

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: P140267

Luminaire Tested: **ECM-F01-LED-E1-5MQ-7060**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140267  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-F01-LED-E1-5MQ-7060  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (7) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2586.8 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

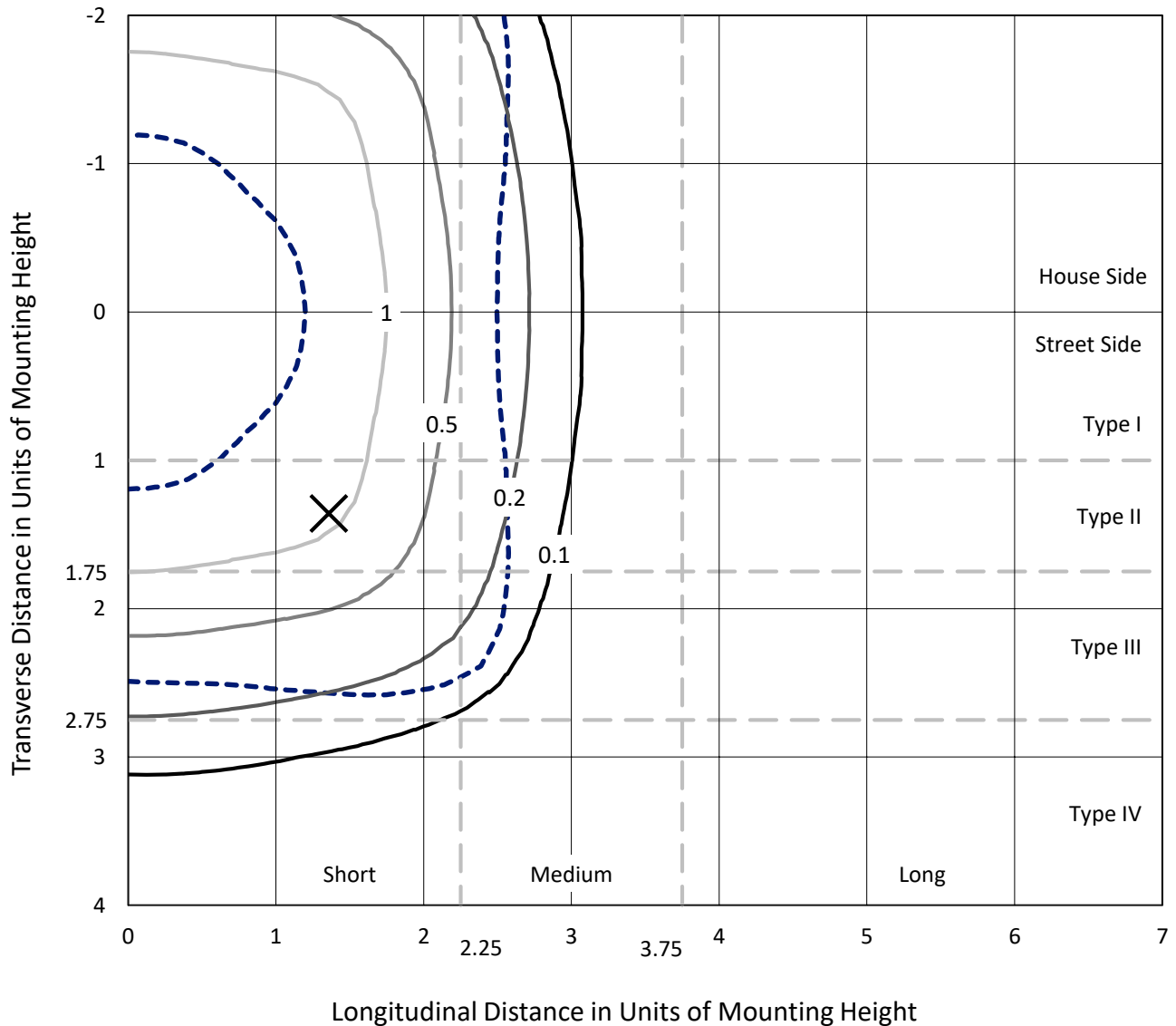
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

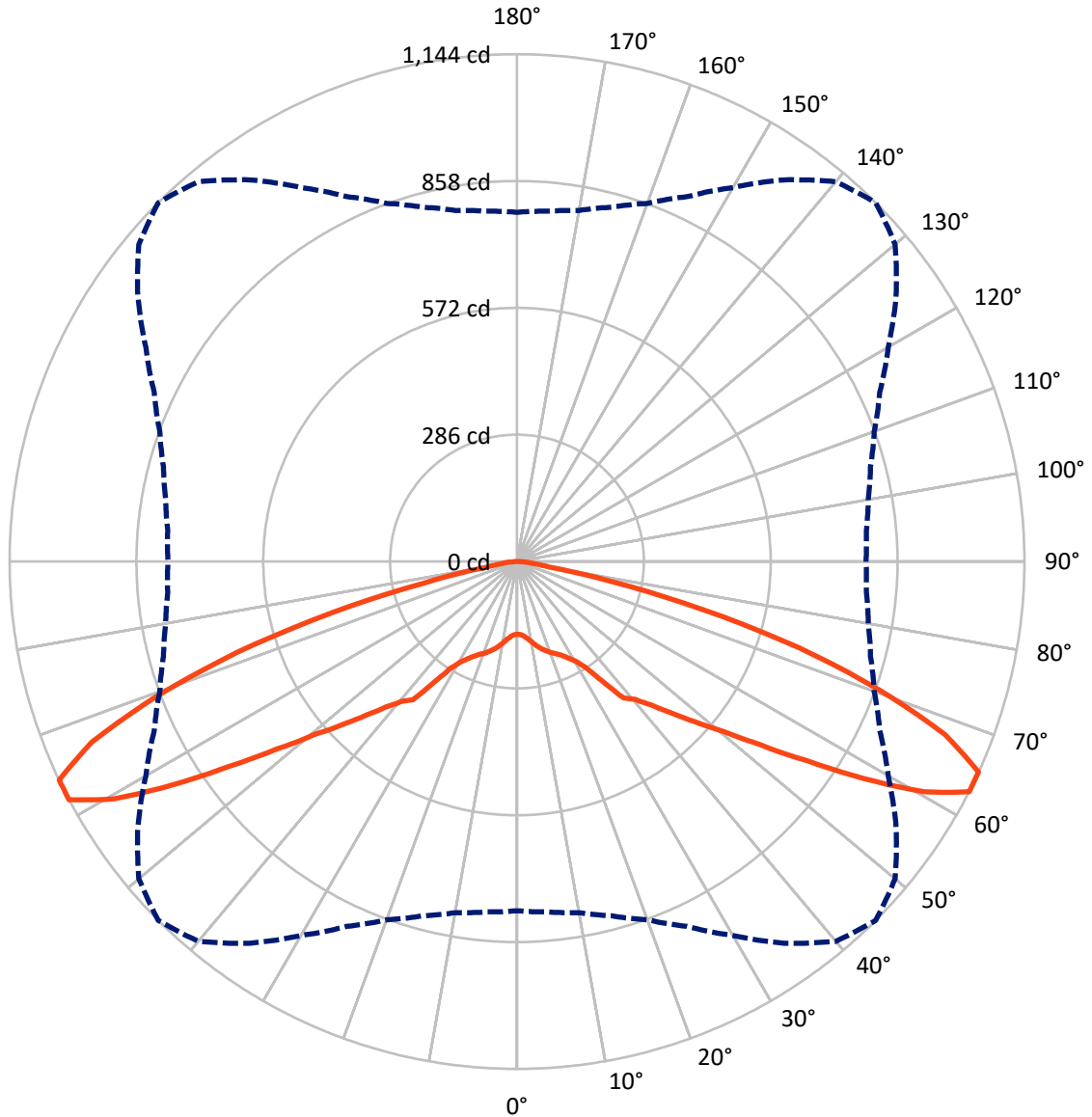
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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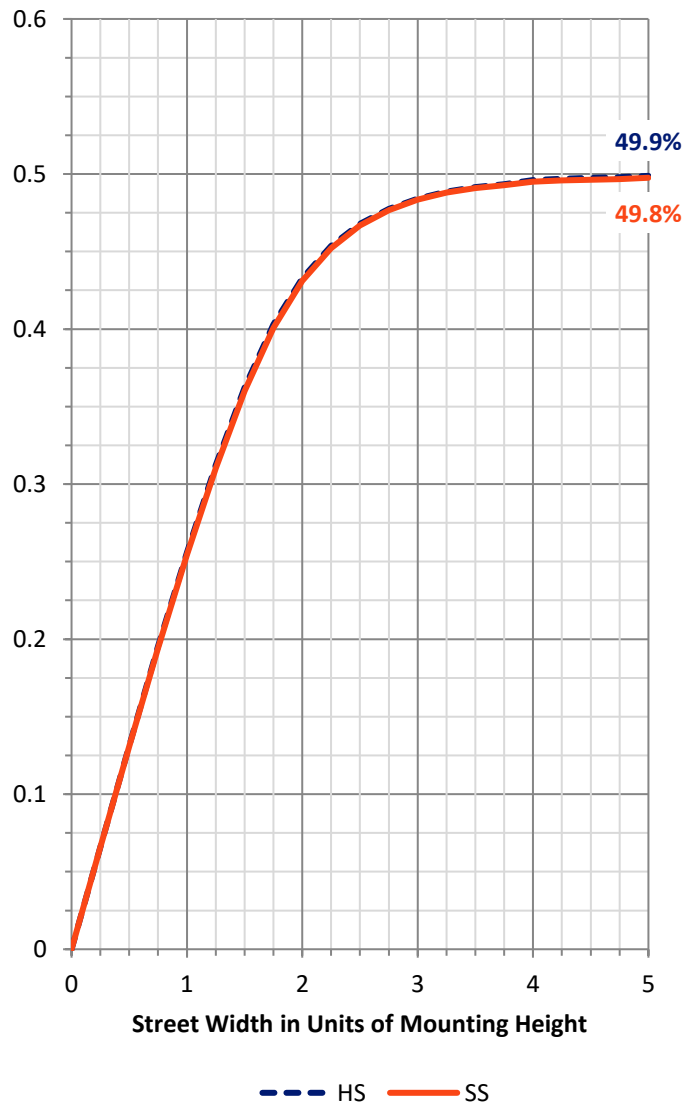
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1293.4	0.0	1293.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1293.4	0.0	1293.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2586.8	0.0	2586.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.7	0.6
10°-20°	58.1	2.2
20°-30°	111.7	4.3
30°-40°	214.8	8.3
40°-50°	373.8	14.5
50°-60°	671.5	26.0
60°-70°	823.1	31.8
70°-80°	290.3	11.2
80°-90°	26.8	1.0
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°	2586.8	100.0
0°-180°	2586.8	100.0



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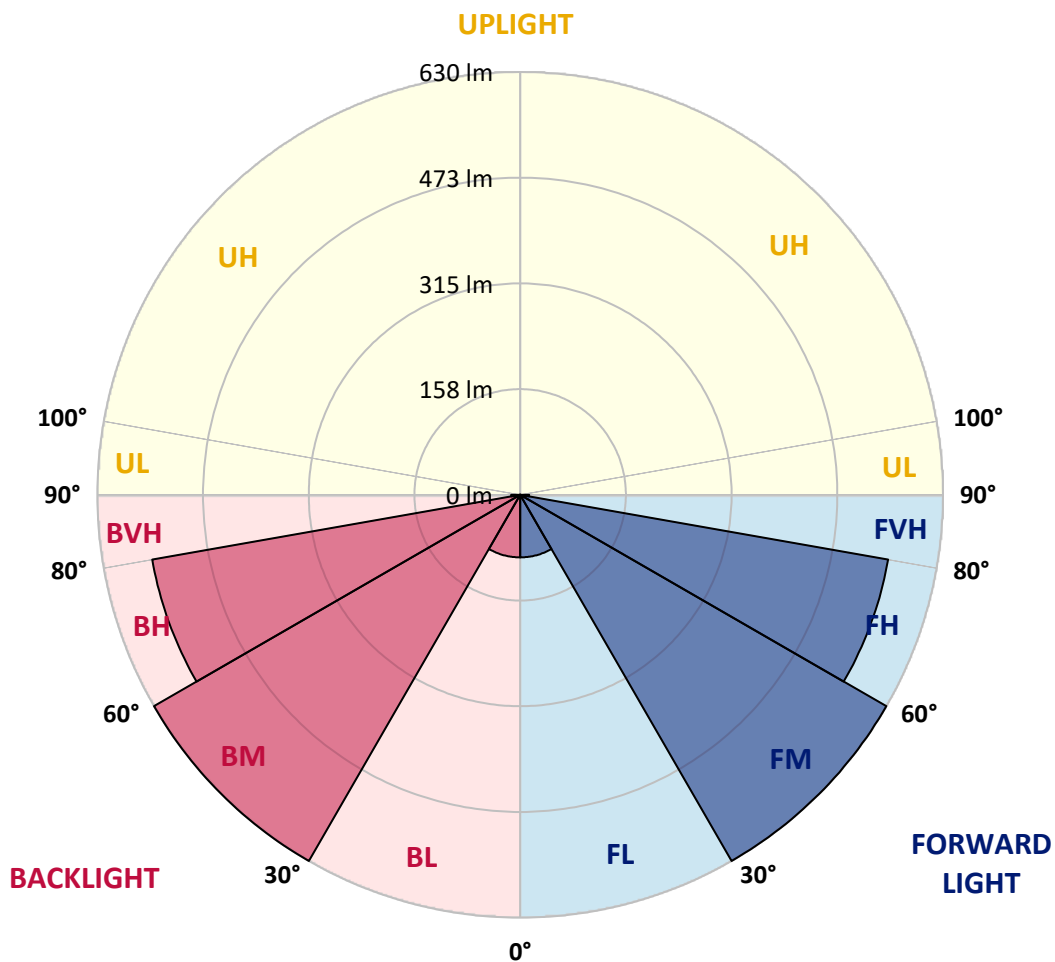
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	93.2	3.6			
FM (30°-60°)	630.0	24.4			
FH (60°-80°)	556.7	21.5			G0/660
FVH (80°-90°)	13.4	0.5			G1/100
BL (0°-30°)	93.2	3.6	B0/110		
BM (30°-60°)	630.0	24.4	B1/1000		
BH (60°-80°)	556.7	21.5	B2/1000		G0/660
BVH (80°-90°)	13.4	0.5			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°	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1
2.5°	166.0	166.0	165.7	165.5	165.5	165.5	165.2	165.2	165.5	164.9	164.9
5°	170.3	170.5	170.3	170.0	169.7	169.7	169.4	169.4	169.7	169.1	168.9
7.5°	178.2	178.5	177.9	177.6	177.3	177.0	176.8	176.5	176.8	175.9	175.9
10°	188.3	188.3	188.3	187.2	187.2	186.4	186.1	185.5	185.8	184.9	184.9
12.5°	198.5	198.5	198.2	197.7	197.4	196.8	196.2	196.2	195.7	194.5	194.0
15°	207.5	207.8	207.5	206.7	206.4	205.6	205.6	205.0	204.1	203.6	203.0
17.5°	216.0	216.3	215.4	215.2	214.3	213.7	213.2	212.9	212.3	211.5	211.2
20°	224.2	223.9	223.1	221.9	221.4	220.8	220.2	220.0	219.7	219.1	219.1
22.5°	232.1	232.1	231.3	229.6	228.4	227.9	227.0	226.5	225.9	225.6	226.2
25°	244.0	243.7	242.0	240.3	238.3	236.6	235.5	235.2	234.6	234.6	234.9
27.5°	259.2	258.6	256.1	253.8	251.6	249.3	247.9	246.8	246.5	246.2	246.2
30°	278.4	277.6	275.3	272.5	269.9	267.1	264.3	263.4	262.0	260.9	262.9
32.5°	315.1	315.7	311.2	305.5	299.9	294.5	289.7	286.0	283.8	284.1	284.1
35°	355.5	355.8	353.8	351.5	349.8	346.7	341.4	336.9	333.5	329.8	331.5
37.5°	373.0	373.3	371.6	371.3	372.4	374.4	379.8	383.7	389.7	390.5	388.8
40°	403.8	402.4	400.1	399.5	398.7	401.5	403.8	405.7	406.6	408.3	406.6
42.5°	436.0	435.4	433.7	431.7	431.7	432.3	436.0	439.1	441.0	441.3	441.0
45°	472.1	471.3	469.8	469.6	470.4	473.0	475.5	479.4	485.7	485.9	485.7
47.5°	511.9	512.5	510.2	511.1	512.5	516.7	523.8	530.3	537.0	539.6	536.5
50°	566.4	564.4	564.4	563.6	567.3	573.5	581.9	589.6	599.2	601.4	596.6
52.5°	640.4	636.2	637.0	634.7	636.7	642.4	656.2	668.1	680.2	686.1	676.8
55°	729.3	722.3	723.1	725.4	727.1	736.7	754.2	767.7	790.6	792.6	781.9
57.5°	802.2	800.2	801.3	806.7	817.4	834.1	856.1	888.9	917.1	923.9	912.3
60°	828.7	830.1	838.0	852.2	872.5	902.1	945.1	996.2	1041.1	1054.6	1037.1
62.5°	787.5	793.1	803.9	827.3	859.5	907.8	973.6	1050.7	1117.9	1144.1	1112.8
65°	707.0	710.7	728.2	748.3	789.8	845.1	925.9	1026.1	1108.8	1143.6	1108.5
67.5°	601.4	608.5	623.7	648.6	684.4	740.6	825.3	927.8	1010.8	1041.3	1010.6
70°	482.8	485.9	495.5	515.0	552.3	602.0	674.6	766.3	847.1	866.3	841.7
72.5°	334.9	341.1	349.3	367.1	390.5	432.6	492.4	559.9	624.9	664.7	628.5
75°	144.3	136.1	154.2	172.0	200.8	239.7	286.6	341.9	406.3	432.9	397.3
77.5°	43.2	42.9	45.7	50.8	61.0	80.8	113.2	150.5	200.2	217.4	186.6
80°	35.3	36.4	37.6	38.7	39.8	41.2	43.8	51.1	62.7	74.0	60.1
82.5°	29.9	31.3	34.4	36.1	37.0	37.3	37.3	37.0	35.6	35.0	34.7
85°	22.6	24.8	29.1	31.6	31.6	31.6	31.6	30.8	28.8	25.4	28.2
87.5°	7.6	10.2	16.9	18.1	18.6	17.2	18.1	18.4	15.2	11.6	14.7
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°	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1
2.5°	164.9	164.9	164.9	165.2	164.9	164.9	164.9	164.9
5°	169.1	168.9	169.1	168.9	169.1	169.1	168.9	169.1
7.5°	175.6	175.6	175.9	175.9	175.6	175.6	175.6	175.6
10°	184.4	183.8	184.1	184.1	184.1	183.8	183.8	183.5
12.5°	193.4	192.9	192.9	192.9	192.9	192.6	192.9	192.9
15°	201.9	201.3	200.8	200.8	201.0	201.3	201.3	201.0
17.5°	210.1	209.5	208.7	208.7	208.4	208.9	209.5	209.2
20°	218.3	218.0	216.6	216.6	216.6	217.1	217.4	218.3
22.5°	226.5	226.2	225.0	224.8	225.0	226.2	227.0	227.0
25°	235.2	235.8	235.5	235.5	236.1	237.7	238.6	239.7
27.5°	247.6	248.8	249.0	250.2	250.5	252.4	253.8	255.5
30°	263.7	265.7	266.8	268.8	270.2	271.3	273.3	274.7
32.5°	286.0	290.8	296.5	303.0	305.8	310.9	313.1	313.7
35°	337.4	342.5	347.3	350.1	349.0	350.4	350.4	351.5
37.5°	383.7	378.6	374.4	373.6	371.3	370.5	370.7	371.6
40°	405.2	402.6	400.9	401.8	400.7	399.8	400.4	400.7
42.5°	439.9	436.0	434.5	434.3	433.7	434.3	435.7	435.1
45°	480.6	475.5	473.5	473.2	472.4	472.1	472.7	473.8
47.5°	529.4	523.2	517.0	515.0	515.0	513.3	514.5	512.8
50°	589.3	579.1	572.6	569.0	566.7	564.2	566.4	562.7
52.5°	668.1	653.7	646.6	641.8	635.3	635.6	636.2	634.7
55°	767.5	751.6	737.8	728.5	724.5	722.3	721.7	726.2
57.5°	881.8	853.9	831.8	815.5	809.2	800.8	796.8	796.8
60°	990.5	939.7	895.9	868.5	848.2	833.8	824.2	821.4
62.5°	1043.6	966.5	902.4	857.2	825.1	804.4	790.6	786.9
65°	1020.7	922.7	847.4	796.5	759.3	732.7	716.6	712.1
67.5°	928.7	826.2	746.8	695.7	655.6	626.8	614.7	609.6
70°	771.1	677.1	608.2	558.2	516.4	492.2	475.5	468.7
72.5°	554.3	482.8	419.6	376.7	339.1	326.4	303.8	301.6
75°	327.5	265.4	213.2	180.4	146.8	128.5	118.0	106.7
77.5°	133.3	95.2	71.4	53.9	46.3	42.1	40.1	39.5
80°	45.5	40.7	38.4	37.6	36.4	35.9	34.4	33.3
82.5°	35.9	35.6	34.4	34.2	33.0	31.3	28.5	26.8
85°	29.9	29.4	28.0	27.7	26.8	24.6	21.5	19.5
87.5°	16.9	15.5	14.1	14.4	13.6	11.9	8.8	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)