.6	100.0



--- HS — SS

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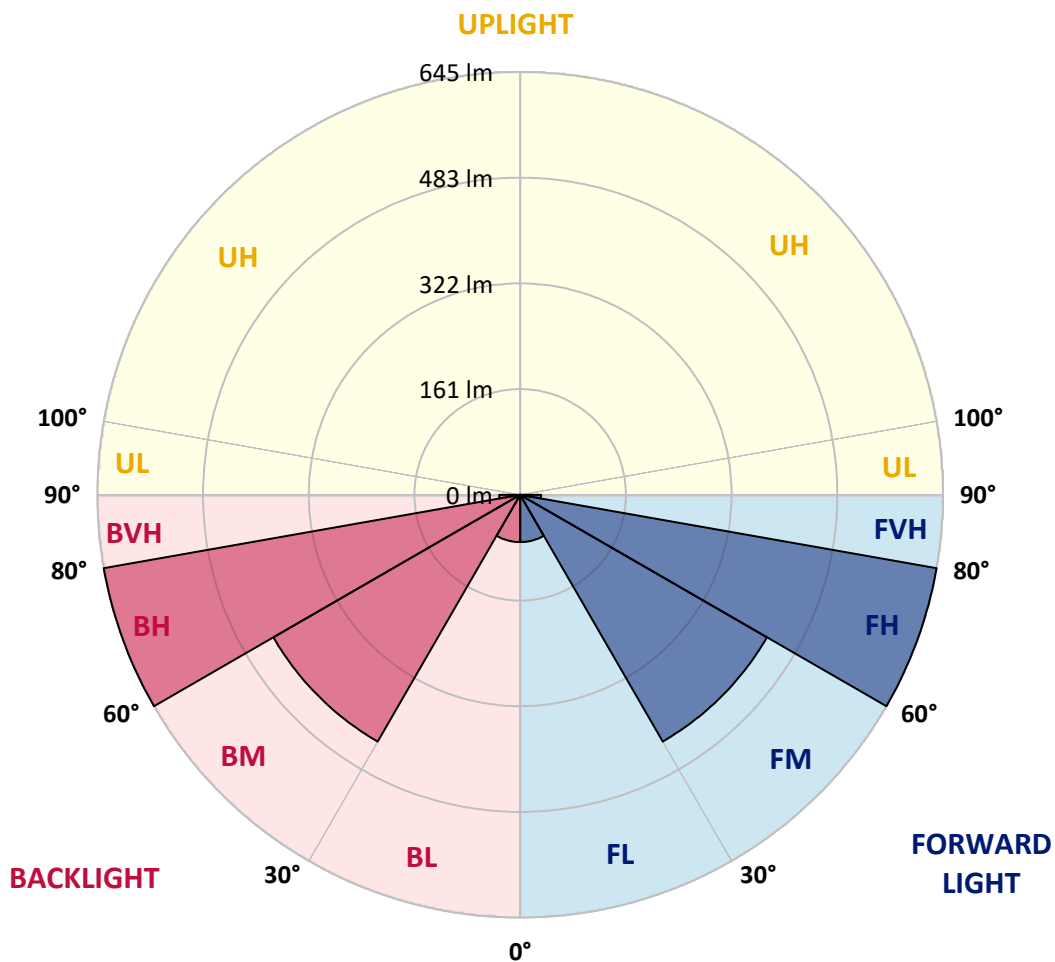
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.0	3.0			
FM	(30°-60°)	434.3	18.4			
FH	(60°-80°)	644.5	27.2			G0/660
FVH	(80°-90°)	31.9	1.3			G1/100
BL	(0°-30°)	72.0	3.0	B0/110		
BM	(30°-60°)	434.3	18.4	B1/1000		
BH	(60°-80°)	644.5	27.2	B2/1000		G0/660
BVH	(80°-90°)	31.9	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	123.8	124.1	123.8	123.8	123.8	123.8	123.8	123.6	123.6	123.6	123.8
5°	126.3	126.6	126.3	126.6	126.6	126.6	126.6	126.3	126.3	126.3	126.3
7.5°	130.3	130.3	130.3	130.5	130.3	130.3	130.5	130.3	130.3	130.3	130.3
10°	136.0	135.7	135.7	135.7	135.7	135.7	136.0	136.0	136.0	135.7	135.7
12.5°	142.9	142.7	142.9	142.9	143.2	143.2	143.2	143.2	143.2	143.2	142.9
15°	151.3	151.3	151.3	151.6	152.1	152.1	151.8	152.1	152.1	152.1	152.1
17.5°	160.7	161.2	160.7	161.0	161.2	161.0	161.5	161.7	162.0	161.7	161.0
20°	170.4	170.6	170.6	170.6	170.6	171.1	171.4	171.4	172.1	171.9	171.6
22.5°	179.6	180.1	180.1	180.3	180.3	181.0	181.0	181.0	181.5	182.0	181.5
25°	189.2	189.0	189.0	189.5	189.7	190.7	190.7	191.2	191.9	192.2	191.7
27.5°	197.9	197.6	197.6	198.4	198.6	199.9	199.9	200.9	201.4	201.6	201.1
30°	207.1	207.1	206.8	207.5	208.3	209.3	209.8	210.8	211.5	211.8	211.3
32.5°	218.0	217.5	217.7	218.2	218.7	219.7	220.4	221.7	222.7	222.9	222.4
35°	230.3	229.6	229.8	230.3	231.1	232.6	233.8	234.5	236.0	236.5	235.5
37.5°	244.0	244.2	244.0	245.2	246.4	248.2	249.7	250.6	252.1	252.9	252.1
40°	263.3	262.5	263.3	264.5	266.5	268.7	271.7	272.4	273.9	275.4	273.7
42.5°	288.3	287.8	289.5	290.5	292.7	295.2	298.9	300.9	303.1	304.1	302.7
45°	321.0	321.0	323.0	323.2	326.7	329.9	335.1	337.6	341.8	341.8	341.8
47.5°	357.1	358.6	359.9	362.3	364.8	370.8	376.0	381.4	385.4	385.9	385.1
50°	394.5	396.0	399.7	403.2	408.7	416.1	421.8	429.0	432.4	435.4	434.4
52.5°	435.9	436.1	440.6	445.1	453.0	461.2	470.3	477.8	483.9	486.7	484.4
55°	481.2	481.7	485.7	490.4	499.3	508.7	520.1	527.8	535.7	540.7	537.0
57.5°	530.3	530.5	534.5	540.2	550.8	560.2	571.1	582.0	589.5	593.9	591.4
60°	584.5	585.7	588.7	595.9	606.1	616.0	626.9	636.5	645.2	649.9	647.4
62.5°	642.5	643.7	647.9	653.6	662.5	673.4	683.8	696.2	703.4	708.6	704.9
65°	681.3	683.6	690.3	697.9	711.1	725.2	737.3	754.2	762.8	769.0	765.6
67.5°	683.8	685.1	693.2	704.9	722.5	743.8	768.5	794.8	811.9	820.0	814.1
69°	667.0	668.7	676.6	689.8	709.3	734.1	763.6	796.3	822.5	834.7	829.0
70°	647.9	651.6	660.3	674.7	693.7	719.7	750.2	785.1	815.8	832.4	828.2
72.5°	607.8	608.8	614.5	625.9	640.5	662.0	690.8	723.7	752.9	776.7	780.2
75°	539.4	542.6	546.9	554.5	562.0	577.6	596.9	619.4	636.5	654.8	655.6
77.5°	407.7	417.3	420.5	422.3	425.5	437.9	454.7	474.3	488.4	491.4	490.9
80°	183.0	195.9	198.9	213.0	221.7	242.2	268.0	297.9	318.0	320.2	314.8
82.5°	35.9	38.4	44.8	56.0	76.3	88.4	105.3	126.3	145.6	156.8	150.1
85°	11.9	12.6	14.6	16.1	18.6	21.1	25.5	31.7	39.4	43.6	38.9
87.5°	4.7	4.7	5.4	5.9	6.4	6.4	6.4	5.9	5.7	4.7	4.2
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°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6
5°	126.3	126.1	126.1	125.8	125.8	125.8	125.8	125.8
7.5°	130.0	129.8	129.5	129.8	129.5	129.5	129.5	129.5
10°	135.7	135.2	135.0	134.7	134.7	134.7	134.5	134.5
12.5°	142.4	142.4	142.2	141.9	141.4	141.7	141.4	140.9
15°	151.6	151.1	150.8	150.6	150.1	150.1	150.1	149.8
17.5°	160.7	160.2	160.2	159.5	159.3	159.3	159.3	159.5
20°	170.9	170.1	169.7	169.2	168.7	168.9	168.4	168.9
22.5°	181.0	180.1	179.6	178.8	178.1	178.1	177.8	177.3
25°	191.0	189.7	189.2	188.5	187.5	187.5	187.0	186.5
27.5°	200.4	199.1	198.6	197.1	196.2	195.9	195.4	195.2
30°	210.8	209.3	208.5	207.1	205.6	205.3	204.6	204.6
32.5°	221.7	220.2	219.7	217.5	216.2	216.2	215.7	215.2
35°	235.3	233.1	232.6	230.3	228.6	228.6	228.1	228.4
37.5°	251.4	249.7	247.9	246.2	244.2	244.0	243.5	243.0
40°	272.9	271.0	269.0	266.5	264.8	264.3	263.5	263.3
42.5°	301.7	299.7	295.7	293.7	292.0	290.5	290.3	290.0
45°	338.3	335.8	333.1	329.4	327.2	324.0	323.5	322.2
47.5°	382.4	377.7	373.0	369.8	366.3	362.6	361.8	359.9
50°	429.2	425.5	417.6	412.4	406.9	403.2	400.7	400.0
52.5°	479.5	472.6	464.6	457.7	449.8	444.8	440.4	439.1
55°	532.0	522.1	512.2	504.0	496.1	490.1	485.9	483.9
57.5°	584.5	573.6	562.7	553.8	547.1	539.4	535.2	534.2
60°	639.2	628.8	617.7	608.8	600.6	593.9	591.4	586.7
62.5°	697.2	686.3	675.9	667.2	656.8	652.1	647.9	645.2
65°	754.2	741.5	728.4	719.2	708.8	702.1	696.9	693.2
67.5°	798.2	779.2	761.6	746.2	732.1	721.7	715.0	711.6
69°	810.6	786.9	764.3	744.3	727.7	716.0	708.6	705.1
70°	809.1	782.9	758.1	736.1	718.0	705.6	698.4	692.0
72.5°	763.3	739.3	711.8	687.8	671.4	659.5	652.4	648.9
75°	651.4	635.3	615.5	596.9	585.0	578.1	569.1	569.4
77.5°	474.3	474.8	461.4	442.3	429.0	426.5	422.5	418.6
80°	294.2	270.7	255.3	234.8	219.7	206.6	200.9	188.5
82.5°	135.7	106.0	82.2	62.2	47.8	37.4	32.7	26.7
85°	30.2	23.0	19.1	15.4	13.1	12.1	9.9	9.2
87.5°	4.2	3.7	3.5	3.2	2.7	2.0	1.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)